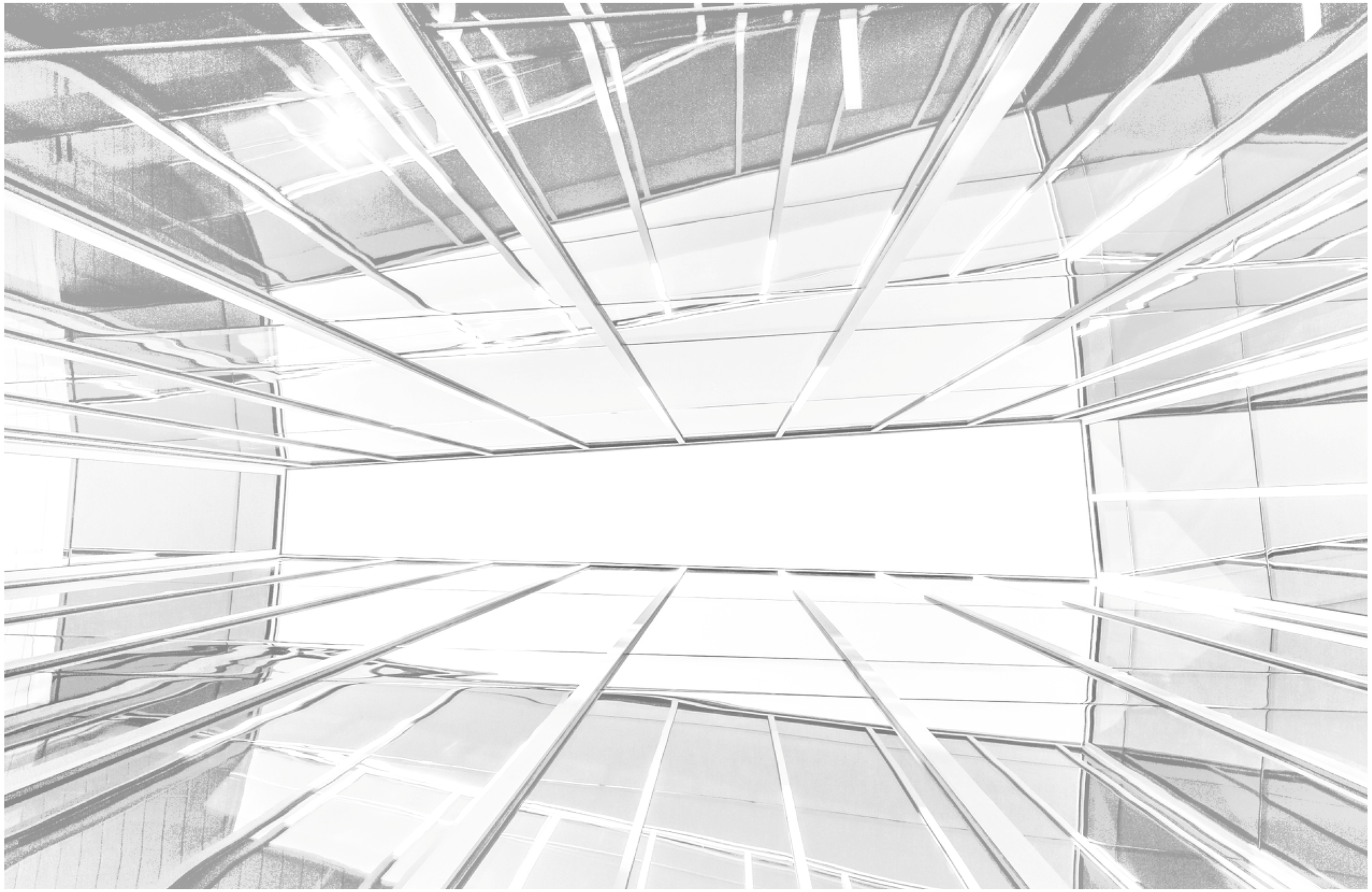
THE LINE SHOWN ABOVE IS ONE INCH LONG ON ORIGINAL PLANS. IF NOT ONE INCH ON THIS SHEET IT'S ORIGINAL PAGE SIZE

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

LUTHER BURBANK HIGH SCHOOL CAFETERIA MODERNIZATION

3500 FLORIN RD
SACRAMENTO, CA 95823



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AGENCY APPROVAL:

REVIEWING AGENCIES STAMP HERE

Sacramento City UNIFIED SCHOOL DISTRICT

HMC Architects

3186-071-000

LICENSED ARCHITECT MICHAEL CHESTER SMITH C-25193 REN. 07/31/25 STATE OF CALIFORNIA

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SACRAMENTO, CA, 95816
916 368 7990 / www.hmcarchitects.com

PROJECT TEAM

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SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
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916.643.7400

ARCHITECT
HMC ARCHITECTS
2101 CAPITOL AVE, SUITE 100, SACRAMENTO, CA 95816
916.368.7990

STRUCTURAL
RW CONSULTING ENGINEERS INC
1450 HARBOR BLVD, WEST SACRAMENTO, CA 95691
916.229.8345

MECHANICAL, PLUMBING, ELECTRICAL
LP CONSULTING ENGINEERS
1209 PLEASANT GROVE BLVD., ROSEVILLE, CA 95678
916.771.0778

FOOD SERVICE
AMD FOOD SERVICE DESIGN
PO BOX 163 GARDEN VALLEY, CA 95633
530.333.4606

FACILITY:
LUTHER BURBANK HIGH SCHOOL
3500 FLORIN RD
SACRAMENTO, CA 95823

PROJECT:
LUTHER BURBANK HIGH SCHOOL CAFETERIA MODERNIZATION

SHEET NAME:
COVER SHEET

DSA SUBMITTAL

DATE: **2024.06.28** | CLIENT PROJ NO: **3186071000**

SHEET:

G0.10

PLEASE RECYCLE

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS SHEETS ORIGINAL PAGE SIZE

GENERAL NOTES

1. CONSTRUCTION DOCUMENTS DESCRIBE THE PRODUCTS, SYSTEMS, QUANTITIES, CONFIGURATION, AND PERFORMANCE SPECIFICATIONS THAT DELIVER THE OVERALL DESIGN INTENT OF THE PROJECT.
2. THE CONSTRUCTION DOCUMENT DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY, AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY BOTH.
3. PERFORMANCE BY THE CONSTRUCTION TEAM SHALL BE CONSISTENT WITH THE CONSTRUCTION DRAWINGS AND SPECIFICATIONS AS NECESSARY TO DELIVER THE INDICATED RESULTS OF THE DESIGN INTENT.
4. VERIFY ALL DIMENSIONS, LOCATIONS OF EXISTING UTILITIES, AND CONDITIONS ON THE JOB SITE PRIOR TO THE START OF WORK OR PORTIONS OF THE WORK. NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN THE ACTUAL FIELD CONDITIONS AND THE CONSTRUCTION DOCUMENTS. EXISTING CONDITIONS ARE INDICATED AS A RESULT OF FIELD OBSERVATIONS, INFORMATION SHOWN ON AVAILABLE DOCUMENTS AND FIELD CONDITIONS AT THE TIME OF PREPARATION.
5. ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH ALL GOVERNING CODES, ORDINANCES, REGULATIONS AND LAWS.
6. THE DESIGN ADEQUACY AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS AND SCAFFOLDING IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
7. WHERE ANY CONFLICT OCCURS BETWEEN THE REQUIREMENTS OF LAWS, CODES, ORDINANCES, RULES AND REGULATIONS, THE MOST STRINGENT SHALL GOVERN.
8. IN NO CASE SHALL WORKING DIMENSIONS BE SCALED FROM PLANS, SECTIONS OR DETAILS ON THE DRAWINGS.
9. DETAILS MARKED 'TYPICAL' SHALL APPLY IN ALL CASES UNLESS SPECIFICALLY NOTED OTHERWISE.
10. ENACT ALL MEASURES TO PROTECT AND SAFEGUARD ALL EXISTING ELEMENTS TO REMAIN FROM BEING DAMAGED. REPLACE OR REPAIR EXISTING ELEMENTS DAMAGED BY THE EXECUTION OF THIS CONTRACT TO EQUAL OR BETTER CONDITION.
11. PRIOR TO THE START OF WORK THE CONTRACTOR SHALL COORDINATE BETWEEN THE REQUIREMENTS OF ALL DISCIPLINES HEREIN AND BETWEEN THE REQUIREMENTS OF ALL DRAWINGS AND SPECIFICATIONS IN ORDER THAT ALL ITEMS SATISFACTORILY RELATE TO ONE ANOTHER. NOTIFY ARCHITECT IMMEDIATELY REGARDING ANY ITEMS THAT CANNOT BE COORDINATED.
12. CONTRACTOR SHALL EXCERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THIS SITE TO AVOID EXISTING DUCTS, PIPING, CONDUIT, ETC. AND TO PREVENT HAZARD TO PERSONNEL AND/OR TO EXISTING UNDERGROUND UTILITIES OR STRUCTURES. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT SHOULD SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED. THESE DRAWINGS AND SPECIFICATIONS DO NOT INCLUDE THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.
13. CHANGES TO THE APPROVED DRAWINGS AND/OR SPECIFICATIONS SHALL BE MADE BY ADDENDA OR A CHANGE ORDER.
14. CUTTING, BORING, SAWCUTTING OR DRILLING THROUGH THE EXISTING OR NEW STRUCTURAL ELEMENTS SHALL NOT TO BE STARTED UNTIL THE DETAILS HAVE BEEN REVIEWED AND APPROVED BY THE ARCHITECT, AND STRUCTURAL ENGINEER OF RECORD.
15. ALL WORK SHALL CONFORM TO 2022 EDITION TITLE 24, CALIFORNIA CODE OF REGULATION (CCR)
16. THE LIMIT OF WORK LINE SHOWS THESE DRAWINGS IS AN APPROXIMATE LIMIT OF WORK ONLY. REFER TO CONSULTANT DRAWINGS FOR ADDITIONAL WORK, INCLUDING BUT NOT LIMITED TO INSTALLATION OF CONDUIT, MANHOLES, PULLBOXES, ETC WHICH ARE TO BE PART OF THIS WORK, ALTHOUGH OCCURING OUTSIDE OF SHOWN LIMIT OF WORK LINES.
17. FABRICATION AND INSTALLATION OF DEFERRED SUBMITTAL ITEMS SHALL NOT BE STARTED UNTIL CONTRACTOR'S DRAWINGS, SPECIFICATIONS, AND ENGINEERING CALCULATIONS FOR THE ACTUAL SYSTEMS TO BE INSTALLED HAVE BEEN ACCEPTED AND SIGNED BY THE ARCHITECT OR STRUCTURAL ENGINEER AND APPROVED BY THE DSA. LIST DEFERRED SUBMITTAL ITEMS FOR THIS PROJECT.
18. CHANGE TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY DSA, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24 CCR.
19. A "DSA CERTIFIED" PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR. INSPECTOR TO BE CLASS 1.
20. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT. THE REPORTS SHALL BE SUBMITTED TO ARCHITECT OF RECORD, STRUCTURAL ENGINEER OF RECORD, OWNER, INSPECTOR OR RECORD, AND THE DSA FIELD ENGINEER. THE REPORTS OF ANY FAILURES OF TESTS AND INSPECTIONS ARE TO BE SUBMITTED TO DSA DISTRICT STRUCTURAL ENGINEER.
21. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
22. SAFETY DURING CONSTRUCTION SHALL COMPLY WITH CFC CHAPTER 33.
23. 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, CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE DSA APPROVED CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR,, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(C), PART 1, TITLE 24, CCR)
24. CONTRACTOR IS TO REVIEW AND COMPLY WITH ALL REQUIREMENTS AND MITIGATION MEASURES SET FORTH IN BOTH THE ENVIRONMENTAL IMPACT REPORT (ADDENDUM TO THE ENVIRONMENTAL IMPACT REPORT | SCH NO. 2002071120) INCLUDING ATTACHED BIOLOGICAL RESOURCES TECHNICAL REPORT.
25. NO DUMPING OR PLACING OF ANY DIRT OR DEBRIS SHALL BE ALLOWED OUTSIDE OF THE CONTRACTORS LIMIT OF WORK AREA.

CODES

PARTIAL LIST OF APPLICABLE CODES

2022	CALIFORNIA ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
2022	CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R. (2021 INTERNATIONAL BUILDING CODE VOLUMES 1 & 2 AND 2022 CALIFORNIA AMENDMENTS)
2022	CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R. (2020 NATIONAL ELECTRICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022	CALIFORNIA MECHANICAL CODE (CMC) PART 4, TITLE 24 C.C.R. (2021 UNIFORM MECHANICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022	CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R. (2021 UNIFORM PLUMBING CODE AND 2022 CALIFORNIA AMENDMENTS)
2022	CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 C.C.R.
2022	CALIFORNIA HISTORICAL BUILDING CODE (CHBC), PART 8, TITLE 24 C.C.R.
2022	CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R. (2021 INTERNATIONAL FIRE CODE AND 2022 CALIFORNIA AMENDMENTS)
2022	CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 C.C.R. (2021 INTERNATIONAL EXISTING CODE AND 2022 CALIFORNIA AMENDMENTS)
2022	CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 C.C.R.
2022	CALIFORNIA REFERENCED STANDARDS, PART 12,TITLE 24 C.C.R.
TITLE 19	C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.
2019	ASME A17.1/B44-19 SAFETY CODE FOR ELEVATORS AND ESCALATORS
2020	ASME 18.1 - SAFETY STANDARD FOR PLATFORM LIFTS AND STAIRWAY CHAIR LIFTS

PARTIAL LIST OF APPLICABLE STANDARDS

NFPA 13	STANDARD FOR AUTOMATIC FIRE SPRINKLER SYSTEMS (CA AMENDED)	2022 ED.
NFPA 14	STANDARD FOR STANDPIPE AND HOSE SYSTEMS (CA AMENDED)	2019 ED.
NFPA 17	STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS	2021 ED.
NFPA 17A	STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS	2021 ED.
NFPA 20	STANDARD FOR STATIONARY PUMPS FOR FIRE PROTECTION	2019 ED.
NFPA 22	STANDARD FOR WATER TANKS FOR PRIVATE FIRE PROTECTION	2013 ED.
NFPA 24	STANDARD FOR THE INSTALLATION OF PRIVATE FIRE MAINS AND THEIR APPURTENANCES (CA AMENDED)	2019 ED.
NFPA 72	NATIONAL FIRE ALARM & SIGNALING CODE (CA AMENDED)	2022 ED.
NFPA 80	STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES	2019 ED.
NFPA 2001	STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (CA AMENDED)	2018 ED.
UL 300	STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT	2005 (R2014)
UL 464	AUDIBLE SIGNAL APPLIANCES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES	2003 ED.
UL 521	STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS	1999 ED. (R2005)
UL 1971	STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED	2002 ED. (R2018)
ICC 300	STANDARD FOR BLEACHERS, FOLDING AND TELESCOPING SEATING AND GRANDSTANDS	2017 ED.

FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2022 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80.
SEE CALIFORNIA BUILDING CODE, CHAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO NFPA STANDARDS.

STATEMENT OF GENERAL CONFORMANCE

(X) THE DRAWINGS OR SHEETS LISTED ON THE INDEX SHEET WITH AN (*)
( ) THIS DRAWING PAGE OF SPECIFICATIONS/CALCULATIONS

HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND/OR AUTHORIZED TO PREPARE SUCH DRAWINGS IN THIS STATE. IT HAS BEEN EXAMINED BY ME FOR:

1) DESIGN INTENT AND APPEARS TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS AND THE PROJECT SPECIFICATIONS PREPARED BY ME, AND
2) COORDINATION WITH MY PLANS AND SPECIFICATIONS AND IS ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT.

THE STATEMENT OF GENERAL CONFORMANCE "SHALL NOT BE CONSTRUED AS RELIEVING ME OF MY RIGHTS, DUTIES, AND RESPONSIBILITIES UNDER SECTIONS 17302 AND 81138 OF THE EDUCATION CODE AND SECTIONS 4-336, 4-341 AND 4-344" OF TITLE 24, PART 1. (TITLE 24, PART 1, SECTION 4-317 (B))

I CERTIFY THAT:

ALL DRAWINGS OR SHEETS LISTED ON THE SHEET INDEX WITH AN (*) IS/ARE IN GENERAL CONFORMANCE WITH THE PROJECT DESIGN AND HAS/HAVE BEEN COORDINATED WITH THE PROJECT PLANS AND SPECIFICATIONS.

SIGNATURE ______________________ DATE ______________________
ARCHITECT OR ENGINEER DESIGNATED TO BE IN GENERAL RESPONSIBLE CHARGE

MICHAEL RATH
PRINT NAME

C-25193
LICENSE NUMBER

07-31-25
EXPIRATION DATE

MODERNIZATION NOTES

A. SAFETY:
CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR THE CONDITIONS OF THE PREMISES ON WHICH THE WORK IS PERFORMED AND FOR THE SAFETY OF ALL PERSONS AND PROPERTY ON THE SITE BOTH DURING AND OUTSIDE OF THE NORMAL WORKING HOURS, UNTIL SUCH WORK IS ACCEPTED BY THE OWNER.

B. UNDERGROUND SERVICES:
THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES AND/OR UTILITY DISTRICT AS TO THE LOCSTION OF ALL UNDERGROUND FACILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION AND PROTECTION OF EXISITNG UTILITIES AS REQUIRED BY SPECIFICATION SECTION 01010, ARTICLE 1.07, "EXISTING UTILITIES".

C. USE OF BARRICADES AND SITE CONTROLS:
WHEN THE WORK AREA HAS TRENCHES OR DITCHES DEEPER THAN ONE FOOT, THE CONTRACTOR SHALL PROVIDE FENCING AND BARRICADES AND SUCH TRENCHES AND DITCHES SHALL BE COVERED AT THE END OF EACH DAY. THE CONTRACTOR SHALL EXPEDITE THE FILLING AND COMPACTING OF THE TRENCHES AND DITCHES.

D. QUANTITIES:
MATERIAL QUANTITIES IF ANY NOTED ON THESE PLANS ARE NOT GUARANTEED CONTRACT QUANTITIES. CONTRACTOR IS TO PERFORM HIS OWN ESTIMATE AND QUANTITY TAKEOFF. CONTRACTOR IS TO PROVIDE ALL MATERIALS NECESSARY TO ACCOMPLISH COMPLETE PROJECT EVEN IF QUANTITIES ARE DIFFERENT FROM THOSE NOTED ON DRAWINGS.

E. PRE-EXISTING CONDITIONS:
THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH EXISITNG SITE CONDITIONS PRIOR TO SUBMITTING A BID. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.

F. NEW/EXISTING:
ALL ITEMS SHOWN AS (E) EXISTING SHALL BE CONSIDERED NEW AND ARE PART OF THIS CONTRACT.

G. EXISTING GRADES:
EXISTING GRADES IF INDICATED ARE APPROX. ONLY AND MAY VARY. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ALL FILL MATERIAL NECESSARY TO BRING THE PADS AND PAVING TO FINISH ELEVATIONS SHOWN REGARDLESS OF QUANTITY.

H. IRRIGATION SYSTEM:
CONTRACTOR SHALL BE RESPONSIBLE FOR PROETCTION AND RESTORATION OF IRRIGATION SYSTEMS, INCLUDING LOCATING ANF SECURELY CAPPING LINES SERVING SPRINKLER HEADS WITHIN FIVE FEET OF NEW BUILDINGS, OR NEW PAVED AREAS, SERVICES OF A QUALIFIED IRRIGATION SYSTEM SERVICE COMPANY SHALL BE EMPLOYED AS NECESSARY. TO OBTAIN SATISFACTORY PERFORMANCE FOLLOWING CONSTRUCTION. OPERATIONAL TESTING OF IRRIGATION SYSTEMS SHALL BE A CONDITION OF FINAL ACCEPTANCE OF WORK.

I. RESTORATION, GENERAL:
IN GENERAL, CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORATION OF DISTURBED AREAS AND EQUIPMENT TO FULL FUNCTION, INCLUDING LEVELING AND RESEEDING OF DISTURBED TURF AREAS. UNDERGROUND UTILITIES DAMAGED BY CONSTRUCTION SHALL BE FULLY RESTORED.

J. ADJUSTMENT TO GRADE:
RE-ESTABLISH ALL EXISITNG UTILITY BOXES, MANHOLES, CLEANOUTS, ETC. IN AREAS OF WORK TO FINISH GRADE.

K. DESIGNATED DISPOSAL AREAS:
THE CONTRACTOR SHALL REMOVE ALL EXCESS SOIL AND DEBRIS FROM THE PROJECT SITE.

L. FIRE SAFETY:
THE CONTRACTOR SHALL COMPLY WITH CFC CH 33 - FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION.

M. INTENT OF PLANS:
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 SHULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLYING WITH THE TITLE 24 CALIFORNIA CODE OF REGULATIONS. A CONSTRUCTION CHANGE DOCUMENT, OR SEPARATE SET OF PLANS AND SPECIFICATIONS DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE REPAIR OF WORK.

N. DSA REQUIREMENTS:
A DSA CERTIFIED PROJECT INSPECTOR EMLOYED BY THE DISTRICT (OWNER) AND APPROVED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. DUTIED DEFINED OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH LOCAL ORDINANCES.

BUILDING VITALS & AIA 2020 COMMITMENT REPORTING

OVERVIEW
CONDITIONED AREA (sqft): **[AREA]**
UNCONDITIONED AREA (sqft): **[AREA]**

ENERGY
ENERGY MODELING TOOL: **[SOFTWARE]**
DESIGN ENERGY CODE: **[CODE REFERENCE]**
ENERGY START TARGET FINDER EUI (kBtu/sf/yr): **[EUI]**
PROJECT TEAM BASELINE EUI (kBtu/sf/yr): **[EUI]**
PROJECT TEAM GOAL EUI (kBtu/sf/yr): **[EUI]**
PROJECT TEAM PREDICTED EUI @ SD (kBtu/sf/yr): **[EUI]**
PROJECT TEAM PREDICTED EUI @ DD (kBtu/sf/yr): **[EUI]**
PROJECT TEAM PREDICTED EUI @ CD (kBtu/sf/yr): **[EUI]**
LIGHTING POWER DENSITY (watts/sf): **[LPD]**
WINDOW TO WALL RATIO: **[WWR]**
ASHRAE 90.1 APPENDIX G - BASELINE ENGERY MODEL (kBtu/sf/yr): **[EUI]**

WATER
REDUCTION IN POTABLE WATER PER LEED 2009 P1: **[%]**

ATMOSPHERE
CO2 OFFSET: **[TONS]**

SHEET INDEX

GENERAL SHEET

G0.10	COVER SHEET
G0.11	PROJECT DATA SHEET

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PROJECT ANALYSIS

G1.11	SITE PLAN
G1.21	BUILDING CODE ANALYSIS

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ARCHITECTURE

A2.10	DEMOLITION PLAN
A2.11	IMPROVEMENT PLAN
A2.12	FINISH PLAN & SIGNAGE
A3.10	DEMOLITION REFLECTED CEILING PLAN
A3.11	IMPROVEMENT REFLECTED CEILING PLAN
A4.10	DEMOLITION ROOF PLAN
A4.11	IMPROVEMENT ROOF PLAN
A7.11	ENLARGED PLANS & INTERIOR ELEVATIONS
A8.11	INTERIOR ELEVATIONS
A8.12	INTERIOR ELEVATIONS
A8.13	INTERIOR ELEVATIONS
A9.11	DOOR SCHEDULE
A9.31	AIA MATERIALS PLEDGE SCHEDULES
A10.11	WALL DETAILS
A10.21	DOOR DETAILS
A10.31	CEILING DETAILS
A10.61	CASEWORK DETAILS
A10.71	ACCESSIBILITY DETAILS
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A10.91	MISCELLANEOUS DETAILS

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STRUCTURAL*

S0.01	GENERAL NOTES
S2.01	STRUCTURAL PLAN - CAFETERIA - FOUNDATION
S2.02	STRUCTURAL PLAN - CAFETERIA - ROOF FRAMING
S4.01	BUILDING MODERNIZATION

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PLUMBING*

P0.01	PLUMBING LEGEND, NOTES AND SPECIFICATIONS
P0.02	PLUMBING SCHEDULES
P2.01	PLUMBING FLOOR PLAN
P2.02	PLUMBING ENLARGED FLOOR PLAN
P4.01	PLUMBING ROOF PLAN
P7.01	PLUMBING DETAILS
PD2.01	PLUMBING DEMOLITION FLOOR PLAN
PD2.02	PLUMBING DEMOLITION ENLARGED FLOOR PLAN
PD4.01	PLUMBING DEMOLITION ROOF PLAN

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MECHANICAL*

M0.01	MECHANICAL LEGEND, NOTES & SPECIFICATIONS
M0.02	MECHANICAL SCHEDULES
M2.01	MECHANICAL FLOOR PLAN
M4.01	MECHANICAL ROOF PLAN
M5.01	KITCHEN EQUIPMENT DETAILS
M5.02	KITCHEN EQUIPMENT DETAILS
M5.03	KITCHEN EQUIPMENT DETAILS
M6.01	MECHANICAL CONTROLS
M6.02	MECHANICAL CONTROLS
M7.01	MECHANICAL DETAILS
M7.02	MECHANICAL DETAILS
MD2.01	MECHANICAL DEMOLITION FLOOR PLAN
MD4.01	MECHANICAL DEMOLITION ROOF PLAN

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ELECTRICAL*

E0.01	ELECTRICAL SHEET INDEX, ABBREVIATIONS AND NOTES
E0.02	ELECTRICAL SYMBOL LEGEND
E2.01	POWER 1ST FLOOR PLAN
E3.01	LIGHTING 1ST FLOOR PLAN
E4.01	ELECTRICAL ROOF PLAN
E5.01	ONE LINE DIAGRAM
E6.01	ELECTRICAL PANEL SCHEDULES
E7.01	ELECTRICAL DETAILS
ED2.01	POWER DEMO 1ST FLOOR PLAN
ED3.01	LIGHTING DEMO1ST FLOOR PLAN
ED4.01	ELECTRICAL DEMO ROOF PLAN

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TITLE 24*

T24.01	TITLE 24 COMPLIANCE
T24.02	TITLE 24 COMPLIANCE
T24.03	TITLE 24 COMPLIANCE

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FIRE ALARM*

FA0.01	FIRE ALARM SHEET INDEX, ABBREVIATIONS, AND NOTES
FA0.03	FIRE ALARM RISER DIAGRAM AND BATTERY CALCULATIONS
FA1.01	FIRE ALARM SITE PLAN
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FA4.01	FIRE ALARM ROOF PLAN
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FOODSERVICE*

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FS1.2	FOOSERVICE EQUIPMENT SCHEDULE
FS2.1	FOODSERVICE EQUIPMENT PLUMBING PLAN
FS2.2	FOODSERVICE EQUIPMENT PLUMBING SCHEDULE
FS3.1	FOODSERVICE EQUIPMENT ELECTRICAL PLAN
FS3.2	FOODSERVICE EQUIPMENT ELECTRICAL SCHEDULE
FS4.1	FOODSERVICE EQUIPMENT MECHANICAL PLAN
FS5.1	FOODSERVICE EQUIPMENT EXHAUST HOOD DETAILS
FS5.2	FOODSERVICE EQUIPMENT EXHAUST HOOD DETAILS
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FS8.1	FOODSERVICE EQUIPMENT ANCHORAGE DETAILS
FS8.2	FOODSERVICE EQUIPMENT ANCHORAGE DETAILS
FS8.3	FOODSERVICE EQUIPMENT ANCHORAGE DETAILS
FS9.1	FOODSERVICE EQUIPMENT SERVING LINE DETAILS
FS9.2	FOODSERVICE EQUIPMENT SERVING LINE DETAILS
FS9.3	FOODSERVICE EQUIPMENT ELEVATIONS

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Grand total: 87

SYMBOL LEGEND

DISCIPLINE	
G	GENERAL
C	CIVIL
L	LANDSCAPE
A	ARCHITECTURE
I	INTERIORS
Q	EQUIPMENT
S	STRUCTURAL
P	PLUMBING
M	MECHANICAL
E	ELECTRICAL
FA	FIRE ALARM
T	TELECOM
AV	AV EQUIPMENT
K	KITCHEN
FP	FIRE PROTECTION

SHEET TYPE	
0	CODE ANALYSIS, NOTES
1	SITE PLAN
2	FLOOR PLAN
3	CEILING PLAN
4	ROOF PLAN
5	EXTERIOR ELEVATIONS
6	SECTIONS
7	ENLARGED PLANS
8	INTERIOR ELEVATIONS
9	SCHEDULES
10	DETAILS

BUILDING LETTER, SEGMENT, (USER DEFINED)
USED ONLY IF REQUIRED. IF NOT, COLUMN IS OMITTED.

ABBREVIATIONS

(E)	EXISTING
AB	ANCHOR BOLT
AC PAVING	ASPHALTIC CONCRETE PAVING
ACC	ACCESS/ACCESSIBLE
ACP	ACOUSTICAL CEILING PANEL
ACT	ACOUSTICAL CEILING TILE
ADJ	ADJACENT/ADJUSTABLE
AFF	ABOVE FINISH FLOOR
AGG	AGGREGATE
AHU	AIR HANDLING UNIT
ARCH	ARCHITECTURAL
ATT	ATTENUATION
AUTO	AUTOMATIC
BD	BOARD
BLCG	BLOCKING
BUR	BUILT UP ROOFING
CABT	CABINET
CF	CUBIC FEET
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
CFOI	CONTRACTOR FURNISHED, OWNER INSTALLED
CG	CORNER GUARD
CJ	CONTROL JOINT
CL	CENTER LINE
CLF	CHAIN LINK FENCE
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CO	CLEANOUT
COL	COLUMN
COMP	COMPRESSION / COMPOSITE
CF	CUBIC FEET
COORD	COORDINATE
CORR	CORRUGATED
CT	CERAMIC TILE
CTSK	COUNTER SKUNK
CW	CURTAINWALL
DEPR	DEPRESSED / DEPRESSION
DF	DRINKING FOUNTAIN
DIM	DIMENSION
DISP	DISPENSER
DS	DOWNSPOUT
DTL	DETAIL
DW	DISHWASHER
E/W	EACH WAY
EIFS SYSTEM	EXTERIOR INSULATION FINISH
EJ	EXPANSION JOINT
ELEC	ELECTRICAL
ELEV	ELEVATION / ELEVATOR
ENCL	ENCLOSE / ENCLOSURE
EOS	EDGE OF SLAB
EP	ELECTRICAL PANEL
EQ	EQUAL
ESC	EXCUTCHEON
EWC	ELECTRIC WATER COOLER
EXP	EXPOSED
FA	FIRE ALARM
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER W/ CABINET
FF	FINISH FLOOR
FG	FINISH GRADE
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FSH	FLAT HEAD SCREW
FIN	FINISH
FLR	FLOOR
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FP	FIREPROOFING
FR	FIRE RATED
FRG	FIRE RATED GLASS
FRP	FIBERGLASS REINFORCED PLASTIC
FRT	FIRE RETARDANT TREATED
FS	FINISH SURFACE
FTG	FOOTING
GB	GRAB BAR
GFRC	GLASS FIBER REINFORCED CONCRETE
GL	GLASS TYPE
GLB	GLUE LAMINATED BEAM
GYP BD	GYPSUM BOARD
GYP PLAS	GYPSUM PLASTIC
HB	HOSE BIBB
HD	HEAVY DUTY
HDR	HEADER
HDWR	HARDWARE
HGT	HEIGHT
HM	HOLLOW METAL
HP	HIGH POINT
HSS	HOLLOW STEEL SECTION
ID	INSIDE DIAMTER
INT	INTERIOR
INV	INVERT
LANDS	LANDSCAPE
LAV	LAVATORY
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LP	LOW POINT
LT WT	LIGHT WEIGHT
LVR	LOUVER
MACH	MACHINE
MB	MACHINE BOLT
MDF	MEDIUM DENSITY FIBERBOARD
MDO	MEDIUM DENSITY OVERLAY
MECH	MECHANICAL
MED	MEDIUM
MEMB	MEMBRANE
MFR	MANUFACTURER
MH	MANHOLE
MO	MASONRY OPENING
MTD	MOUNTED
MTL	METAL
NIC	NOT IN CONTRACT
NR	NON RATED
NRC	NOISE REDUCTION COEFFICIENT
NTS	NOT TO SCALE
O/	OVER
O/A	OVERALL
OC	ON CENTER
OD	OUTSIDE DIAMTER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OFVI	OWNER FURNISHED, VENDOR INSTALLED
OH	OPPOSITE HAND
OPER	OPERABLE
OPNG	OPENING
ORD	OVERFLOW ROOF DRAIN
P/L	PROPERTY LINE
PA	PUBLIC ADDRESS
PAF	POWDER ACTUATED FASTENER PAVING
PCC	PORTLAND CEMENT CONCRETE PAVING
PED	PEDESTRIAN
PERF	PERFORATED
PERIM	PERIMETER
PERP	PERPENDICULAR
PH	PANIC HARDWARE
PIV	POST INDICATOR VALVE
PL	PLATE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLUMB	PLUMBING
PNL	PANEL
PNT	PAINT / PAINTED
POC	POINT OF CONNECTION
POLY ISO	POLYISOCYANURATE
PREFIN	PREFINISHED
PREP	PREP / PREPARATION
PTC	POST TENSIONED CONCRETE
PTD	PAPER TOWEL DISPENSER
PTN	PARTITION
PTS	PNEUMATIC TUBE STATION / SYSTEM
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
QT	QUARRY TILE
R	RADIUS, RISER
RB	RESILIENT BASE
RD	ROOF DRAIN
RECEPT	ECEPTACLE
REF	REFERENCE
REFL	REFLECT(ED), (IVE)
REFL	REFLECT(ED), (IVE)
REFR	REFRIGERATOR
REINF	REINFORCE/REINFORCED/ REINFORCEMENT
REM	REMOVE
RH	ROUND HEAD
RHS	ROUND HEAD SCREW
RO	ROUGH OPENING
ROW	RIGHT OF WAY
SCH	SCHEDULE (FOR PIPE)
SCHED	SCHEDULE / SCHEDULING
SD	STORM DRAIN / SOAP DISPENSER
SECT	SECTION
SG	SAFETY GLASS
SHT	SHEET
SHTG	SHEATHING
SMS	SHEET METAL SCREW
SND	SANITARY NAPKIN DISPOSAL
SOV	SHUT OFF VALVE
SPEC	SPECIFICATIONS
SS	STAINLESS STEEL
STC	SOUND TRAMISSION CLASS
STL	STEEL
STSMS SCREW	SELF TAPPING SHEET METAL
SUSP	SUSPENDED
SV	SHEET VINYL
SYM	SYMMETRICAL
T	TREAD
T&B	TOP AND BOTTOM
TO	TOP OF
TOC	TOP OF CURB / CONCRETE
TOP	TOP OF PARAPET
TOS	TOP OF STEEL
TOW	TOP OF WALL
TPD	TOILET PAPER DISPENSER
TS	TACKABLE SURFACE
U/C	UNDER CABINET (OR COUNTER
UNO	UNLESS NOTED OTHERWISE
UR	URINAL
VAC	VACUUM
VB	VAPOR BARRIER
VCT	VINYL COMPOSITION TILE
VIF	VERIFY IN FIELD
VTR	VENT THROUGH ROOF
VWC	VINYL WALL COVERING
W/	WITH
W/O	WITHOUT
WB	WOOD BASE
WC	WATER CLOSET
WD	WOOD
WDW	WINDOW
WGT	WEIGHT
WH	WATER HEATER
WP	WATERPROOFING/WALL PROTECTION
WR	WATER RESISTANT
WRGB	WATER RESISTANT GYPSUM BOARD
WS	WOOD SCREW
WSCT	WAINSCOT
WWF	WELDED WIRE FABRIC

NOTE:
OTHER ABBREVIATIONS USED ON THESE DRAWINGS ARE CONSIDERED STANDARDS IN THE BUILDING INDUSTRY. CONTACT ARCHITECT FOR NECESSARY CLARIFICATION.

PROJECT DESCRIPTION

INTENT OF THESE DRAWINGS IS TO MODERNIZE THE CAFETERIA BUILDING, INCLUDING THE KITCHEN, SERVERY, STAFF LOCKER ROOM, AND RESTROOM UPGRADES FOR ACCESSIBILITY.

DSA 103 EXEMPT

- HAND RAILING

VICINITY MAP

OVERALL SITE PLAN

SITE PLAN 1
1" = 160'-0"

AGENCY APPROVAL:

HMC Architects
3186-071-000
2101 CAPITOL AVENUE, SUITE 100,
SACRAMENTO, CA, 95816
916 368 7990 / www.hmcarchitects.com

LICENSED ARCHITECT
MICHAEL CHESTER RATH
C-25193
REN. 07/31/25
STATE OF CALIFORNIA

ISSUE

Δ	DESCRIPTION	DATE

FACILITY:
LUTHER BURBANK HIGH SCHOOL
3500 FLORIN RD
SACRAMENTO, CA 95823

PROJECT:
LUTHER BURBANK HIGH SCHOOL CAFETERIA MODERNIZATION

SHEET NAME:
PROJECT DATA SHEET

DSA SUBMITTAL

DATE: **2024.06.28**
CLIENT PROJ NO: **3186071000**

SHEET:
G0.11

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PLEASE RECYCLE

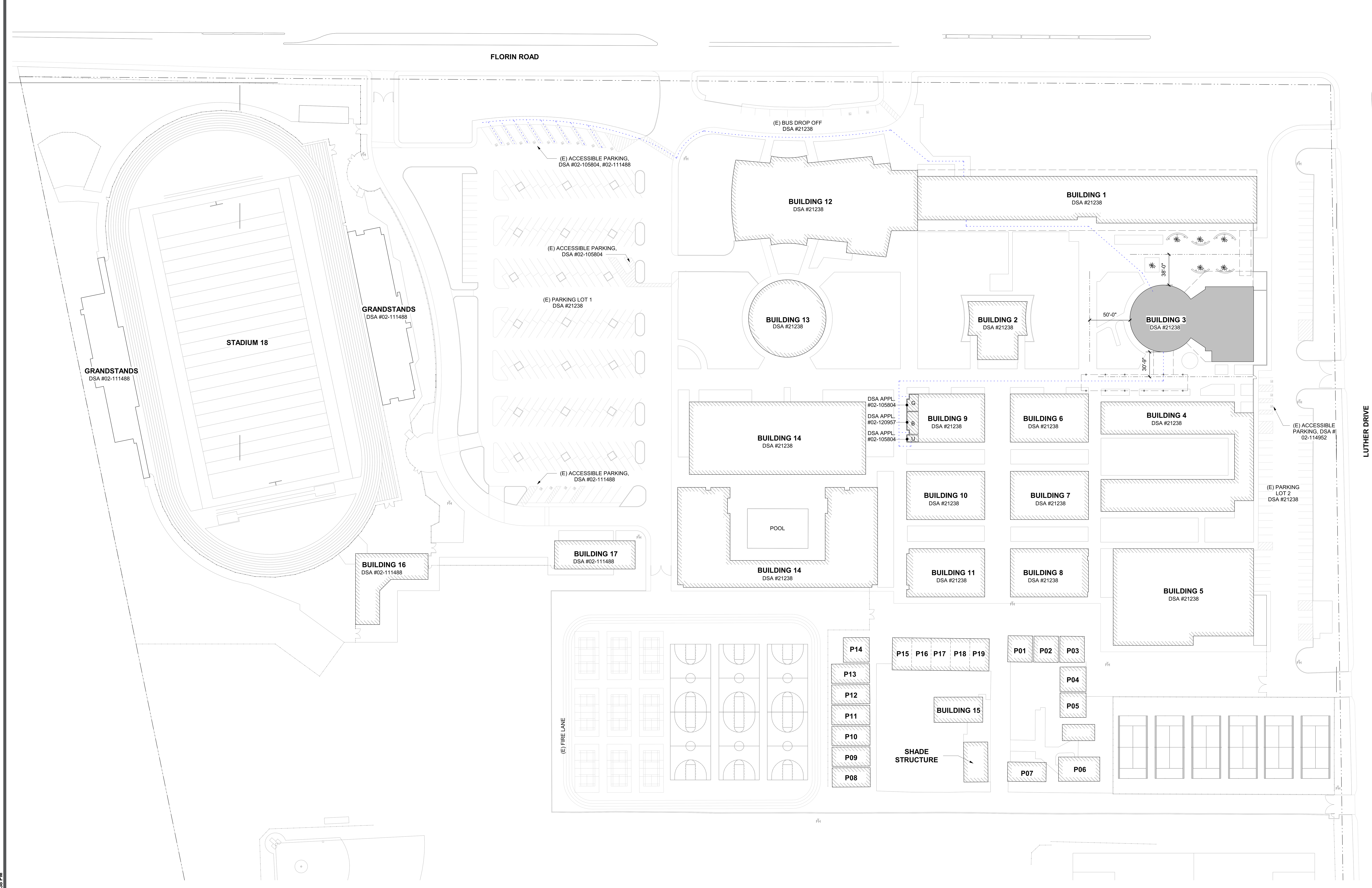
EXISTING PARKING CALCULATION		
(E) PARKING LOT 1		
STANDARD STALLS	260	
STANDARD ACCESSIBLE STALLS	12 PROVIDED	(7 REQUIRED*)
VAN ACCESSIBLE STALLS	3 PROVIDED	(2 REQUIRED**)
TOTAL STALLS		
(E) PARKING LOT 2		
STANDARD STALLS	73	
STANDARD ACCESSIBLE STALLS	3 PROVIDED	(3 REQUIRED*)
VAN ACCESSIBLE STALLS	1 PROVIDED	(1 REQUIRED**)
TOTAL STALLS		

*STANDARD ACCESSIBLE STALLS PER 2022 CBC TABLE 11B-208.2
(51-75 STALLS: MIN. 3 ACCESSIBLE STALLS REQUIRED)
(201-300 STALLS: MIN. ACCESSIBLE STALLS REQUIRED)
**VAN ACCESSIBLE STALLS PER 2022 CBC 11B-208.2.4
(1 VAN ACCESSIBLE STALL REQUIRE FOR EVERY 6 OR FRACTION OF 6 ACCESSIBLE STALLS REQUIRE)

PARKING INFORMATION

BUILDING NAME	OCCUPANCY	CONST. TYPE
BUILDING 1 - ADMINISTRATION/ CLASSROOMS	B/E-1	UNKNOWN
BUILDING 2 - LIBRARY	E-1	V-N
BUILDING 3 - CAFETERIA/ KITCHEN	A2.1	V-1 HR
BUILDING 4 - CLASSROOMS	E-1	V-N
BUILDING 5 - CLASSROOMS	E-1	III-N
BUILDING 6 - CLASSROOMS	E-1	V-N
BUILDING 7 - CLASSROOMS	E-1	V-N
BUILDING 8 - CLASSROOMS	E-1	V-N
BUILDING 9 - CLASSROOMS	E-1	V-N
BUILDING 10 - CLASSROOMS	E-1	V-N
BUILDING 11 - CLASSROOMS	E-1	V-N
BUILDING 12 - THEATRE	A2.1/E-1	V-N
BUILDING 13 - MUSIC	E-1	V-N

BUILDING CODE INFORMATION



SITE PLAN 1
1" = 50'-0"

AGENCY APPROVAL:

Sacramento City
UNIFIED SCHOOL DISTRICT

HMC Architects
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Δ	DESCRIPTION	DATE

LEGEND

	PROPERTY LINE
	ACCESSIBLE PATH OF TRAVEL / PATH OF TRAVEL TO PUBLIC WAY
	AREA OF WORK
	EXISTING BUILDINGS
	EXISTING FIRE LANE
	ACCESSIBLE RESTROOM (AS NOTED)
B	BOYS RESTROOM
G	GIRLS RESTROOM
U	UNISEX / STAFF RESTROOM

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT:

THE P.O.T. IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS MEETS THE REQUIREMENTS OF THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE (CBC) ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS, AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE P.O.T. WAS EXAMINED AND ANY ELEMENTS COMPONENTS, OR PORTIONS OF THE P.O.T THAT WERE DETERMINED TO BE NON-COMPLIANT WITH THE CBC HAVE BEEN IDENTIFIED AND THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAIL, DRAWINGS, AND SPECIFICATIONSINCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NON-COMPLIANT ELEMENTS OR PORTIONS OF THE P.O.T. THAT WILL NIT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE INDICATED BASED IN THESE CONSTRUCTION DOCUMENTS.

DURING CONSTRUCTION, IF P.O.T. ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CBC COMPLIANT ARE FOUND TO BE NON-CONFORMING BEYOND REASONABLE CONSRUCTION TOLERANCES, THE ITEMS SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

PATH OF TRAVL, TECHNICAL REQUIREMENTS FOR ACCESSIBLE ROUTE:

ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLAN IS A BARRIER-FREE ACCESS ROUTE WITHOUT ABRUPT LEVEL CHANGES EXCEEDING 1/2" IF BEVELED AT 1:2 MAXIMUM SLOPE OR VERTICAL LEVEL CHANGES NOT EXCEEDING 1/4" MAXIMUM AND AT LEAST 48" IN WIDTH. SURFACE IS STABLE, FIRM, AND SLIP-RESISTANT. CROSS-SLOPE SHALL NOT BE STEEBER THAN 1:48 AND SLOPE IN THE DIRECTION OF TRAVEL SHALL NO BE STEEPER THAN 1:20. ACCESSIBLE PATH OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM AND FREE OF OBJECTS PROTRUDING MORE THAN 4" FROM THE WALL., ABOVE 27" AND LES THAN 80" ABOVE THE FLOOR. ARCHITECTS SHALL VERIFY THAT THERE ARE NO BARRIERS IN THE BATH OF TRAVEL.

FACILITY:
LUTHER BURBANK HIGH SCHOOL
3500 FLORIN RD
SACRAMENTO, CA 95823

PROJECT:
LUTHER BURBANK HIGH SCHOOL CAFETERIA MODERNIZATION

SHEET NAME:
SITE PLAN

DSA SUBMITTAL

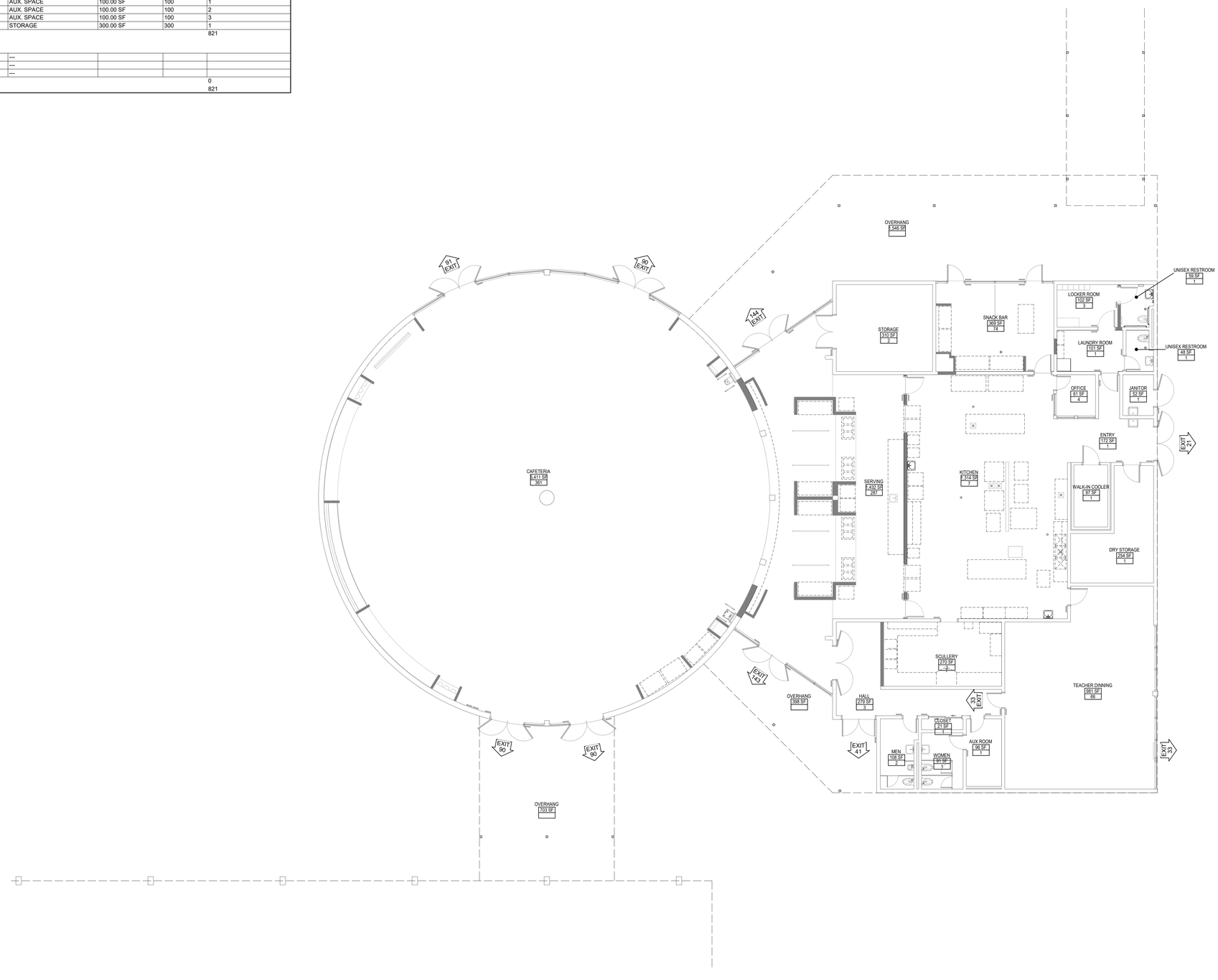
DATE: 2024.06.28
CLIENT PROJ NO: 3186071000

SHEET:
G1.11

OCCUPANT LOAD ANALYSIS

THE USE SHOWN ABOVE IS SUBJECT TO FINAL FIRE & LIFE SAFETY OFFICIAL'S APPROVAL

NUMBER	NAME	AREA	Level	OCCUPANCY DESCRIPTION	OCCUPANT LOAD FACTOR	OLF Integer	OCCUPANTS
INTERIOR							
1	CAFETERIA	5411 SF	1ST FLOOR	STUDENT DINING	15.00 SF	15	361
2	KITCHEN	1314 SF	1ST FLOOR	KITCHEN	200.00 SF	200	7
3	ENTRY	172 SF	1ST FLOOR	AUX. SPACE	200.00 SF	200	1
4	STORAGE	310 SF	1ST FLOOR	AUX. SPACE	300.00 SF	300	2
5	SNACK BAR	369 SF	1ST FLOOR	AUX. TO KITCHEN	5.00 SF	5	74
6	SERVING	1432 SF	1ST FLOOR	AUX. TO KITCHEN	5.00 SF	5	287
7	LAUNDRY ROOM	101 SF	1ST FLOOR	AUX. SPACE	300.00 SF	300	1
8	LOCKER ROOM	102 SF	1ST FLOOR	CHANGING ROOM	50.00 SF	50	3
9	UNISEX RESTROOM	59 SF	1ST FLOOR	AUX. SPACE	100.00 SF	100	1
10	UNISEX RESTROOM	48 SF	1ST FLOOR	AUX. SPACE	100.00 SF	100	1
11	JANITOR	52 SF	1ST FLOOR	AUX. SPACE	300.00 SF	300	1
12	OFFICE	61 SF	1ST FLOOR	OFFICE	20.00 SF	20	4
13	DRY STORAGE	254 SF	1ST FLOOR	FOOD STORAGE	300.00 SF	300	1
14	TEACHER DINNING	981 SF	1ST FLOOR	STAFF DINING	15.00 SF	15	66
15	SCULLERY	270 SF	1ST FLOOR	KITCHEN	200.00 SF	200	2
16	WALK-IN COOLER	97 SF	1ST FLOOR	FOOD STORAGE	300.00 SF	300	1
17	AUX ROOM	96 SF	1ST FLOOR	AUX. SPACE	300.00 SF	300	1
18	WOMEN	91 SF	1ST FLOOR	AUX. SPACE	100.00 SF	100	1
19	MEN	108 SF	1ST FLOOR	AUX. SPACE	100.00 SF	100	2
20	HALL	279 SF	1ST FLOOR	AUX. SPACE	100.00 SF	100	3
21	CLOSET	21 SF	1ST FLOOR	STORAGE	300.00 SF	300	1
		11627 SF					821
EXTERIOR							
A	OVERHANG	1546 SF	1ST FLOOR	---			
B	OVERHANG	398 SF	1ST FLOOR	---			
C	OVERHANG	703 SF	1ST FLOOR	---			
		2647 SF					0
Grand total		14274 SF					821



BUILDING CODE ANALYSIS A1
1/8" = 1'-0"

PLEASE RECYCLE

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AGENCY APPROVAL:

Sacramento City UNIFIED SCHOOL DISTRICT

HMC Architects

3186-071-000

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SACRAMENTO, CA, 95816
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LICENSED ARCHITECT
MICHAEL CHESTER BATH
C-25193
REN. 07/31/25
STATE OF CALIFORNIA

ISSUE

Δ	DESCRIPTION	DATE

KEYNOTES

NOTES

FACILITY:
LUTHER BURBANK HIGH SCHOOL
3500 FLORIN RD
SACRAMENTO, CA 95823

PROJECT:
LUTHER BURBANK HIGH SCHOOL CAFETERIA MODERNIZATION

SHEET NAME:
BUILDING CODE ANALYSIS

DSA SUBMITTAL

DATE: **2024.06.28** | CLIENT PROJ NO: **3186071000**

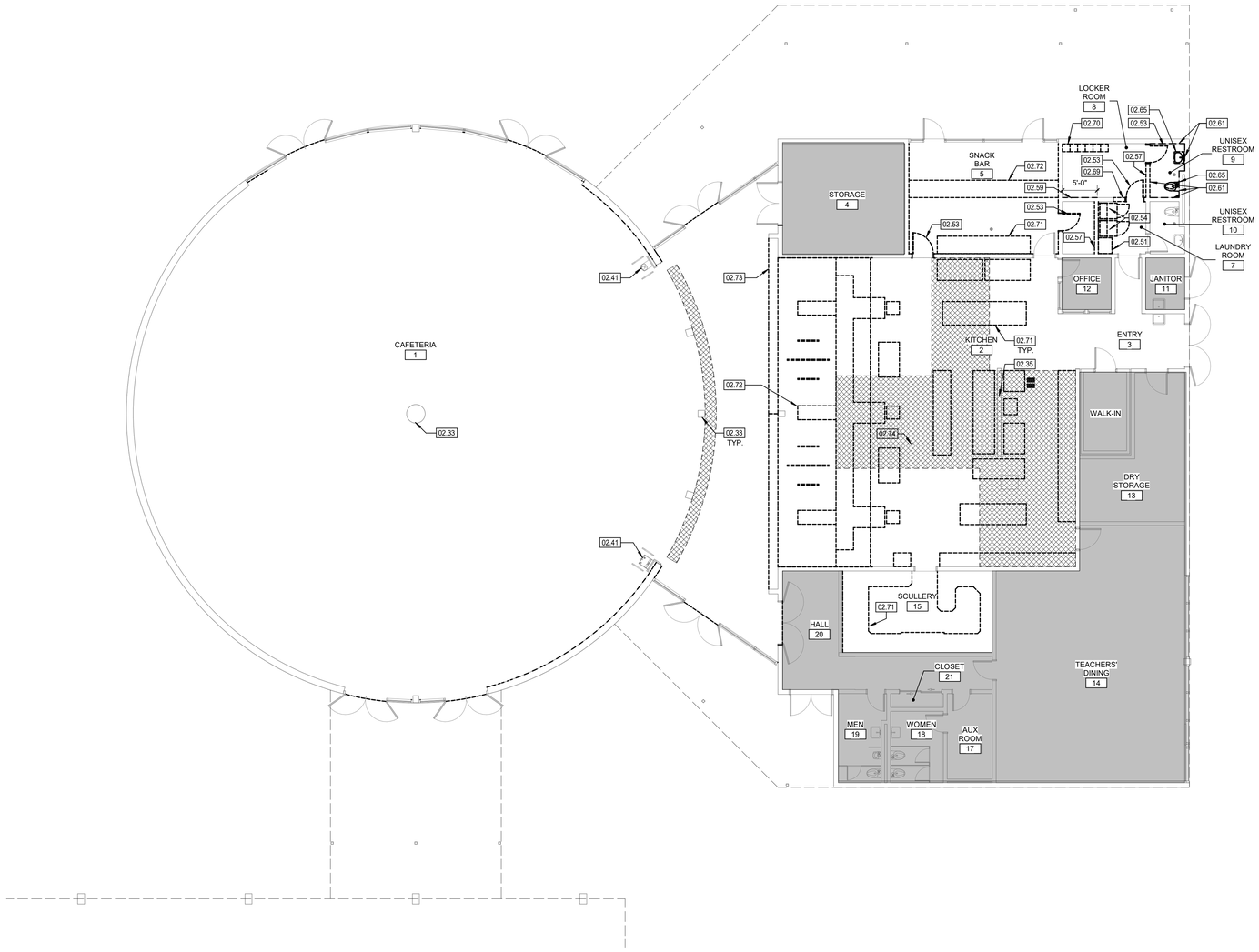
SHEET:

G1.21

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ORIGINAL 24X36 SHEETS. IF NOT, ADJUST SCALES ACCORDINGLY.

LEGEND

- EXISTING ELEMENT TO REMAIN
- EXISTING ELEMENT TO BE DEMOLISHED
- EXISTING STUD WALL TO REMAIN, REMOVE FINISH TO STRUCTURE, UNLESS OTHERWISE NOTED.



PN

DEMOLITION PLAN | **A1** 1/8" = 1'-0"

PLEASE RECYCLE

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MICHAEL CHESTER BATH
C-25193
REN. 07/31/25
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ISSUE

Δ	DESCRIPTION	DATE

KEYNOTES

02.33 (E) STAINLESS STEEL COLUMN COVER; PROTECT IN PLACE
02.35 (E) BRICK TO BE PAINTED; PROTECT IN PLACE
02.41 (E) DRINKING FOUNTAIN TO REMAIN; PROTECT IN PLACE
02.51 REMOVE (E) CASEWORK
02.53 REMOVE (E) DOOR, FRAME AND HARDWARE SYSTEM
02.54 REMOVE (E) MISC ACCESSORIES, EQUIPMENT & FURNITURE. RETURN TO OWNER FOR SALVAGE/REUSE PER CONTRACTOR/OWNER AGREEMENT
02.57 DEMOLISH (E) WALL
02.59 REMOVE (E) PORTION OF GYP BD LAYER FINISH AS REQUIRED FOR REMODEL WORK
02.61 REMOVE (E) WALL FINISH BACK TO STUDS
02.65 REMOVE (E) PLUMB FIXTURE | PLUMB
02.69 DEMOLISH PORTION OF (E) WALL AS REQUIRED FOR NEW CONSTRUCTION | REMODEL PLAN
02.70 REMOVE (E) LOCKERS; SALVAGE AND RETURN TO OWNER
02.71 REMOVE (E) FOOD SERVICE
02.72 REMOVE (E) SERVICE COUNTER
02.73 REMOVE (E) SLIDING CURTAIN
02.74 EXTEND OF SLAB DEMO (SHOWN HATCHED) REFER TO PLUMBING FOR ADDITIONAL INFORMATION

NOTES

1. REFER TO SHEET G0.11 FOR TYPICAL SYMBOLS AND ABBREVIATIONS.
2. REFER TO G-SERIES SHEETS FOR ADDITIONAL INFO AND CODE REQUIREMENTS.
3. REMOVE ALL ITEMS SCHEDULED TO BE REMOVED, INCLUDING MOUNTING HARDWARE, ABANDONED SWITCHES, WIRING AND SURFACE MOUNTED CONDUIT. SURFACE SHALL BE CLEANED AND PREPARED TO RECEIVE NEW WORK. WHERE EXISITNG FINISHES ARE TO REMAIN, INSTALL BLANK COER PLATES OVER ABANDONED OUTLET BOXES AND PATCH EXITING FINISHES AS REQUIRED TO RECEIVE NEW FINISH MATERIALS.
4. SEE FOOD SERVICE DRAWINGS FOR EXTENT OF DEMOLITION WORK.
5. SEE MECHANICAL, PLUMBING AND ELECTRICAL FOR ADDITIONAL DEMOLITION WORK.

FACILITY:

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PROJECT:

LUTHER BURBANK HIGH SCHOOL CAFETERIA MODERNIZATION

SHEET NAME:

DEMOLITION PLAN

DSA SUBMITTAL

DATE: **2024.06.28** | CLIENT PROJ NO: **3186071000**

SHEET:

A2.10

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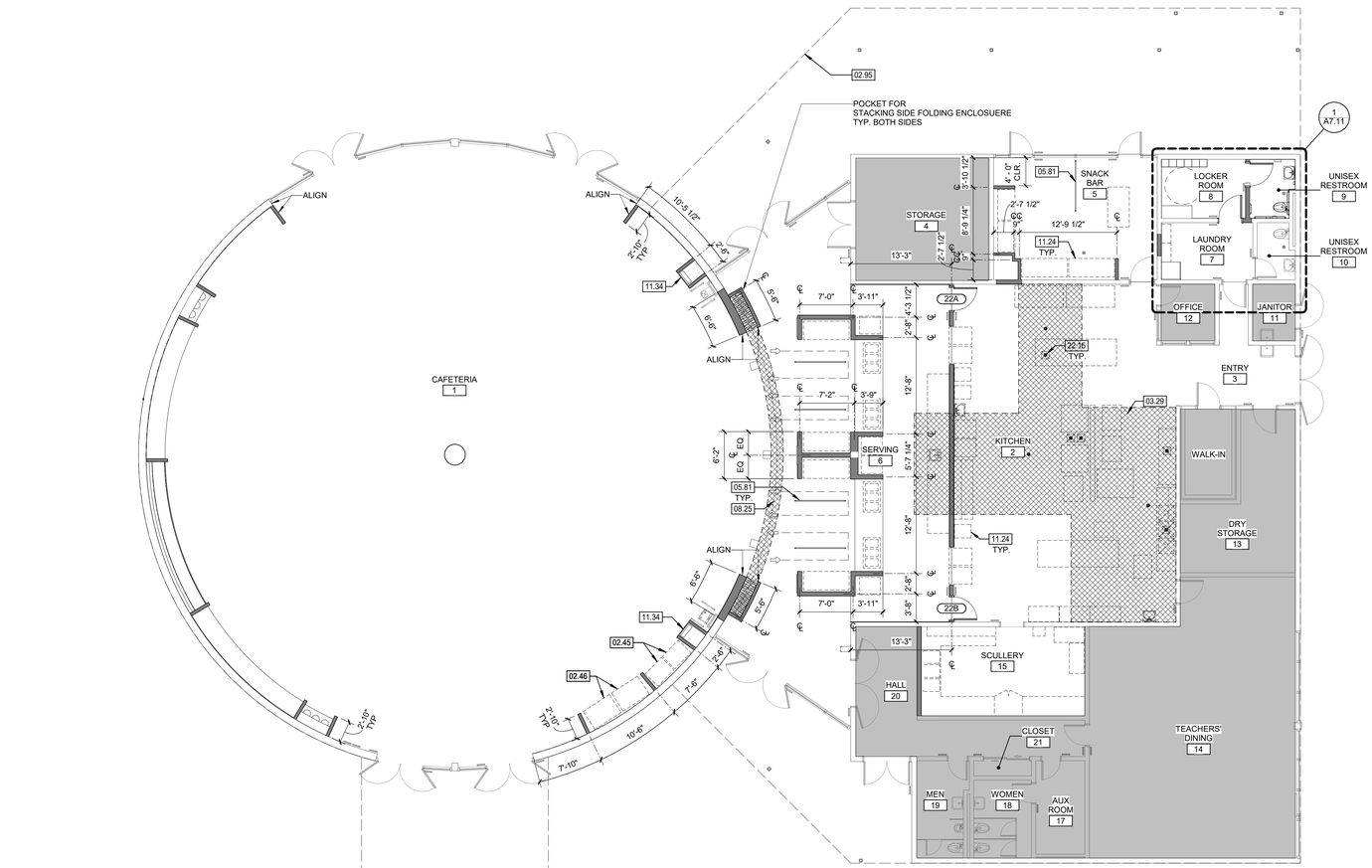
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ORIGINAL 24X36 SHEETS. IF NOT, ADJUST SCALES ACCORDINGLY

LEGEND

WOOD STUD WALL; PROVIDE 2x6 STUDS @ 16" O.C., UNLESS OTHERWISE NOTED. PROVIDE INSULATION AT ALL WALLS, U.O.N.

WORK DESIGNATED NOT TO BE IN CONTRACT



KEYNOTES

02.45 (E) VENDING MACHINE, REINSTALLED
02.46 (E) MILK COOLER, REINSTALLED.
02.95 (E) ROOF OVERHANG ABOVE
03.29 EXTENT OF SLAB PATCH BACK (SHOWN HATCHED)
05.81 METAL STAIRS
08.25 SIDE FOLDING ENCLOSURE
11.24 BUILT-IN TRASH & TRAY RETURN | FOOD SERVICE
11.34 LED DISPLAY PANEL
22.15 NEW FLOOR SINK , TYP. | SEE PLUMBING PLANS

NOTES

1. REFER TO SHEET G0.11 FOR TYPICAL SYMBOLS AND ABBREVIATIONS.
2. REFER TO G-SERIES SHEETS FOR ADDITIONAL INFO AND CODE REQUIREMENTS.
3. REMOVE ALL ITEMS SCHEDULED TO BE REMOVED, INCLUDING MOUNTING HARDWARE, ABANDONED SWITCHES, WIRING AND SURFACE MOUNTED CONDUIT. SURFACE SHALL BE CLEANED AND PREPARED TO RECEIVE NEW WORK. WHERE EXISTING FINISHES ARE TO REMAIN, INSTALL BLANK COER PLATES OVER ABANDONED OUTLET BOXES AND PATCH EXITING FINISHES AS REQUIRED TO RECEIVE NEW FINISH MATERIALS.
4. SEE FOOD SERVICE DRAWINGS FOR EXTENT OF DEMOLITION WORK.
5. SEE MECHANICAL, PLUMBING AND ELECTRICAL FOR ADDITIONAL DEMOLITION WORK.

PN

IMPROVEMENT PLAN 1
1/8" = 1'-0"

PLEASE RECYCLE

AGENCY APPROVAL:

Sacramento City UNIFIED SCHOOL DISTRICT

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LICENSED ARCHITECT MICHAEL CHESTER BATH C-25193 REN. 07/31/25 STATE OF CALIFORNIA

ISSUE

Δ	DESCRIPTION	DATE

FACILITY:
LUTHER BURBANK HIGH SCHOOL
3500 FLORIN RD
SACRAMENTO, CA 95823

PROJECT:
LUTHER BURBANK HIGH SCHOOL CAFETERIA MODERNIZATION

SHEET NAME:
IMPROVEMENT PLAN

DSA SUBMITTAL

DATE: **2024.06.28** | CLIENT PROJ NO: **3186071000**

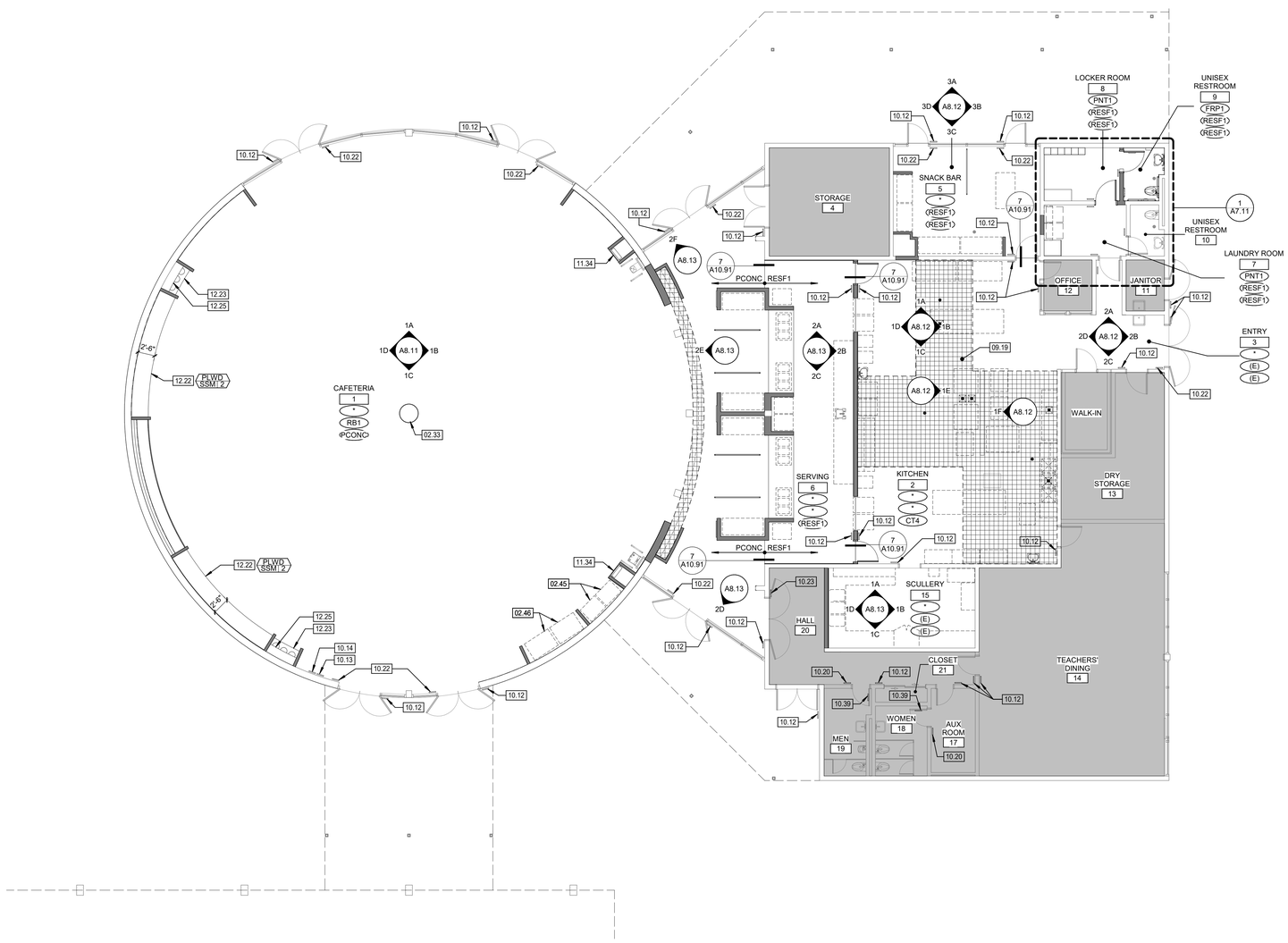
SHEET:
A2.11

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ORIGINAL 24X36 SHEETS. IF NOT, ADJUST SCALES ACCORDINGLY.

LEGEND

WOOD STUD WALL; PROVIDE 2x6 STUDS @ 16" O.C., UNLESS OTHERWISE NOTED. PROVIDE INSULATION AT ALL WALLS, U.O.N.

WORK DESIGNATED NOT TO BE IN CONTRACT



KEYNOTES

02.33	(E) STAINLESS STEEL COLUMN COVER; PROTECT IN PLACE
02.45	(E) VENDING MACHINE, REINSTALLED
02.46	(E) MILK COOLER, REINSTALLED.
09.19	QUARRY FLOOR TILE, PATCH-BACK FROM DEMOLITION SCOPE.
10.12	ROOM ID SIGN
10.13	OCCUPANT LOAD SIGN
10.14	ASSISITIVE LISTENING DEVICE SIGN | XX/A10.81
10.20	UNISEX RESTROOM ID WALL SIGN
10.22	TACTILE "EXIT" SIGN
10.23	TACTILE "EXIT ROUTE" SIGN
10.39	RESTROOM DOOR SYMBOL
11.34	LED DISPLAY PANEL
12.22	SOLID SURFACE COUNTERTOP
12.23	STAINLESS STEEL COUNTERTOP
12.25	STAINLESS STEEL SHELF

NOTES

1. REFER TO SHEET G0.11 FOR TYPICAL SYMBOLS AND ABBREVIATIONS.
2. REFER TO G-SERIES SHEETS FOR ADDITIONAL INFO AND CODE REQUIREMENTS.
3. REMOVE ALL ITEMS SCHEDULED TO BE REMOVED, INCLUDING MOUNTING HARDWARE, ABANDONED SWITCHES, WIRING AND SURFACE MOUNTED CONDUIT. SURFACE SHALL BE CLEANED AND PREPARED TO RECEIVE NEW WORK. WHERE EXISITNG FINISHES ARE TO REMAIN, INSTALL BLANK COER PLATES OVER ABANDONED OUTLET BOXES AND PATCH EXITING FINISHES AS REQUIRED TO RECEIVE NEW FINISH MATERIALS.
4. SEE FOOD SERVICE DRAWINGS FOR EXTENT OF DEMOLITION WORK.
5. SEE MECHANICAL, PLUMBING AND ELECTRICAL FOR ADDITIONAL DEMOLITION WORK.

PN

FINISH PLAN & SIGNAGE | A1 | 1/8" = 1'-0"

PLEASE RECYCLE

AGENCY APPROVAL:

Sacramento City UNIFIED SCHOOL DISTRICT

HMC Architects

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2101 CAPITOL AVENUE, SUITE 100,
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916 368 7990 / www.hmcarchitects.com

LICENSED ARCHITECT MICHAEL CHESTER BATH C-25193 REN. 07/31/25 STATE OF CALIFORNIA

ISSUE

Δ	DESCRIPTION	DATE

FACILITY:

LUTHER BURBANK HIGH SCHOOL
3500 FLORIN RD
SACRAMENTO, CA 95823

PROJECT:

LUTHER BURBANK HIGH SCHOOL CAFETERIA MODERNIZATION

SHEET NAME:

FINISH PLAN & SIGNAGE

DSA SUBMITTAL

DATE: **2024.06.28** | CLIENT PROJ NO: **3186071000**

SHEET:

A2.12

Autodesk Docs://3186071000 SCUSD Luther Burbank Cafeteria Mod/3186071000-A-BURBANK-CAFETERIA.rvt
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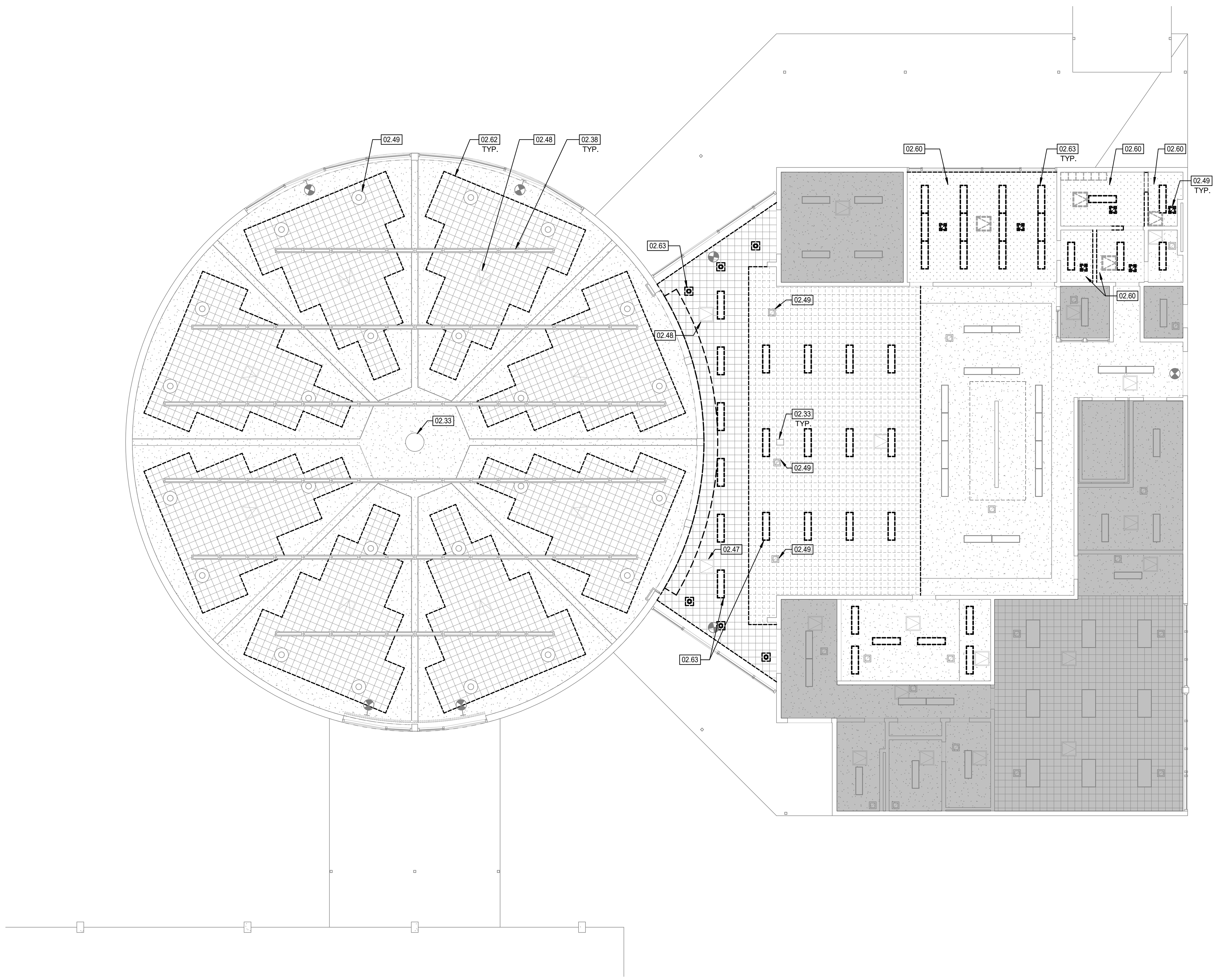
LEGEND

- WORK DESIGNATED NOT TO BE IN CONTRACT
- GLUE UP TILE TO BE DEMOLISHED
- GYPSUM CEILING TO BE DEMOLISHED
- OR — LIGHT FIXTURE TO BE DEMOLISHED
- MECH REGISTER TO BE DEMOLISHED
- ACCESS DOOR TO BE DEMOLISHED
- EXISTING SURFACE MOUNTED LIGHT FIXTURE
- EXISTING SUSPENDED LIGHT FIXTURE
- OR — EXISTING MECHANICAL REGISTERS
- EXISTING EXIT SIGNS
- EXISTING ACCESS DOOR



DEMOLITION REFLECTED CEILING PLAN 1
1/8" = 1'-0"

AGENCY APPROVAL:

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LICENSED ARCHITECT MICHAEL CHESTER RATH C-25193 REN. 07/31/25 STATE OF CALIFORNIA

ISSUE

Δ	DESCRIPTION	DATE

KEYNOTES

- 02.33 (E) STAINLESS STEEL COLUMN COVER; PROTECT IN PLACE
- 02.38 (E) LIGHT FIXTURE TO REMAIN; PROTECT IN PLACE; CLEAN ALL FIXTURE HOUSING AND LENSES AT ALL SCOPE OF WORK AREAS | ELEC
- 02.47 (E) EXIT SIGN
- 02.48 (E) ACCESS DOOR TO REMAIN
- 02.49 (E) MECHANICAL REGISTER TO REMAIN; PROTECT IN PLACE
- 02.60 DEMOLISH (E) CEILING
- 02.62 (E) GLUE-UP TILE TO BE REMOVED
- 02.63 REMOVE (E) LIGHT FIXTURE

NOTES

1. PATCH AND REPAIR SURFACES AS REQUIRED AT LOCATION WHERE EXISTING ELECTRICAL AND MECHANICAL EQUIPMENT IS BEING REMOVED.
2. FOR ANCHORAGE DETAILS SEE AXX
3. PROTECT ALL ITEMS NOT NOTED TO BE REMOVED OR MODIFIED REPAIR ALL DAMAGED ITEMS TO CONDITION SAME AS BEFORE DAMAGE OCCURED.
4. REMOVE ALL ITEMS SCHEDULED FOR DEMOLITION INCLUDING MOUNTING HARDWARE, ABANDONED SWITCH, WIRING, AND SURFACE MOUNTED CONDUIT. SURFACES SHALL BE CLEANED AND PREPARED TO RECEIVE NEW WORK.
5. ALL ITEMS TO BE REMOVED AND NOT REINSTALLED SHALL BE DISPOSED OF OFF SITE.
6. REMOVE ALL ITEMS AS REQUIRED TO INSTALL NEW WORK WHETHER OR NOT SPECIFICALLY SHOWN TO BE REMOVED OR MODIFIED.
7. SEE DEMOLITION STRUCTURAL, MECHANICAL PLUMBING, AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION.

FACILITY:
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SACRAMENTO, CA 95823

PROJECT:
LUTHER BURBANK HIGH SCHOOL CAFETERIA MODERNIZATION

SHEET NAME:
DEMOLITION REFLECTED CEILING PLAN

DSA SUBMITTAL

DATE: 2024.06.28 CLIENT PROJ NO: 3186071000

SHEET:
A3.10

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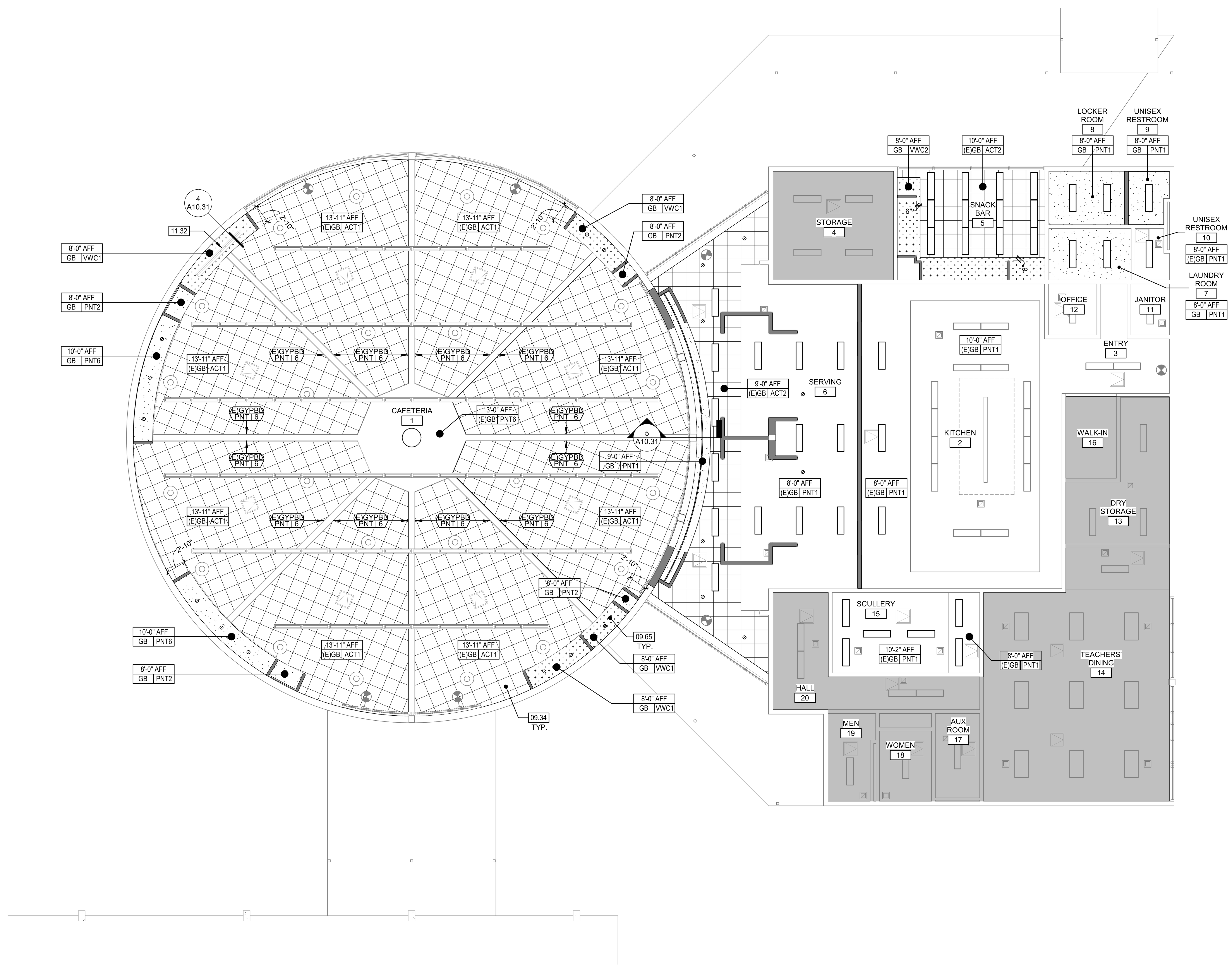
LEGEND

- EXISTING SURFACE MOUNTED LIGHT FIXTURE
- EXISTING SUSPENDED LIGHT FIXTURE
- OR — EXISTING MECHANICAL REGISTERS
- EXISTING EXIT SIGNS
- EXISTING ACCESS DOOR
- SURFACE MOUNTED LIGHT FIXTURE
- RECESSED LIGHT FIXTURE
- EXISTING PARTITION WALL
- NEW PARTITION WALL
- ACOUSTICAL CEILING TILE
- GYPSUM BOARD CEILING



IMPROVEMENT REFLECTED CEILING PLAN 1

1/8" = 1'-0"

AGENCY APPROVAL:

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HMC Architects

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LICENSED ARCHITECT — MICHAEL CHESTER RATH — C-25193 — REN. 07/31/25 — STATE OF CALIFORNIA

ISSUE

Δ	DESCRIPTION	DATE

KEYNOTES

- 09.34 ACOUSTICAL CEILING TILE
- 09.65 VINYL WALL COVERING O/ GYPSUM WALLBOARD
- 11.32 RECESSED PROJECTION SCREEN

NOTES

FACILITY:
LUTHER BURBANK HIGH SCHOOL
3500 FLORIN RD
SACRAMENTO, CA 95823

PROJECT:
LUTHER BURBANK HIGH SCHOOL CAFETERIA MODERNIZATION

SHEET NAME:
IMPROVEMENT REFLECTED CEILING PLAN

DSA SUBMITTAL

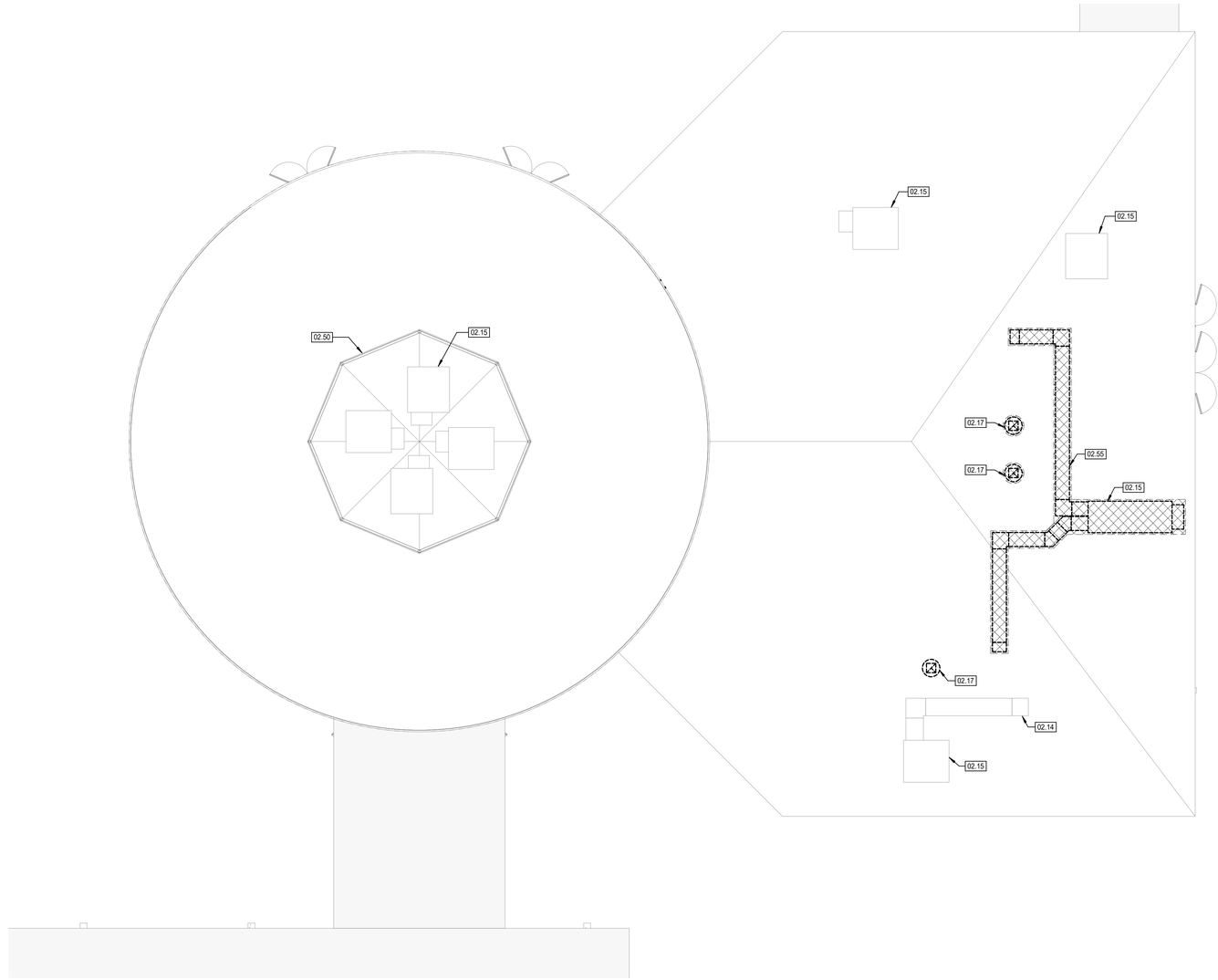
DATE: 2024.06.28 CLIENT PROJ NO: 3186071000

SHEET:

A3.11

PLEASE RECYCLE

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ORIGINAL 24X36 SHEETS. IF NOT, ADJUST SCALE ACCORDINGLY



N
PN

DEMOLITION ROOF PLAN 1 1/8" = 1'-0"

PLEASE RECYCLE

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LICENSED ARCHITECT
MICHAEL CHESTER BATH
C-25193
REN. 07/31/25
STATE OF CALIFORNIA

ISSUE

Δ	DESCRIPTION	DATE

KEYNOTES

02.14 (E) DUCT TO REMAIN IN PLACE; PROTECT IN PLACE
02.15 (E) HVAC UNITS TO REMAIN
02.17 (E) ROOF EXHAUST TO REMAIN; PROTECT IN PLACE
02.50 (E) MECHANICAL SCREEN TO REMAIN
02.55 REMOVE (E) MECHANICAL EQUIPMENT, DUCTWORK, AND OR ROOF EXHAUST

NOTES

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3500 FLORIN RD
SACRAMENTO, CA 95823

PROJECT:
LUTHER BURBANK HIGH SCHOOL CAFETERIA MODERNIZATION

SHEET NAME:
DEMOLITION ROOF PLAN

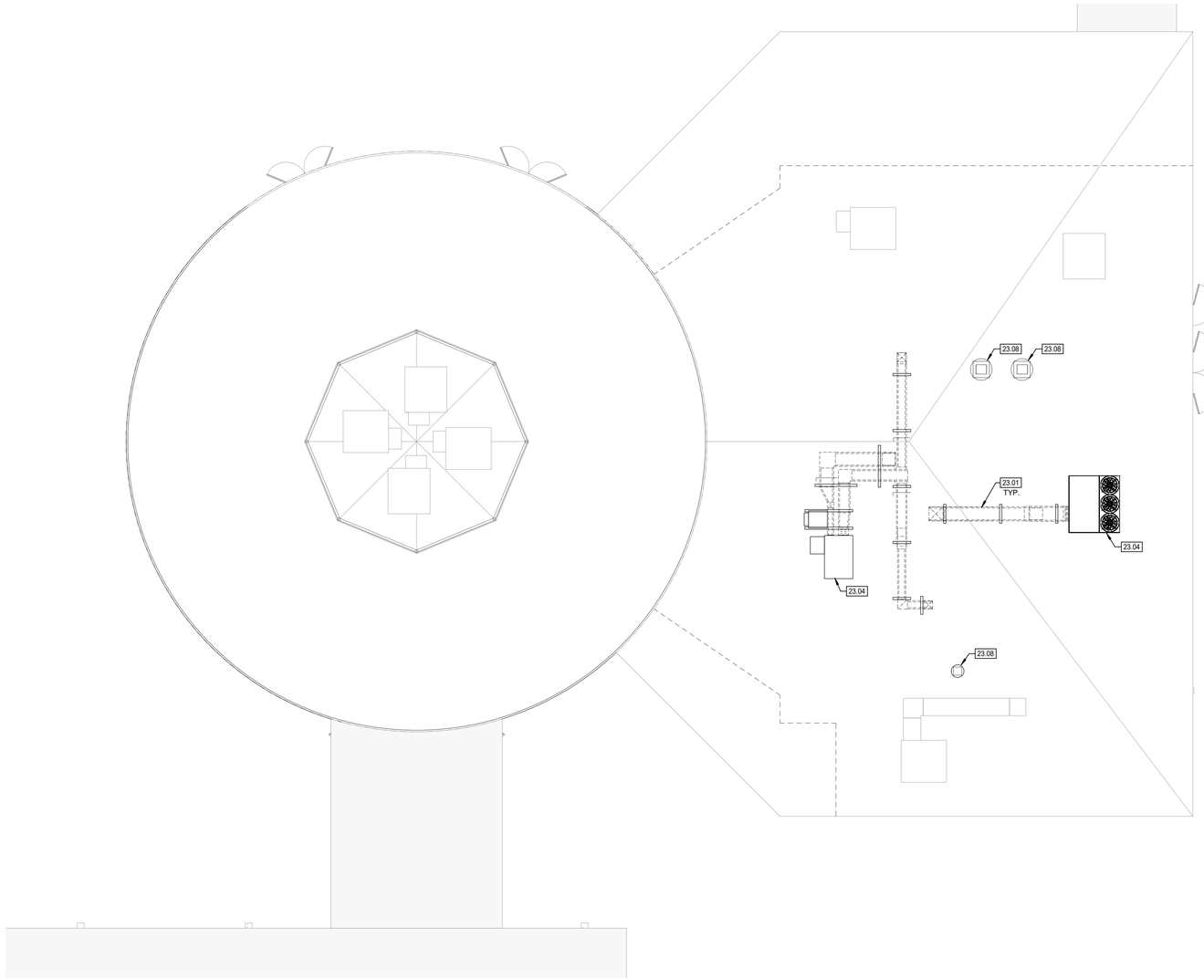
DSA SUBMITTAL

DATE: **2024.06.28** | CLIENT PROJ NO: **3186071000**

SHEET:

A4.10

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ARCH D SHEETS ORIGINALLY DRAWN AT 24"X36"



IMPROVEMENT ROOF PLAN | **1** 1/8" = 1'-0"

PLEASE RECYCLE

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LICENSED ARCHITECT
MICHAEL CHESTER BATH
C-25193
REN. 07/31/25
STATE OF CALIFORNIA

ISSUE

Δ	DESCRIPTION	DATE

KEYNOTES

23.01 MECHANICAL DUCTS | MECH
23.04 MECHANICAL EQUIPMENT | MECH
23.08 NEW ROOF EXHAUST FAN UNIT | REFER TO MECHANICAL DRAWINGS

NOTES

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SACRAMENTO, CA 95823

PROJECT:
LUTHER BURBANK HIGH SCHOOL CAFETERIA MODERNIZATION

SHEET NAME:
IMPROVEMENT ROOF PLAN

DSA SUBMITTAL

DATE: **2024.06.28** | CLIENT PROJ NO: **3186071000**

SHEET:

A4.11

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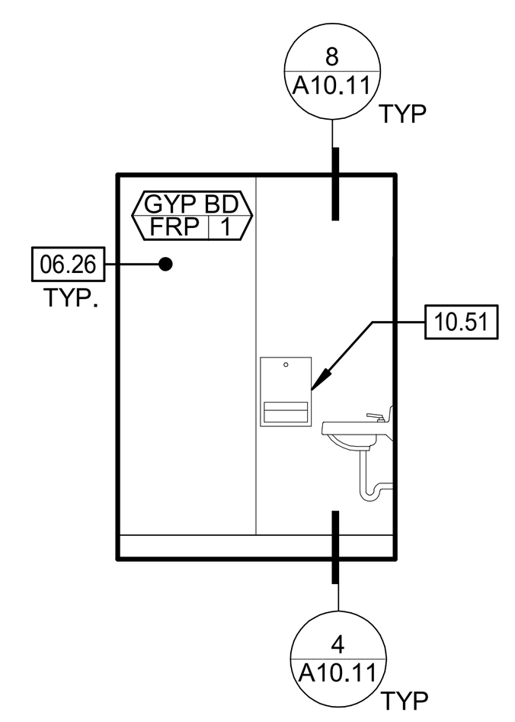
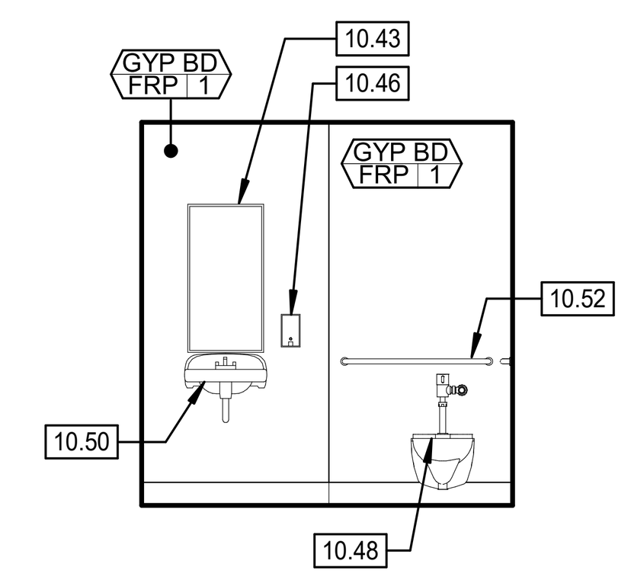


9 UNISEX RESTROOM **4A**
1/4" = 1'-0"



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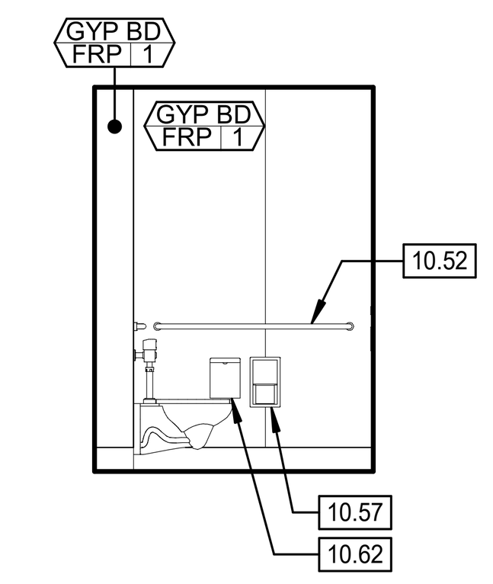
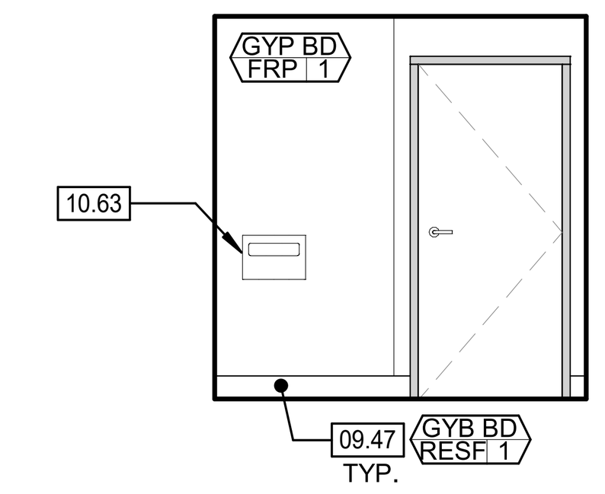
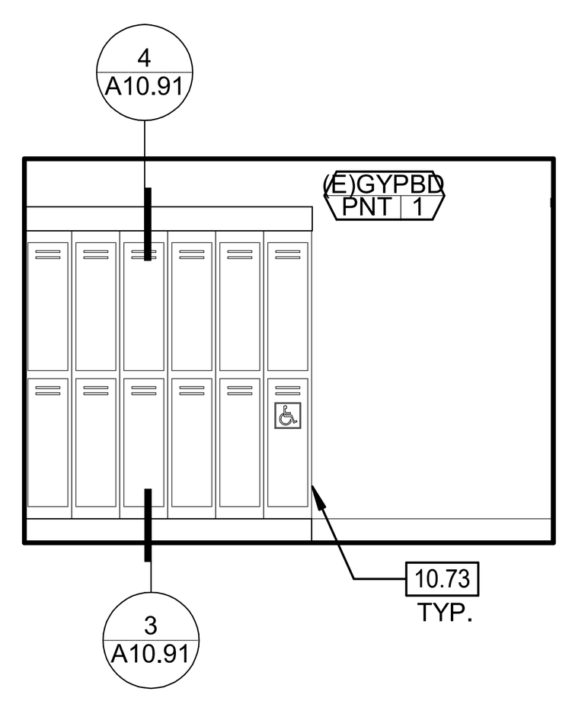
1/4" = 1'-0"



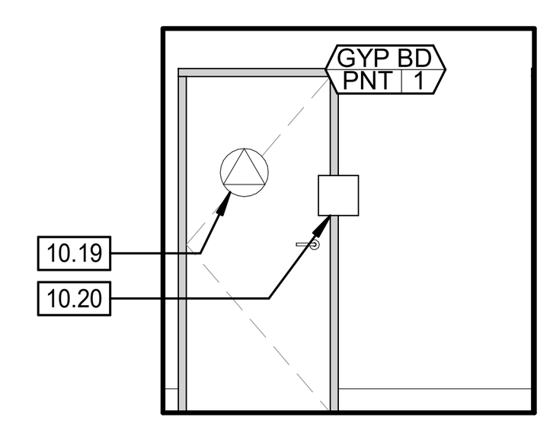
9 UNISEX RESTROOM **4C**
1/4" = 1'-0"



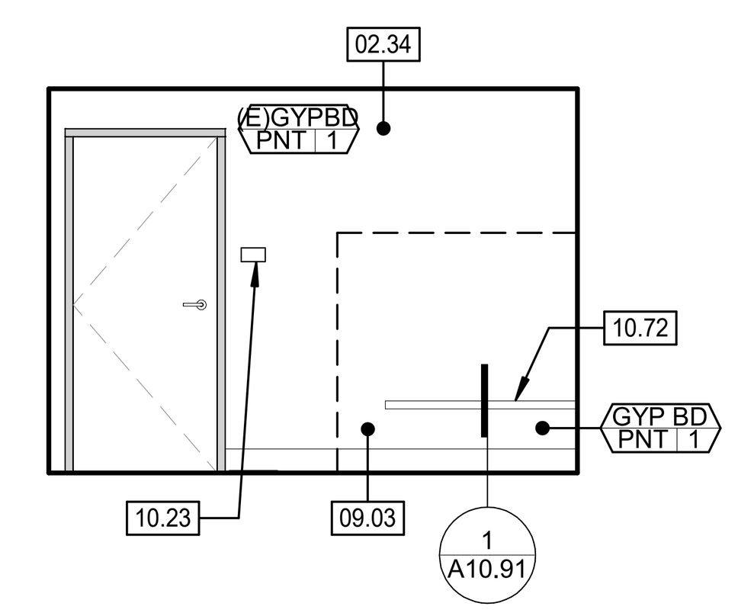
9 UNISEX RESTROOM **4D**
1/4" = 1'-0"



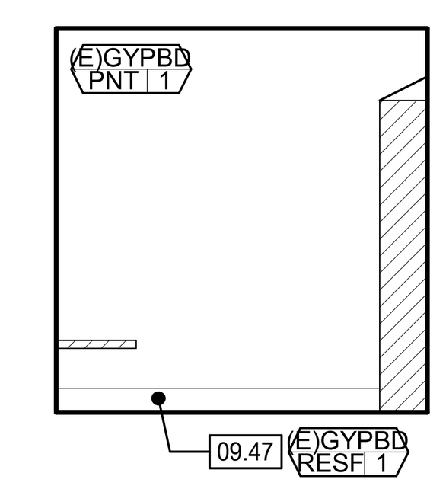
8 LOCKER ROOM **3A**
1/4" = 1'-0"



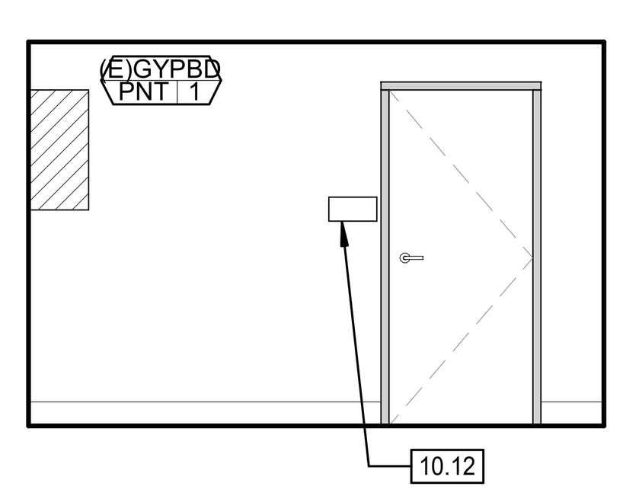
8 LOCKER ROOM **3B**
1/4" = 1'-0"



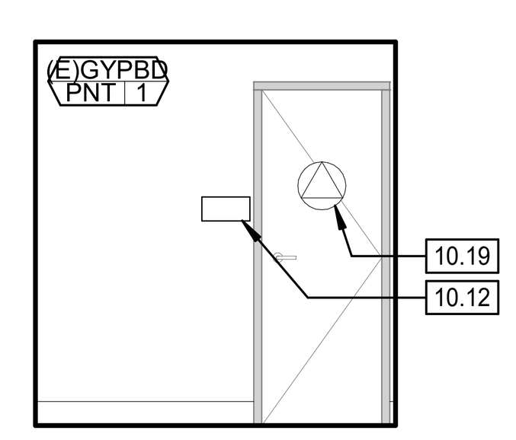
8 LOCKER ROOM **3C**
1/4" = 1'-0"



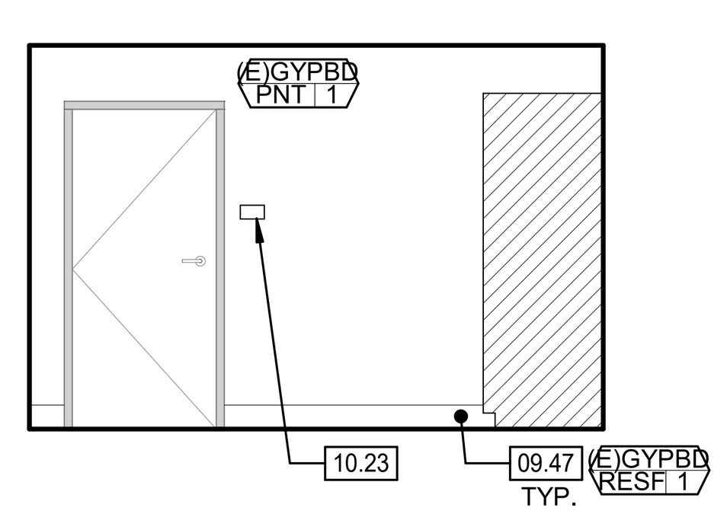
8 LOCKER ROOM **3D**
1/4" = 1'-0"



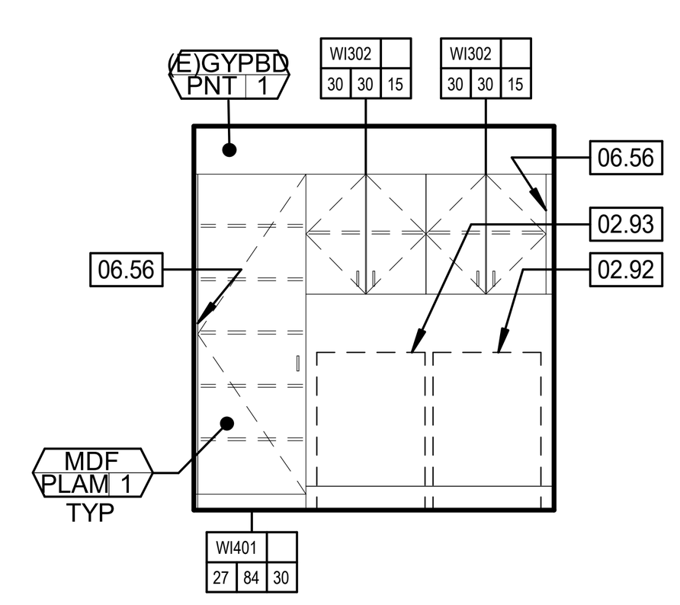
7 LAUNDRY ROOM **2A**
1/4" = 1'-0"



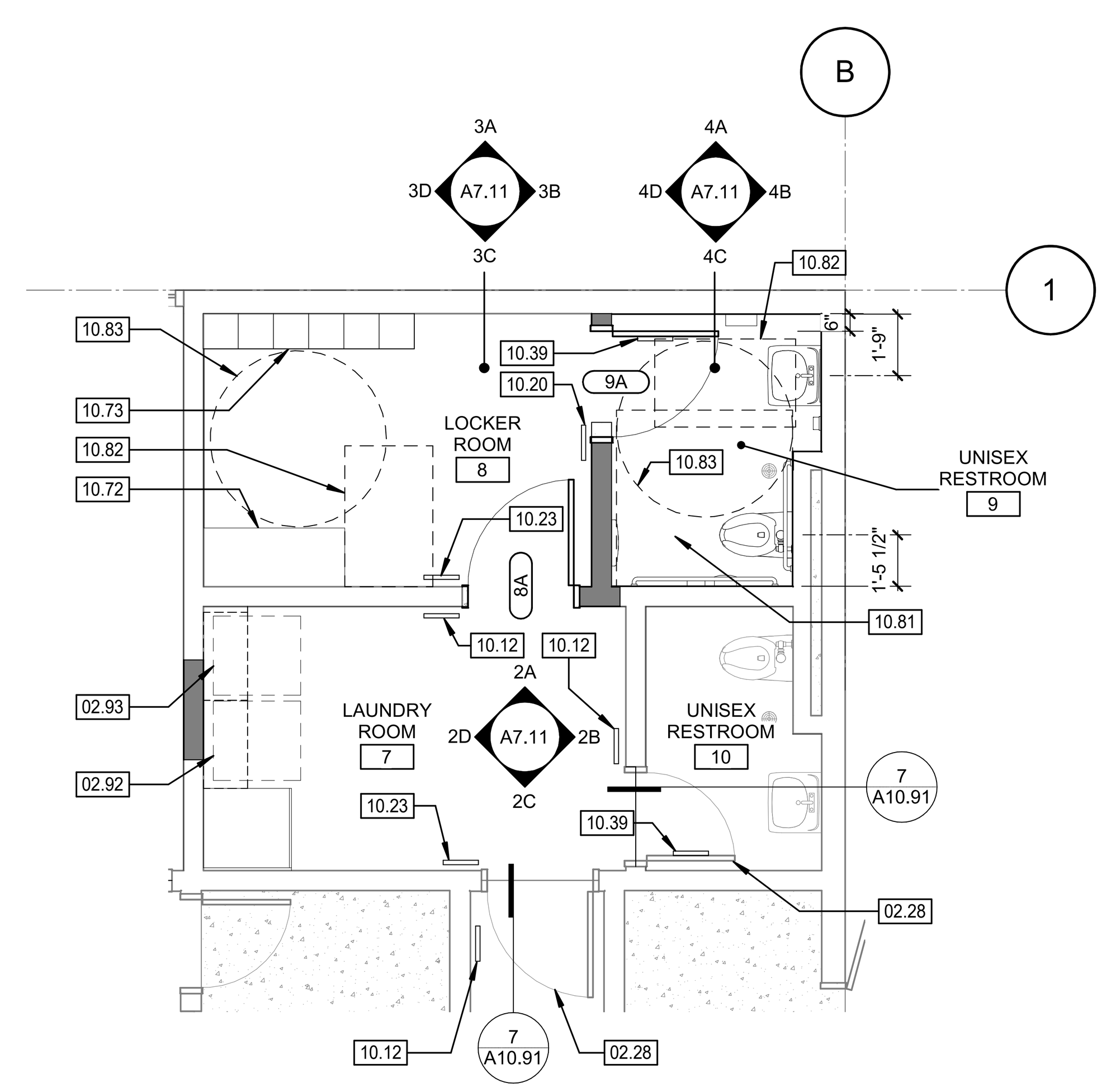
7 LAUNDRY ROOM **2B**
1/4" = 1'-0"



7 LAUNDRY ROOM **2C**
1/4" = 1'-0"



7 LAUNDRY ROOM **2D**
1/4" = 1'-0"



ENLARGED PLAN - UNISEX RESTROOM **1**
1/4" = 1'-0"

AGENCY APPROVAL:

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UNIFIED SCHOOL DISTRICT

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LICENSED ARCHITECT
MICHAEL CHESTER RATH
C-25193
REN. 07/31/25
STATE OF CALIFORNIA

ISSUE

Δ	DESCRIPTION	DATE

KEYNOTES

- 02.28 (E) DOOR, FRAME & HARDWARE TO REMAIN; PROTECT IN PLACE
- 02.34 (E) GYPSUM BOARD TO BE PAINTED; PROTECT IN PLACE
- 02.92 (E) WASHER, REINSTALLED
- 02.93 (E) DRYER, REINSTALLED
- 06.26 FIBERGLASS REINFORCED PLASTIC PANELING
- 06.56 FILLER PANEL
- 09.03 GYPSUM WALLBOARD PATCHBACK
- 09.47 COVE BASE
- 10.12 ROOM ID SIGN
- 10.19 UNISEX RESTROOM ID DOOR SIGN
- 10.20 UNISEX RESTROOM ID WALL SIGN
- 10.23 TACTILE "EXIT ROUTE" SIGN
- 10.39 RESTROOM DOOR SYMBOL
- 10.43 MIRROR; 18"W X 36"H | XX/A10.XX
- 10.46 SOAP DISPENSER | XX/A10.XX
- 10.48 WATER CLOSET
- 10.50 LAVATORY
- 10.51 PAPER TOWEL DISPENSER
- 10.52 GRAB BAR: 36"
- 10.57 TOILET TISSUE DISPENSER; RECESSED | XX/A10.XX
- 10.62 SANITARY NAPKIN DISPOSAL | XX/A10.XX
- 10.63 SEAT COVER DISPENSER; RECESSED | XX/A10.XX
- 10.72 48"W X 20"D WOOD BENCH
- 10.73 2-TIER LOCKER
- 10.81 60" X 60" CLR SPACE
- 10.82 24" X 48" CLR SPACE
- 10.83 60" DIAMETER CLR SPACE

NOTES

M — SUBSTRATE
F 1 — COLOR/TYPE - REFER TO FINISH SCHEDULE; MATERIAL TYPE - REFER TO FINISH SCHEDULE

FACILITY:
LUTHER BURBANK HIGH SCHOOL
3500 FLORIN RD
SACRAMENTO, CA 95823

PROJECT:
LUTHER BURBANK HIGH SCHOOL CAFETERIA MODERNIZATION

SHEET NAME:
ENLARGED PLANS & INTERIOR ELEVATIONS

DSA SUBMITTAL

DATE: 2024.06.28 CLIENT PROJ NO: 3186071000

SHEET:
A7.11

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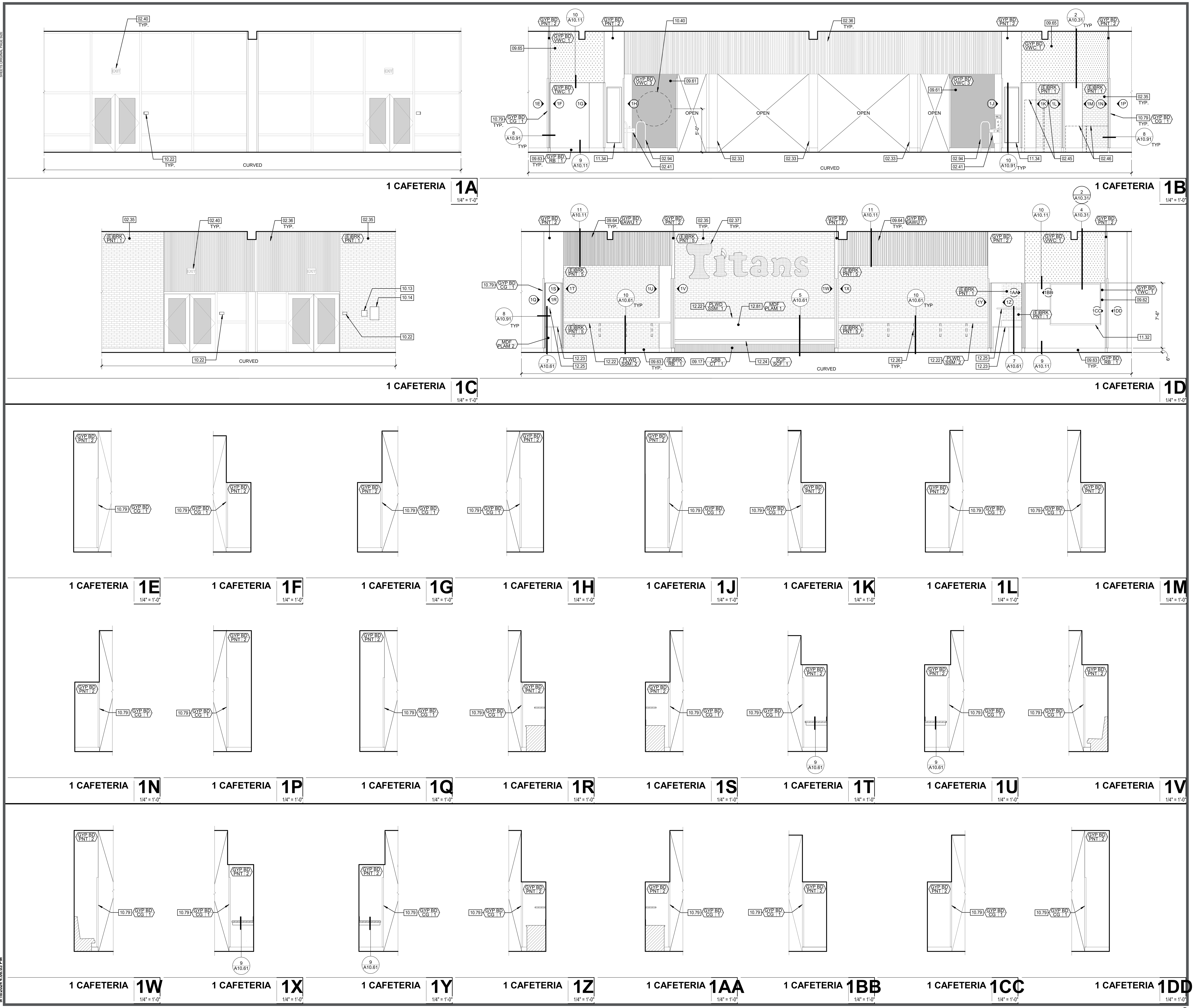

AGENCY APPROVAL:

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HMC Architects

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LICENSED ARCHITECT
MICHAEL CHESTER RATH
C-25193
REN. 07/31/25
STATE OF CALIFORNIA

ISSUE

Δ	DESCRIPTION	DATE

KEYNOTES

02.33	(E) STAINLESS STEEL COLUMN COVER; PROTECT IN PLACE
02.35	(E) BRICK TO BE PAINTED; PROTECT IN PLACE
02.36	(E) WOOD SLATS TO BE STAINED; PROTECT IN PLACE
02.37	(E) TILE LETTER; PROTECT IN PLACE
02.40	(E) EXIT SIGN; PROTECT IN PLACE
02.41	(E) DRINKING FOUNTAIN TO REMAIN; PROTECT IN PLACE
02.45	(E) VENDING MACHINE, REINSTALLED
02.46	(E) MILK COOLER, REINSTALLED.
02.94	(E) GUARDRAIL TO REMAIN; PROTECT IN PLACE
09.17	PORCELAIN WALL TILE O/ CEMENTITIOUS BACKER BOARD
09.61	CUSTOM GRAPHIC VINYL WALL COVERING O/ GYPSUM WALLBOARD
09.62	TACKABLE WALL COVERING O/ GYPSUM WALLBOARD O/ (E) BRICK
09.63	6" RUBBER BASE
09.64	SOUND ABSORBING FELT WALL BAFFLE O/ GYPSUM WALLBOARD
09.65	VINYL WALL COVERING O/ GYPSUM WALLBOARD
10.13	OCCUPANT LOAD SIGN
10.14	ASSISTIVE LISTENING DEVICE SIGN | XX/A10.81
10.22	TACTILE "EXIT" SIGN
10.40	LED LOGO SIGN, O.F.O.I.; CENTER ON WALL; PROVIDE IN-WALL BLOCKING
10.79	CLEAR CORNER GUARD
11.32	RECESSED PROJECTION SCREEN
11.34	LED DISPLAY PANEL
12.22	SOLID SURFACE COUNTERTOP
12.23	STAINLESS STEEL COUNTERTOP
12.24	UPHOLSTERED SEAT CUSHION
12.25	STAINLESS STEEL SHELF
12.26	COUNTERTOP SUPPORT BRACKET
12.81	BUILT-IN BANQUET

NOTES

M / F 1 — SUBSTRATE

COLOR/TYPE - REFER TO FINISH SCHEDULE
MATERIAL TYPE - REFER TO FINISH SCHEDULE

FACILITY:

LUTHER BURBANK HIGH SCHOOL
3500 FLORIN RD
SACRAMENTO, CA 95823

PROJECT:

LUTHER BURBANK HIGH SCHOOL CAFETERIA MODERNIZATION

SHEET NAME:

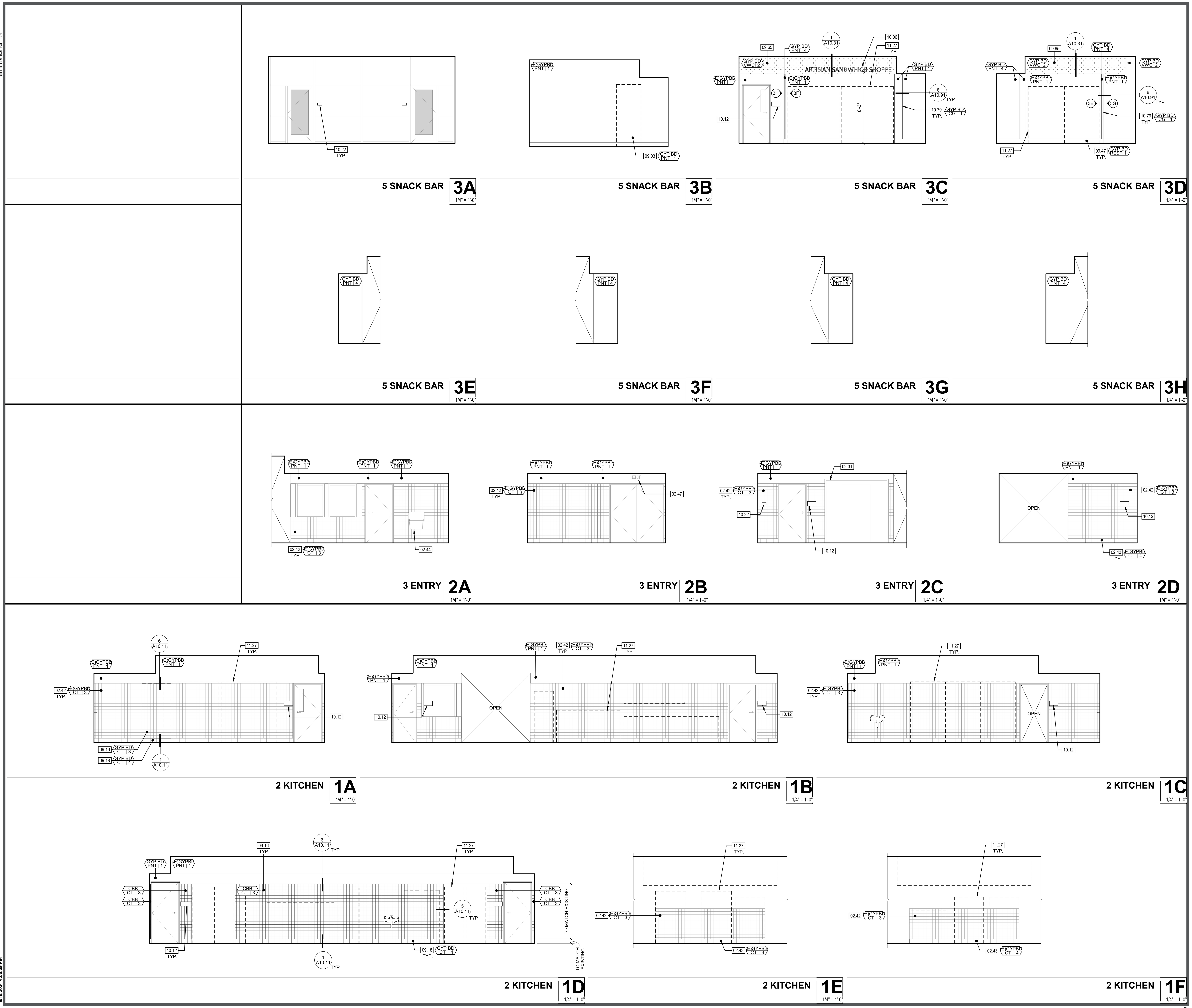
INTERIOR ELEVATIONS

DSA SUBMITTAL

DATE: **06/26/24** | CLIENT PROJ NO: **3186071000**

SHEET:

A8.11



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AGENCY APPROVAL:

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REN. 07/31/25
STATE OF CALIFORNIA

ISSUE

Δ	DESCRIPTION	DATE

KEYNOTES

02.31	(E) WALK-IN COOLER TO REMAIN; PROTECT IN PLACE
02.42	(E) CERAMIC WALL TILE; PROTECT IN PLACE. PATCH BACK TILE AS NECESSARY FROM DEMOLITION SCOPE.
02.43	(E) COVE TILE BASE, PROTECT IN PLACE. PATCH BACK TILE AS NECESSARY FROM DEMOLITION SCOPE.
02.44	(E) SINK
02.47	(E) EXIT SIGN
09.03	GYPSUM WALLBOARD PATCHBACK
09.16	CERAMIC WALL TILE O/ CEMENTITIOUS BACKER BOARD
09.18	COVE TILE BASE
09.47	COVE BASE
09.65	VINYL WALL COVERING O/ GYPSUM WALLBOARD
10.06	EXTRUDED ALUMINUM LETTERS
10.12	ROOM ID SIGN
10.22	TACTILE "EXIT" SIGN
10.79	CLEAR CORNER GUARD
11.27	FOOD SERVICE EQUIPMENT

NOTES

M — SUBSTRATE
F — MATERIAL TYPE - REFER TO FINISH SCHEDULE
1 — COLOR/TYPE - REFER TO FINISH SCHEDULE

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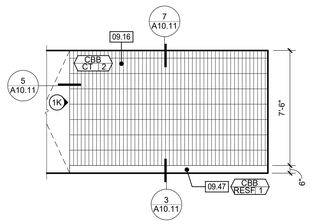
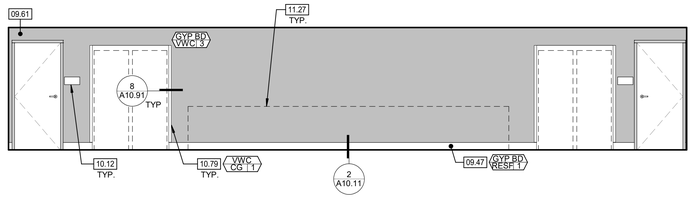
DATE: **2024.06.28** CLIENT PROJ NO: **3186071000**

SHEET:
A8.12

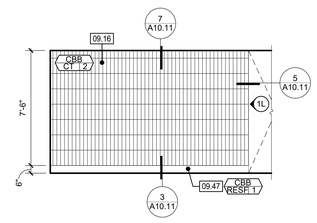
THE LINE SHOWN ABOVE IS EQUAL TO ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES ACCORDINGLY.



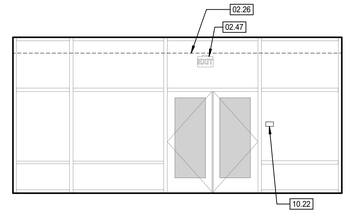
21 SERVING **2A** 1/4" = 1'-0"



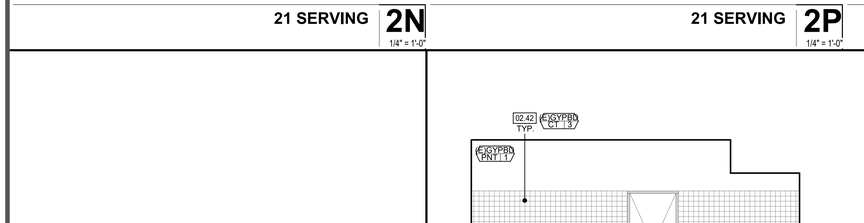
21 SERVING **2B** 1/4" = 1'-0"



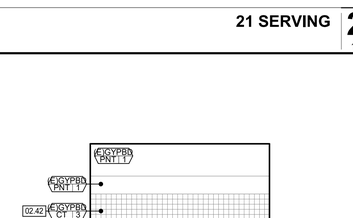
21 SERVING **2C** 1/4" = 1'-0"



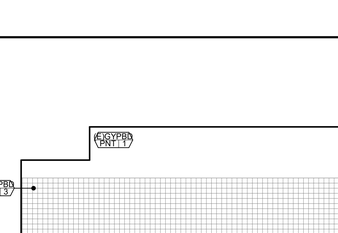
21 SERVING **2D** 1/4" = 1'-0"



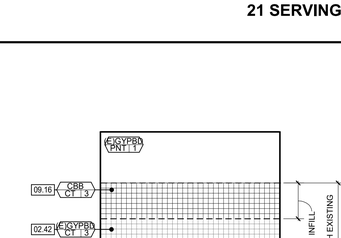
21 SERVING **2E** 1/4" = 1'-0"



21 SERVING **2F** 1/4" = 1'-0"



21 SERVING **2G** 1/4" = 1'-0"



21 SERVING **2H** 1/4" = 1'-0"

21 SERVING **2J** 1/4" = 1'-0"

21 SERVING **2K** 1/4" = 1'-0"

21 SERVING **2L** 1/4" = 1'-0"

21 SERVING **2M** 1/4" = 1'-0"

21 SERVING **2N** 1/4" = 1'-0"

21 SERVING **2P** 1/4" = 1'-0"

21 SERVING **2Q** 1/4" = 1'-0"

21 SERVING **2R** 1/4" = 1'-0"

15 SCULLERY **1A** 1/4" = 1'-0"

15 SCULLERY **1B** 1/4" = 1'-0"

15 SCULLERY **1C** 1/4" = 1'-0"

15 SCULLERY **1D** 1/4" = 1'-0"

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AGENCY APPROVAL:

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LICENSED ARCHITECT MICHAEL CHESTER SMITH C-25193 REN. 07/31/25 STATE OF CALIFORNIA

ISSUE

Δ	DESCRIPTION	DATE

KEYNOTES

02.26 (E) CEILING TO REMAIN; PROTECT IN PLACE
02.33 (E) STAINLESS STEEL COLUMN COVER; PROTECT IN PLACE
02.35 (E) BRICK TO BE PAINTED; PROTECT IN PLACE
02.42 (E) CERAMIC WALL TILE; PROTECT IN PLACE. PATCH BACK TILE AS NECESSARY FROM DEMOLITION SCOPE.
02.43 (E) COVE TILE BASE, PROTECT IN PLACE. PATCH BACK TILE AS NECESSARY FROM DEMOLITION SCOPE.
02.47 (E) EXIT SIGN
09.16 CERAMIC WALL TILE O/ CEMENTITIOUS BACKER BOARD
09.17 PORCELAIN WALL TILE O/ CEMENTITIOUS BACKER BOARD
09.47 COVE BASE
09.61 CUSTOM GRAPHIC VINYL WALL COVERING O/ GYPSUM WALLBOARD
09.63 6" RUBBER BASE
10.12 ROOM ID SIGN
10.22 TACTILE "EXIT" SIGN
10.76 MENU DISPLAY FRAME; CENTER ON WALL
10.78 STAINLESS STEEL CORNER GUARD
10.79 CLEAR CORNER GUARD
11.26 SOLID SURFACE COUNTERTOP | FOOD SERVICE
11.27 FOOD SERVICE EQUIPMENT

NOTES

M
F | T
SUBSTRATE
COLOR/TYPE - REFER TO FINISH SCHEDULE
MATERIAL TYPE - REFER TO FINISH SCHEDULE

FACILITY:
LUTHER BURBANK HIGH SCHOOL
3500 FLORIN RD
SACRAMENTO, CA 95823

PROJECT:
LUTHER BURBANK HIGH SCHOOL CAFETERIA MODERNIZATION

SHEET NAME:
INTERIOR ELEVATIONS

DSA SUBMITTAL

DATE: **06/26/24**
CLIENT PROJ NO: **3186071000**

SHEET:

A8.13

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS SHEETS ORIGINAL PAGE SIZE

GENERAL NOTES

THE PURPOSE OF THIS SHEET IS TO DESCRIBE AND ILLUSTRATE DOOR TYPES.

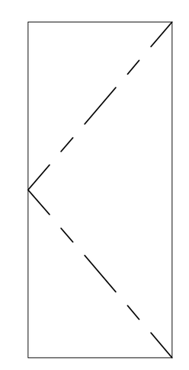
1. EXIT DOORS SHALL BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.
2. PANIC HARDWARE SHALL COMPLY WITH THE REQUIREMENTS OF CBC SECTION 1010.1.10. THE ACTIVATING MEMBER SHALL BE MOUNTED AT A HEIGHT OF NOT LESS THAN 36 INCHES NOR MORE THAN 44 INCHES ABOVE THE FLOOR. THE UNLATCHING FORCE SHALL NOT EXCEED 15 POUNDS WHEN APPLIED IN THE DIRECTION OF TRAVEL.
3. DOOR ASSEMBLIES, APPROACHES AND FINISH HARDWARE SHALL BE IN COMPLIANCE WITH DISABLED ACCESS CONSTRUCTION STANDARDS.
4. THE MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED THE FOLLOWING:
   A. EXTERIOR DOORS = 5.0 POUNDS
   B. INTERIOR DOORS = 5.0 POUNDS
   C. FIRE DOORS = 15.0 POUNDS
5. DOOR OPENING LOCATIONS:
   A. IMMEDIATELY 6" FROM F.O.S. ADJACENT TO A FLANKING WALL U.N.O.
   B. DOOR OPENINGS IN OTHER LOCATIONS ARE LOCATED BY DIMENSIONS.
6. SEE SPECIFICATIONS FOR HARDWARE SCHEDULE
7. FINISH FLOOR TRANSITIONS OCCUR AT CENTERLINE OF DOORS, UNLESS NOTED OTHERWISE
8. THE BOTTOM 10 INCHES OF ALL DOORS AND GATES TO HAVE SMOOTH UNINTERRUPTED SURFACE TO ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION (CBC. 11B-404.2.10).
9. DOOR THRESHOLD NOT TO EXCEED 1/2" WITH BEVELED SLOPE NOT MORE THAN 2:1 FOR THE UPPER 1/4" (CBC. 11B-303.3).

DOOR TYPE LEGEND

PNL-F- XX-

DOOR PANEL TYPE - SEE BELOW

DOOR PANEL MATERIAL /FINISH - SEE LEGEND



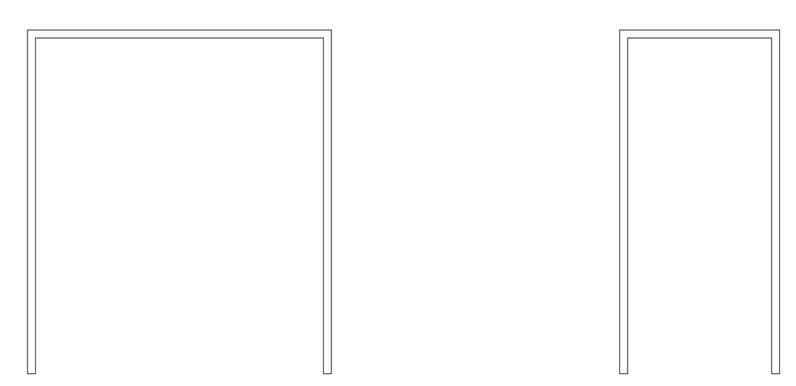
PNL-F

DOOR FRAME LEGEND

FRM-##XX-

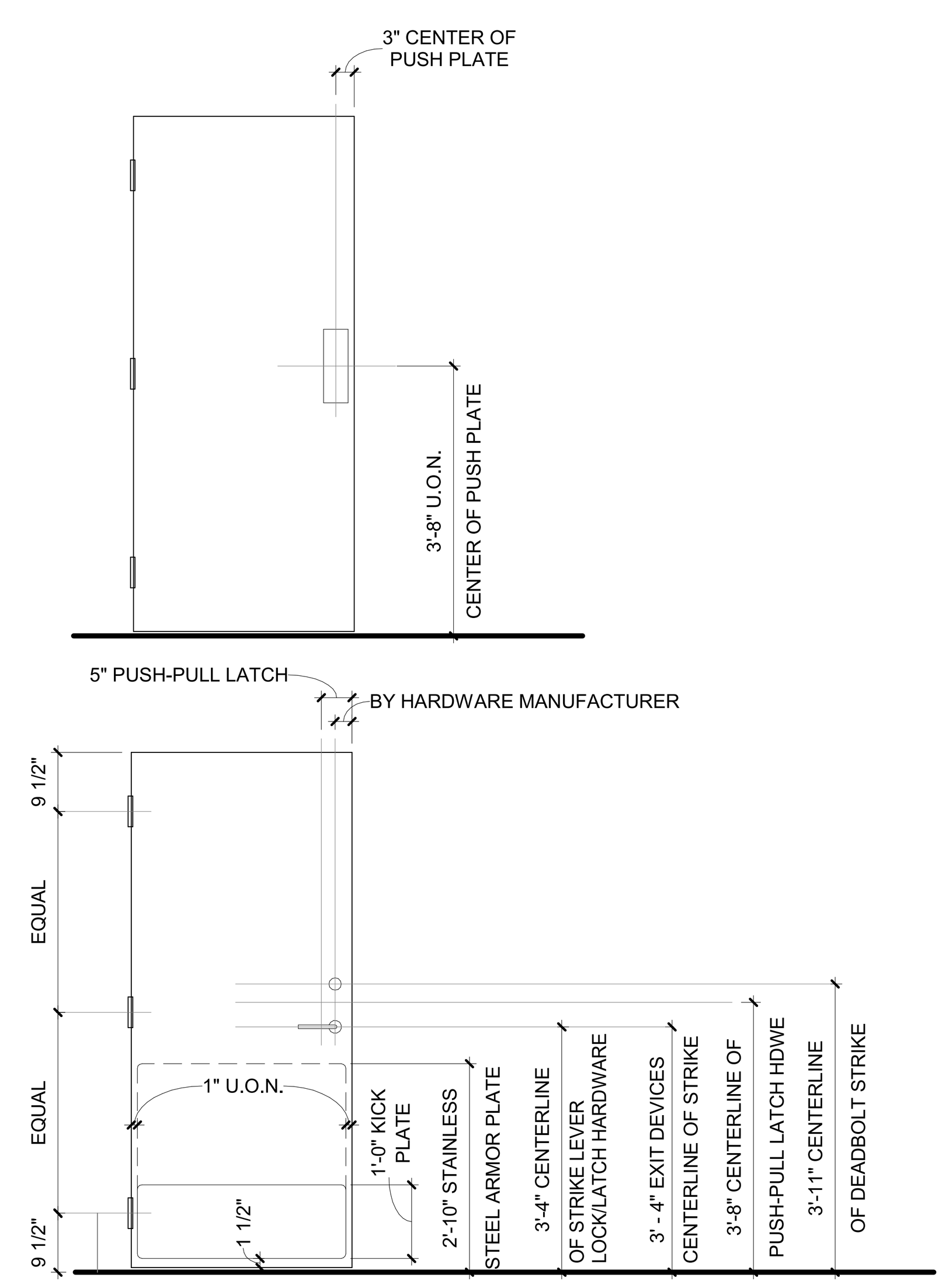
DOOR FRAME TYPE - SEE BELOW

DOOR FRAME MATERIAL / FINISH - SEE LEGEND



FRM-00HM FRM-00HM2

TYPICAL FINISH HARDWARE



NOTES:

1. KICK AND ARMOR PLATES TO BE 1/2" FROM EDGE OF DOOR LEAVES FOR PAIR OF DOORS.
2. ARMOR PLATE AFFIXED TO FIRE RATED DOOR SHALL BE LABELED.

DOOR SCHEDULE

DOOR	SIZE			DOOR	FRAME					DETAIL			
	WIDTH												
NUMBER	PANEL 1	PANEL 2	HEIGHT	TYPE	TYPE	FIRE RATING (MINUTES)	HARDWARE GROUP	PANIC HARDWARE	UNDERCUT	HEAD	JAMB	SILL	COMMENTS
1ST FLOOR													
8A	3'-0"		7'-0"	PNL-F-WD	FRM-00HM2		01		0"	2/ A10.21	2/ A10.21	4/ A10.21	
9A	3'-0"		7'-0"	PNL-F-WD	FRM-00HM2		02		0"	2/ A10.21	2/ A10.21	4/ A10.21	
22A	3'-0"		7'-0"	PNL-F-WD	FRM-00HM2		03		0"	2/ A10.21	2/ A10.21	4/ A10.21	
22B	3'-0"		7'-0"	PNL-F-WD	FRM-00HM2		03		0"	2/ A10.21	2/ A10.21	4/ A10.21	

DOOR MATERIAL/FINISH LEGEND

A	ALARM CONTACT
AL	ALUMINUM
ADG-1	ACOUSTIC DOOR GASKET
AO	AUTOMATIC DOOR OPERATOR
CA	CLEAR ANODIZED
CL	COMBO LOCK
CR	CARD READER
CT	CLEAR TEMPERED GLAZING
CW	CURTAIN WALL
DE	DELAYED EGRESS
EB	"PUSH TO EXIT" EMERGENCY BUTTON
EL	ELECTRICAL LOCK
EMC	ELECTRO MECHANICAL CLOSER
FA	FIRE ALARM INTERFACE RELAY
FF	FACTORY FINISHED
FG	FIRE RATED GLASS
FGF	FIRE RATED GLASS & FRAMING
HM	HOLLOW METAL
ID	INTEGRATED DOOR ASSEMBLY
IGU	INSULATED GLAZING UNITS
IP	INFILL PANEL
KD	KNOCK DOWN FRAME
MHO	MAGNETIC HOLD OPEN
NR	NOT RATED
PH	PANIC HARDWARE
PL	PLASTIC LAMINATE
PT	PAINT
REX	REQUEST TO EXIT MOTION SENSOR
RF	RF COPPER SHIELDED NON-FERROUS SYSTEM
ST	STAIN GRADE WOOD VENEER
SC	SOLID CORE WOOD DOOR
SG	SAFETY GLAZING
SHD	SHIELDED DOOR FRAME / GLAZING
SP	SPANDREL GLAZING
STL	STEEL
SM	SMOKE BARRIER SEAL
SF	STOREFRONT SYSTEM
UC	UNDERCUT
WD	WOOD
WS	WAVE SENSOR

AGENCY APPROVAL:

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LICENSED ARCHITECT MICHAEL CHESTER RATH C-25193 REN. 07/31/25 STATE OF CALIFORNIA

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Δ	DESCRIPTION	DATE

NOTES

1. FOR DOORS INDICATED WITH "ADG-1" SEE ACOUSTIC DOOR GASKET SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS IN ADDITION TO ANY REQUIREMENTS OUTLINED IN THE DOOR HARDWARE GROUP.

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SHEET NAME:
DOOR SCHEDULE

DSA SUBMITTAL

DATE: 2024.06.28 CLIENT PROJ NO: 3186071000

SHEET:
A9.11

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ARCHITECTURAL WOOD CASEWORK

TAG	MANUFACTURER	COLOR NAME	COLOR #	FINISH	NOTE
PLAM1	FORMICA	CAMEL ELM	5795-NG	NATURAL GRAIN	
PLAM2	WILSONART	FLORENCE WALNUT	7993-38	FINE VELVET	

PLASTIC PANELING

TAG	MANUFACTURER	COLLECTION	COLOR NAME	COLOR #	FINISH	NOTE
FRP1	MARLITE	STANDARD FRP	WHITE	S100G	SMOOTH	

TILING

TAG	MANUFACTURER	APPLICATION	COLLECTION	COLOR NAME	COLOR #	FINISH	SIZE	JOINT WIDTH	GROUT	NOTE
CT1	DALTILE	WALL	ACREAGE	HIGHLAND	AC14	MATTE	1" X 24"	1/8"	GT1	STACKED VERTICAL
CT2	CROSSVILLE	WALL	HANDWRITTEN	UNSCRIPTED	HWR01	GLOSS	3" X 12"	1/8"	GT2	STACKED VERTICAL
CT3	DALTILE	WALL	COLOR WHEEL CLASSIC	TBD	TBD	TBD	4" X 4"	TBD	GT3	TO MATCH EXISTING
CT4	DALTILE	FLOOR	TBD	TBD	TBD	TBD	8" X 8"	TBD	GT4	TO MATCH EXISTING
GT1	MAPEI CORPORATION	WALL	KERAPOXY	TBD	TBD	-	-	-	-	
GT2	MAPEI CORPORATION	WALL	KERAPOXY	TBD	TBD	-	-	-	-	
GT3	MAPEI CORPORATION	WALL	KERAPOXY	TBD	TBD	-	-	-	-	TO MATCH EXISTING
GT4	MAPEI CORPORATION	FLOOR	KERAPOXY	TBD	TBD	-	-	-	-	TO MATCH EXISTING

ACOUSTICAL TILE CEILINGS

TAG	MANUFACTURER	COLLECTION	EDGE TYPE	PANEL SIZE	PANEL COLOR	ATTACHMENT	NOTE
ACT1	CERTAINTEED	ECOPHON FOCUS B	BEVELED	24" X 24" X 3/4"	DARK DIAMOND	ADHESIVE	
ACT2	CERTAINTEED	ECOPHON FOCUS B	BEVELED	24" X 24" X 3/4"	WHITE	ADHESIVE	

RESILIENT BASE & ACCESSORIES

TAG	MANUFACTURER	TYPE	COLOR NAME	COLOR #	HEIGHT	NOTE
RB1	MANNINGTON	BURKEBASE TYPE TP 1/8"	TBD	TBD	6"	COVED PROFILE

RESINOUS FLOORING

TAG	MANUFACTURER	COLLECTION	STYLE	COLOR NAME	FINISH	NOTE
RESF1	DEX-O-TEX	TERRACOLOR	N/A	SPEEDWAY GRAY	QUIK-GLAZE CLEAR	

WALL COVERINGS

TAG	MANUFACTURER	TYPE	BACKING	COLLECTION	GRAPHIC / COLORWAY	FIRE RATING	NOTE
VWC1	COLOUR & DESIGN	TYPE II	WOVEN	LATTICE SILK	BONFIRE ASH	CLASS A	
VWC2	COLOUR & DESIGN	TYPE II	WOVEN	URBAN FOREST	WASHED R.C.	CLASS A	
VWC3	KOROSEAL	TYPE II	WOVEN	DIGITAL SURFACES WALLCOVERING	CUSTOM GRAPHIC / FINE TEXTURE SUBSTRATE #DS0103	CLASS A	ARCHITECT TO PROVIDE GRAPHIC FILE.

TACKABLE WALL COVERINGS

TAG	MANUFACTURER	COLLECTION / PRODUCT	COLOR	COLOR #	NOTE
TWC1	KOROSEAL	WALLTALKERS / TAC-WALL	ACORN	86	

SOUND ABSORBING WALL UNITS

TAG	MANUFACTURER	COLLECTION	EDGE TYPE	SIZE	COLOR	FIRE RATING	ATTACHMENT	NOTE
SAWU1	TURF	GRILLE - G8 PANEL	CAPPED	24" X CUSTOM	PLANKED OAK	CLASS A	ADHESIVE	

PAINTING

TAG	MANUFACTURER	COLOR NAME	COLOR #	NOTE
PNT1	DUNN-EDWARDS	COCONUT GROVE	DEHW03	MAIN FIELD, U.N.O.
PNT2	DUNN-EDWARDS	DOWNPOUR	DE5871	
PNT3	DUNN-EDWARDS	OUTER SPACE	DE5824	
PNT4	DUNN-EDWARDS	HAYSTACKS	DE5432	
PNT5	DUNN-EDWARDS	LEGENDARY GRAY	DE6369	
PNT6	DUNN-EDWARDS	BLACK BEAN	DE6385	
PNT7	DUNN-EDWARDS	TBD	TBD	DOORS & FRAMES

WALL AND DOOR PROTECTION

TAG	MANUFACTURER	COLLECTION	SIZE	COLOR NAME	COLOR #	FINISH	NOTE
CG1	INPRO	CLEAR CORNER GUARDS	2 1/2" X 2 1/2" X 8'	-	-	-	FASTENER MOUNTED
CG2	INPRO	SURFACE MOUNT STAINLESS STEEL CORNER GUARD	2" X 2" X 8'	-	-	NO. 4 SATIN	ADHESIVE MOUNTED

COUNTERTOPS

TAG	MANUFACTURER	TYPE	COLOR NAME	FINISH	NOTE
SSM1	WILSONART	SOLID SURFACE	COCONUT OIL	SEMIGLOSS	
SSM2	WILSONART	SOLID SURFACE	BLACK ONYX MIRAGE	SEMIGLOSS	

UPHOLSTERED SEATING

TAG	MANUFACTURER	TYPE	COLOR NAME	COLOR #	NOTE
SCF1	MOMENTUM	SILICA LEATHER	INK	-	

SUBSTRATE ABBREVIATIONS

BRK	BRICK
CBB	CEMENTITIOUS BACKER BOARD
GYP BD	GYPSUM BOARD
MDF	MEDIUM DENSITY FIBERBOARD
PLWD	PLYWOOD
SCP	SEAT CUSHION PADDING

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C-25193
REN. 07/31/25
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PROJECT:
LUTHER BURBANK HIGH SCHOOL CAFETERIA MODERNIZATION

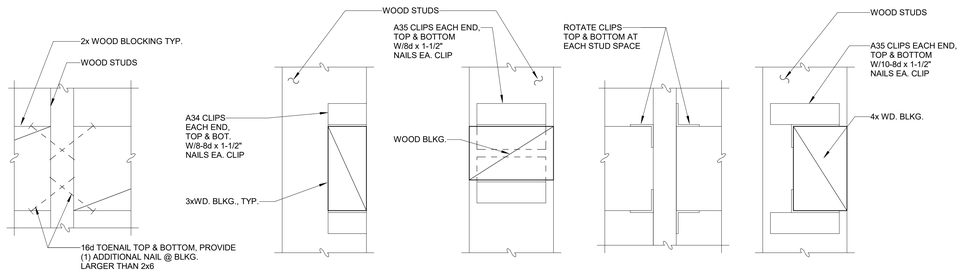
SHEET NAME:
AIA MATERIALS PLEDGE SCHEDULES

DSA SUBMITTAL

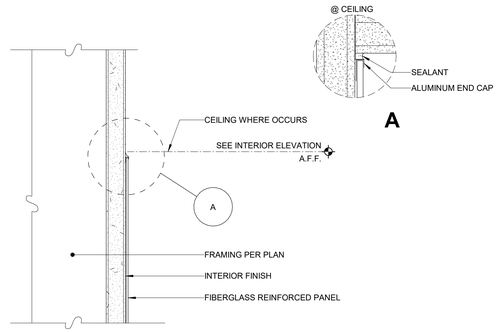
DATE: 2024.06.28 CLIENT PROJ NO: 3186071000

SHEET:
A9.31

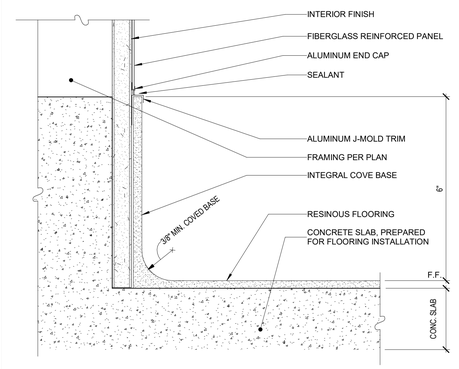
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH (1") LONG WHEN PLOTTED ON ORIGINAL SHEET. ADJUST SCALES ACCORDINGLY



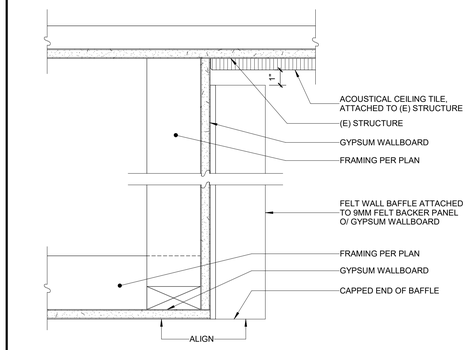
TYPICAL WOOD BLOCKING | 12
3" = 1'-0"



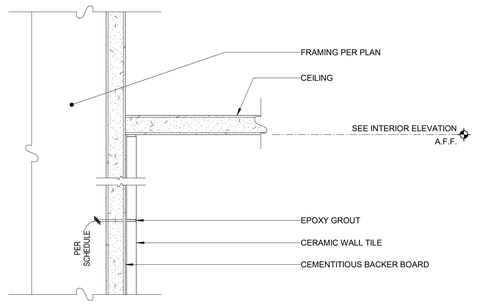
FRP - HEAD | 8
6" = 1'-0"



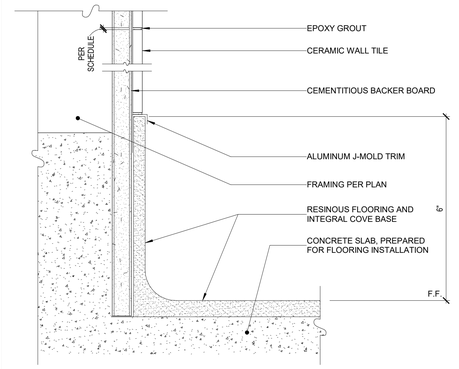
COVE BASE @ FRP | 4
6" = 1'-0"



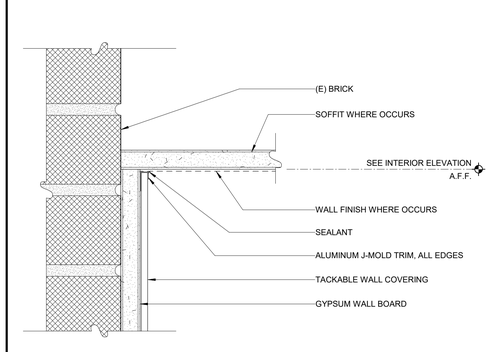
FELT WALL BAFFLES | 11
3" = 1'-0"



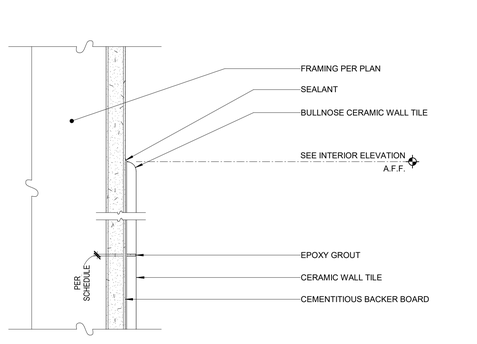
TILE - HEAD @ CEILING | 7
6" = 1'-0"



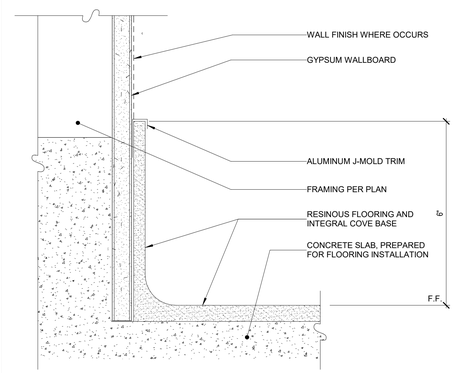
COVE BASE @ TILE | 3
6" = 1'-0"



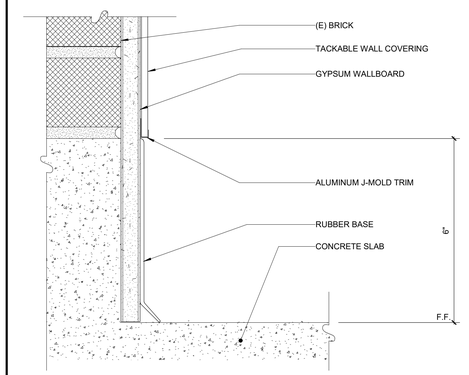
TACKABLE WALL COVERING - HEAD | 10
6" = 1'-0"



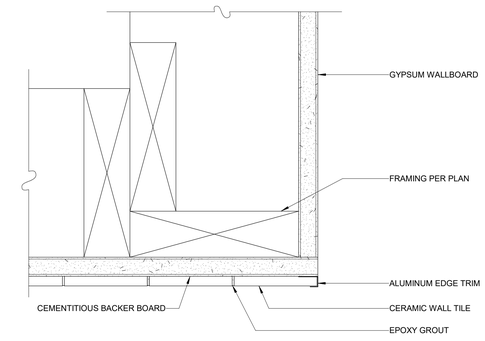
TILE - HEAD | 6
6" = 1'-0"



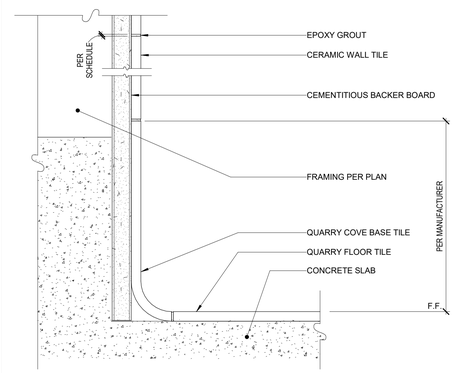
COVE BASE @ GYPSUM WALLBOARD | 2
6" = 1'-0"



TACKABLE WALL COVERING - BASE | 9
6" = 1'-0"



TILE @ OUTSIDE CORNER | 5
6" = 1'-0"



COVE TILE BASE | 1
6" = 1'-0"

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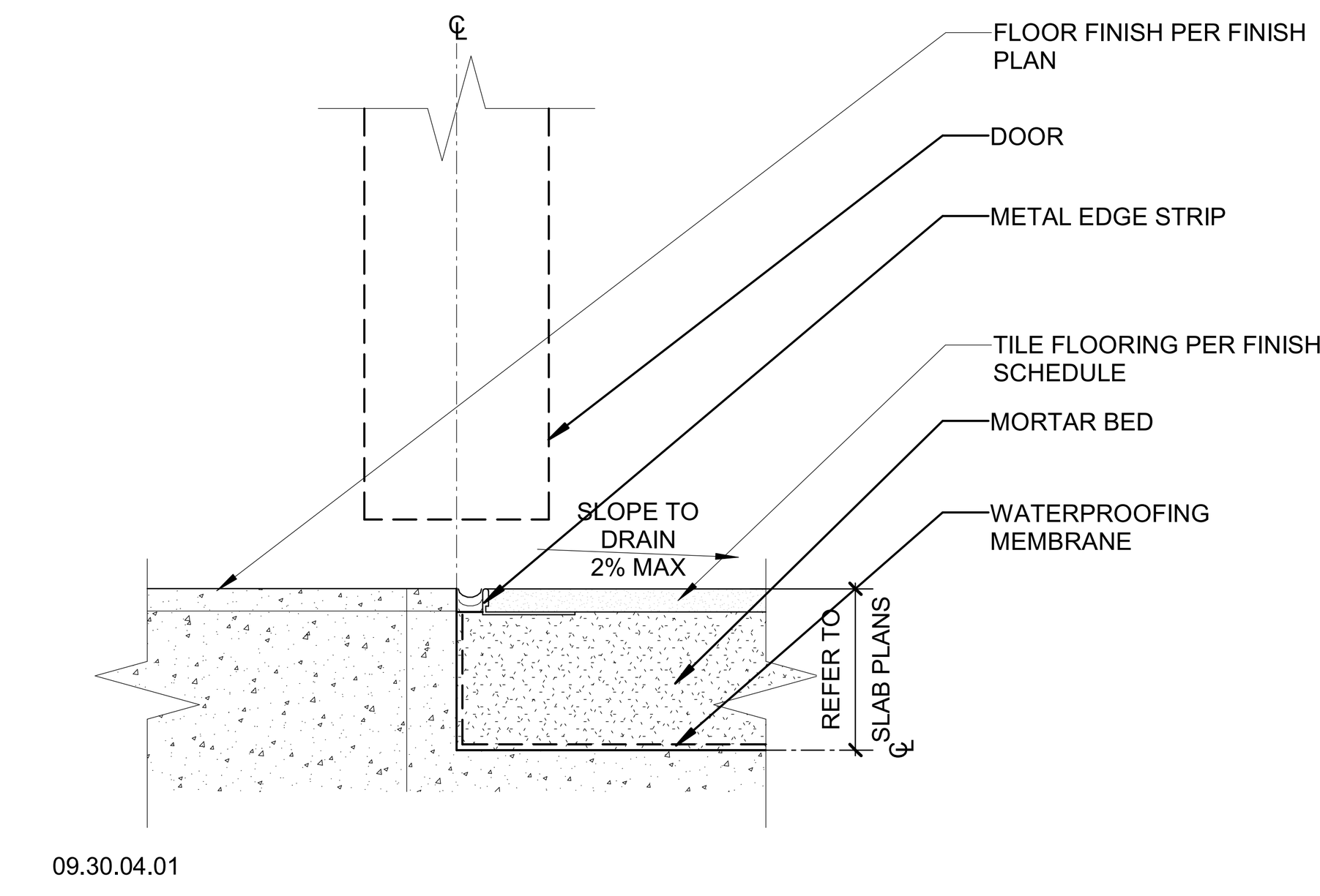
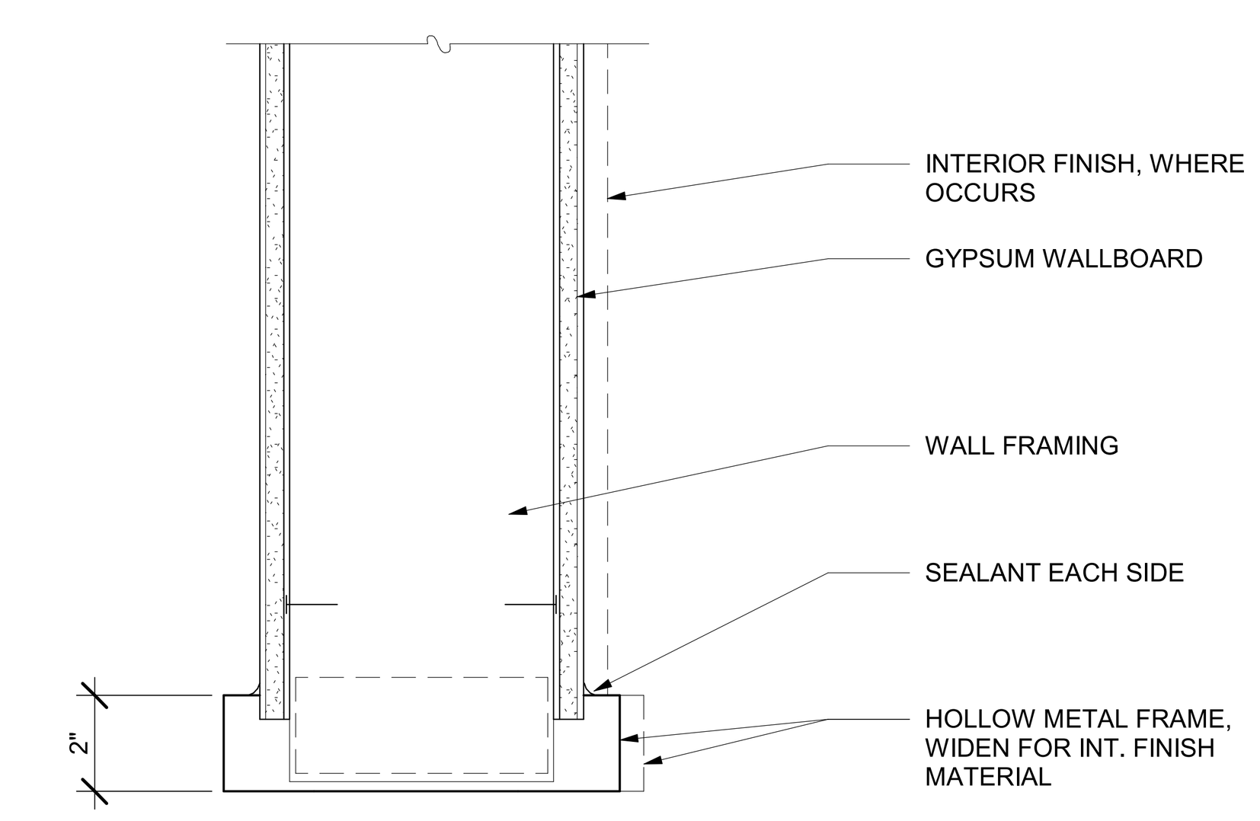
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS SHEETS ORIGINAL PAGE SIZE



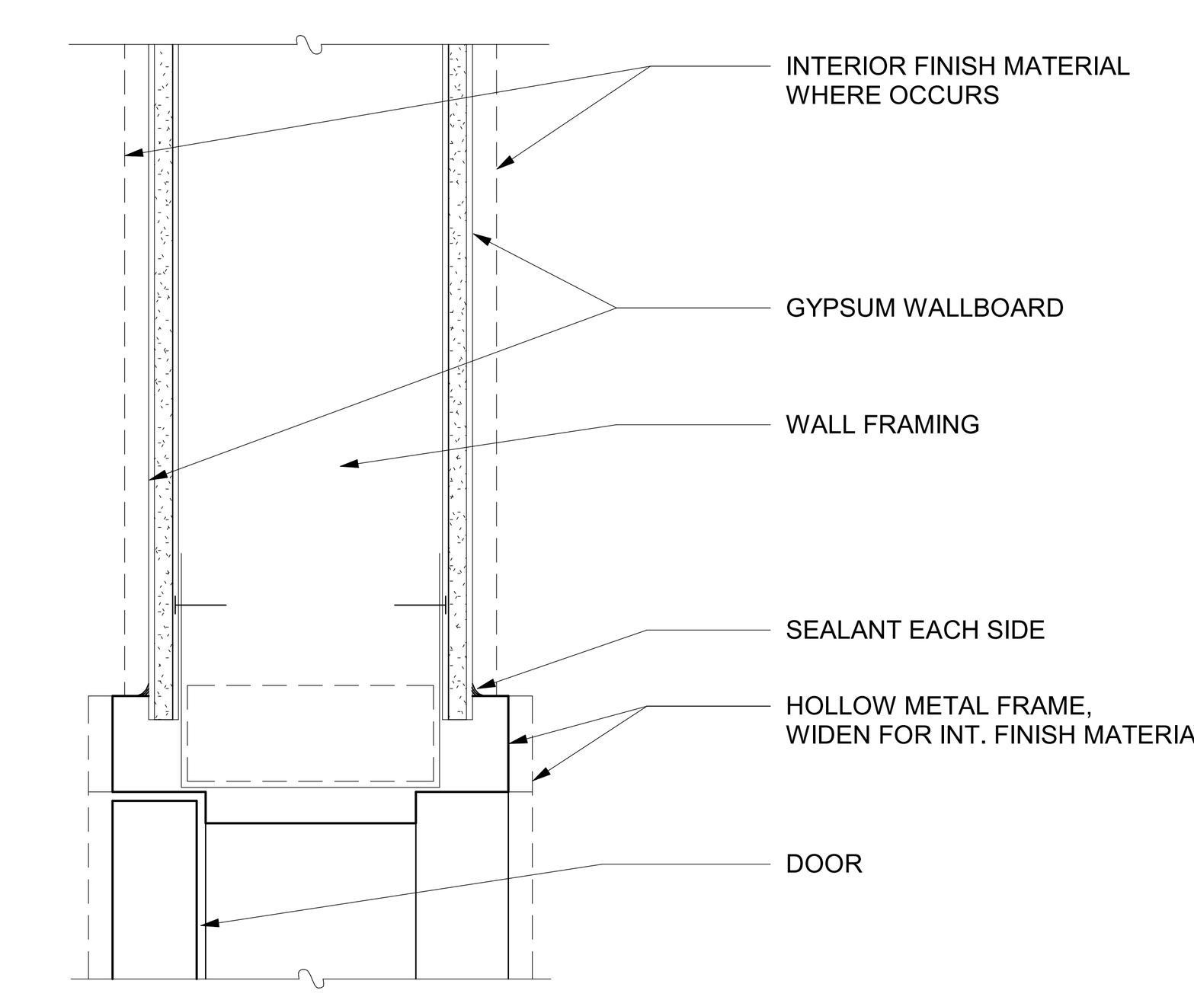
TRANSITION AT DOORWAY AT WET AREA 4
6" = 1'-0"



NOTE :

1. FOR FRAME DIMENSIONS AND DETAIL, SEE 1/A10.21 SIM.

INTERIOR CASED OPENING HEAD/JAMB 3
3" = 1'-0"



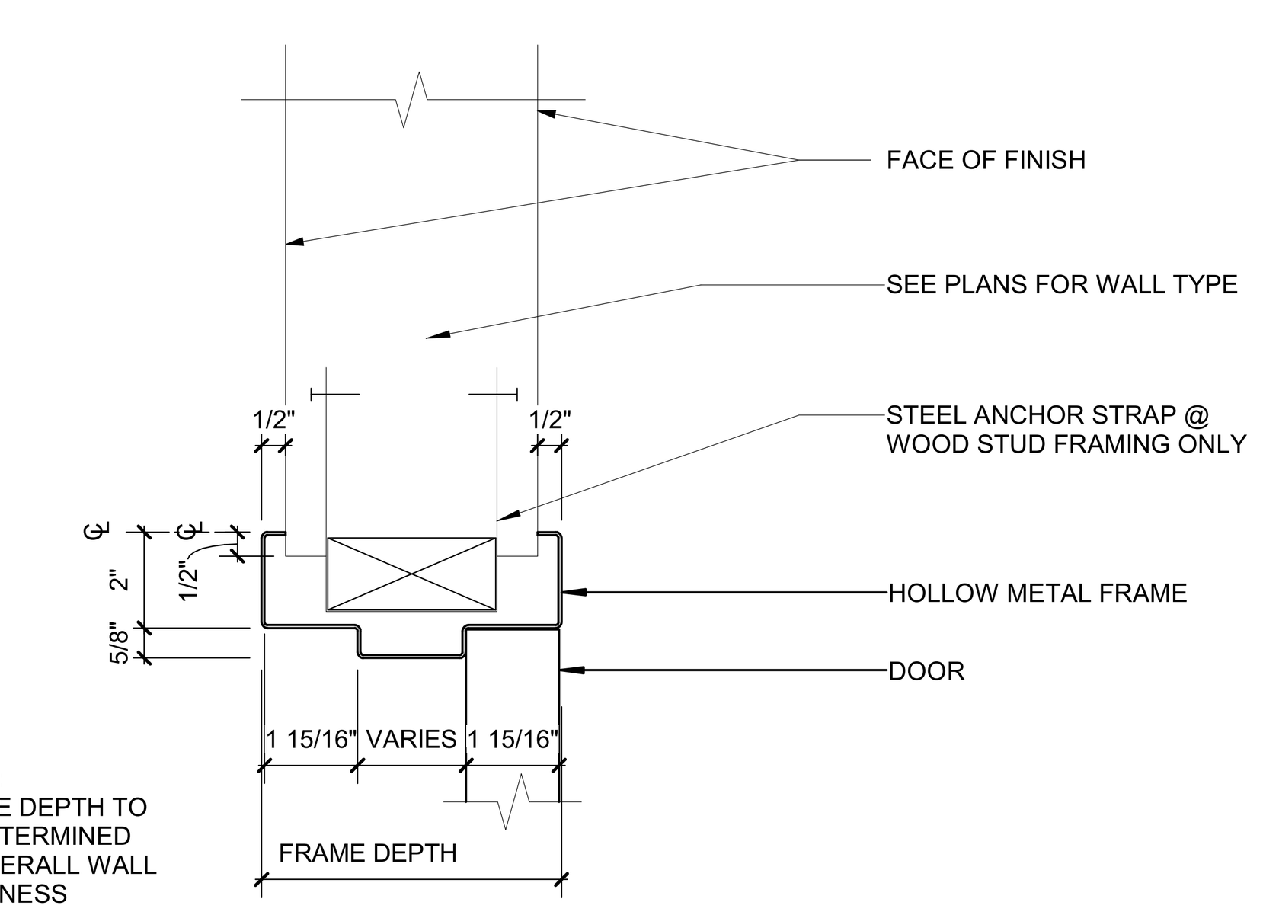
NOTES:

1. FOR FRAME DIMENSIONS AND DETAIL SEE 1/A10.21

INTERIOR DOOR HEAD/JAMB 2
3" = 1'-0"

NOTE:
FRAME DEPTH TO BE DETERMINED BY OVERALL WALL THICKNESS

08.12.01.01



INTERIOR HM DOOR HEAD / JAMB 1
3" = 1'-0"

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LICENSED ARCHITECT
MICHAEL CHESTER RATH
C-25193
REN. 07/31/25
STATE OF CALIFORNIA

ISSUE

Δ	DESCRIPTION	DATE

KEYNOTES

NOTES

FACILITY:
LUTHER BURBANK HIGH SCHOOL
3500 FLORIN RD
SACRAMENTO, CA 95823

PROJECT:
LUTHER BURBANK HIGH SCHOOL CAFETERIA MODERNIZATION

SHEET NAME:
DOOR DETAILS

DSA SUBMITTAL

DATE: 12/21/21 CLIENT PROJ NO: 3186071000

SHEET:
A10.21

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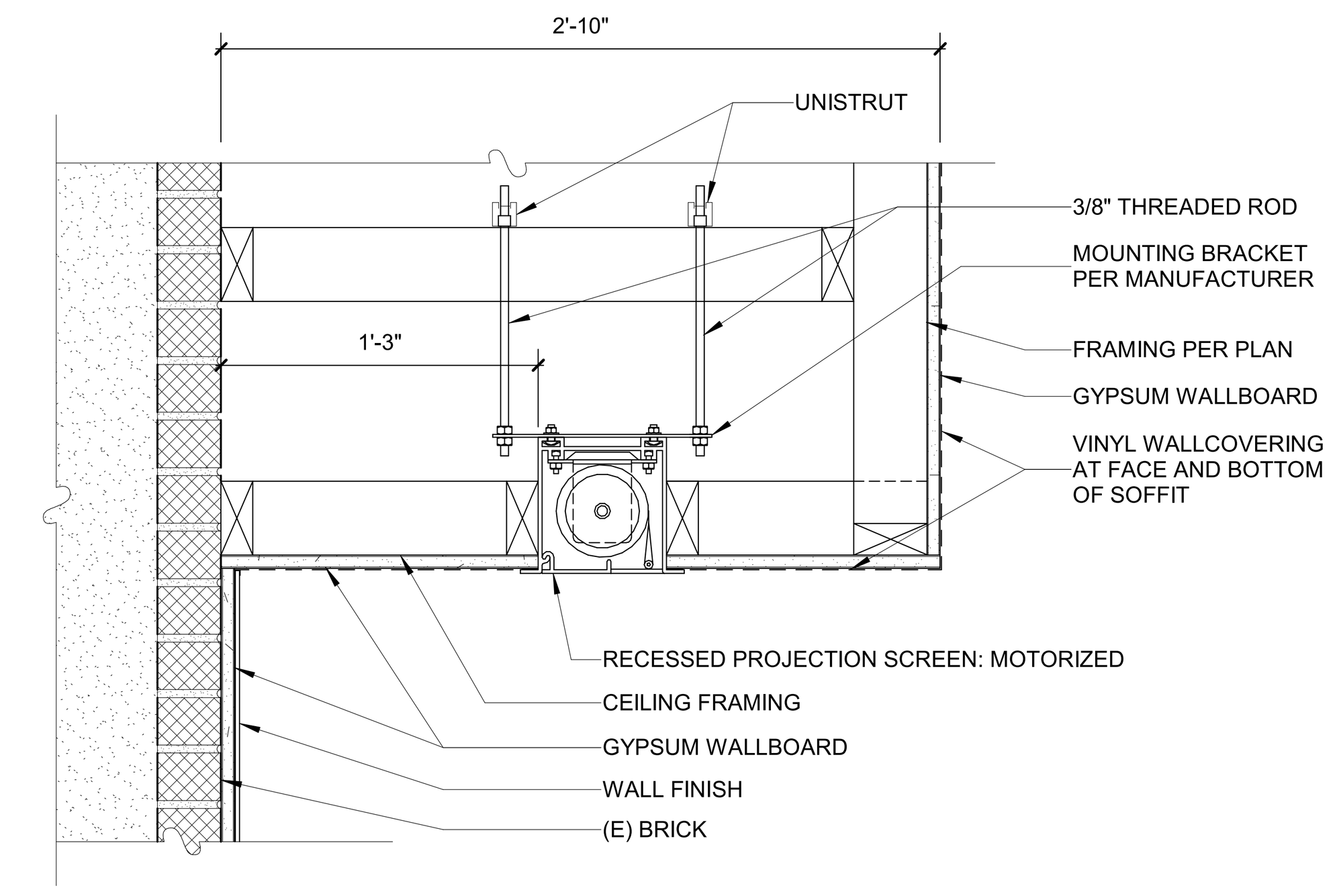
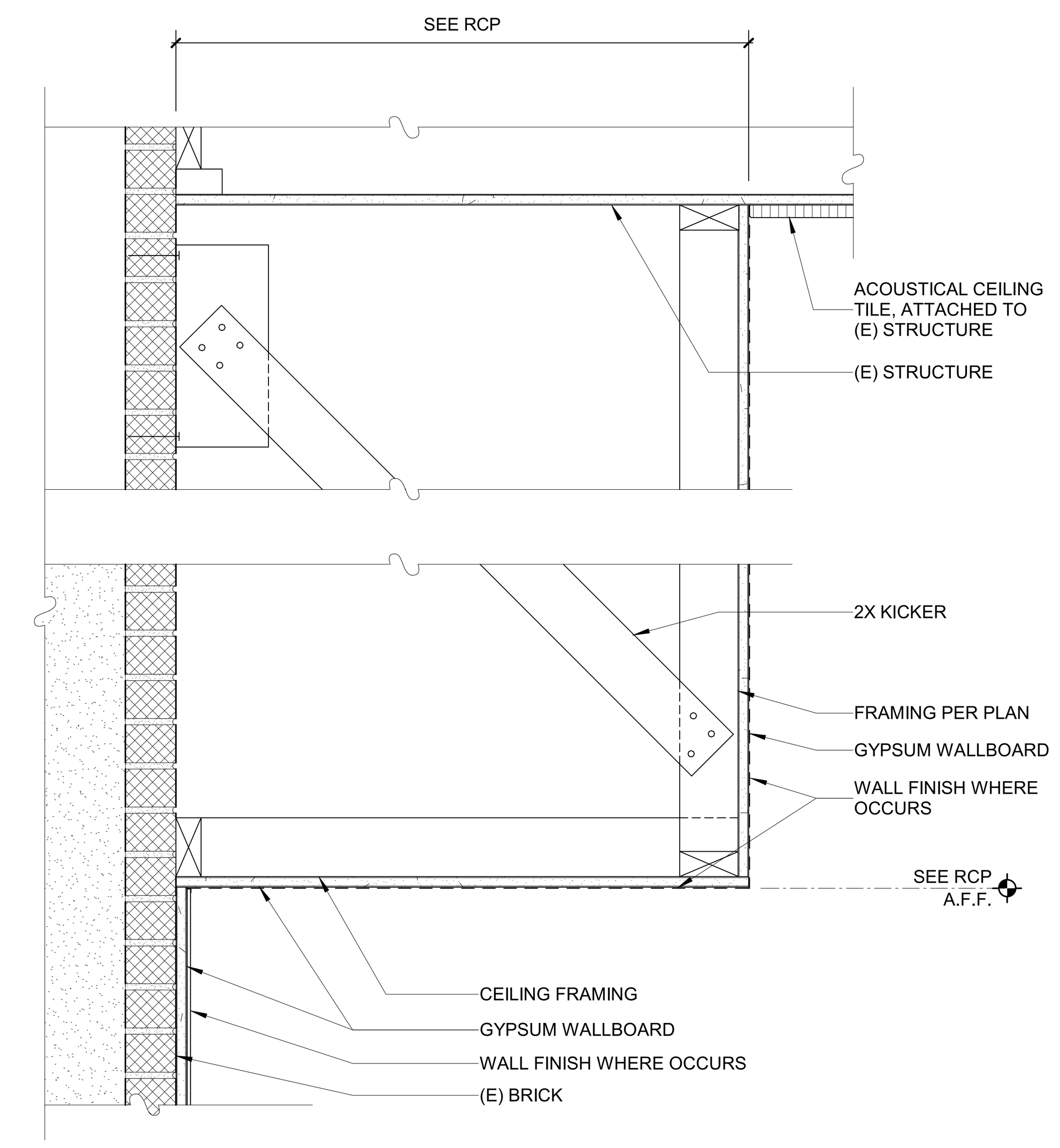
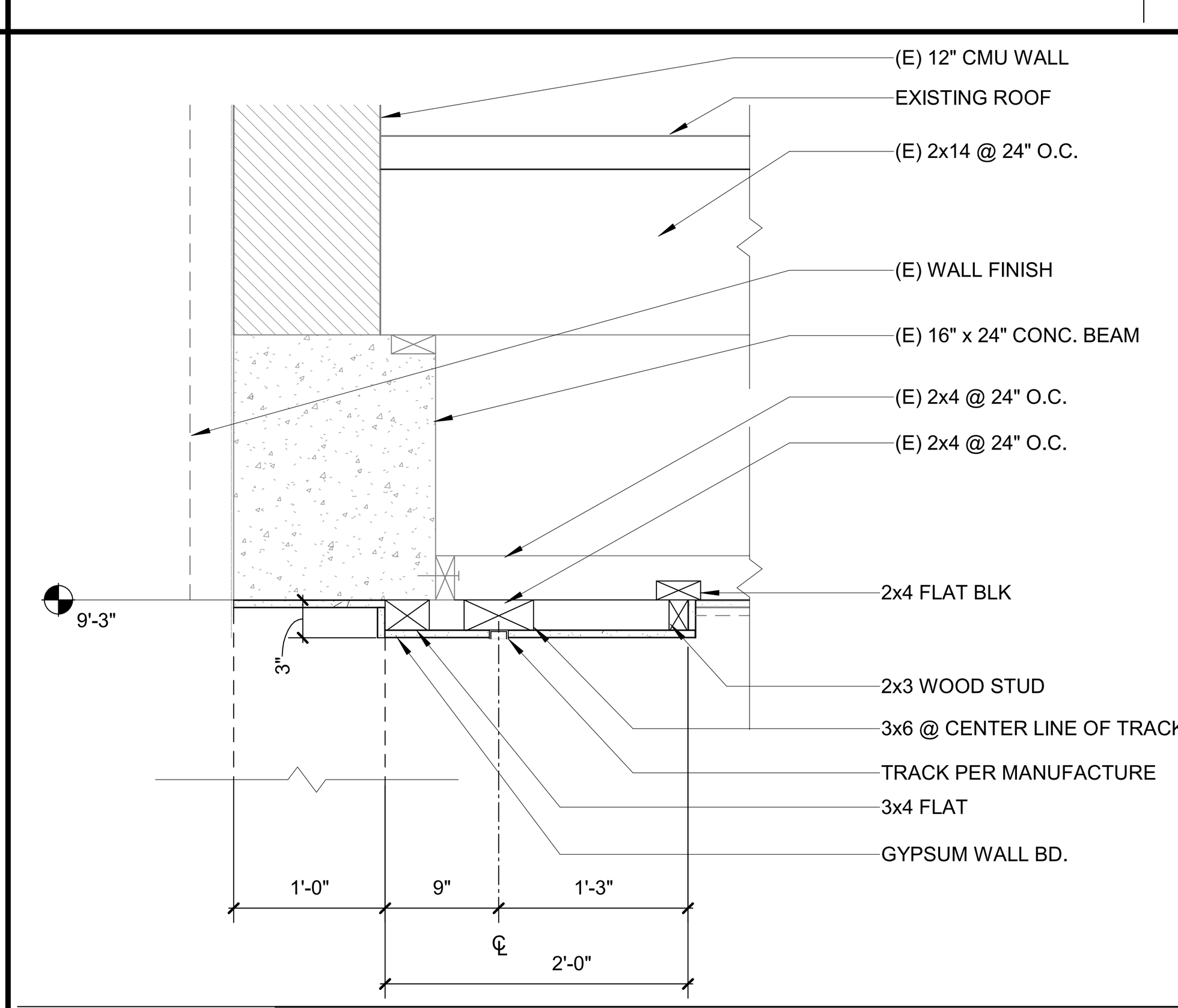


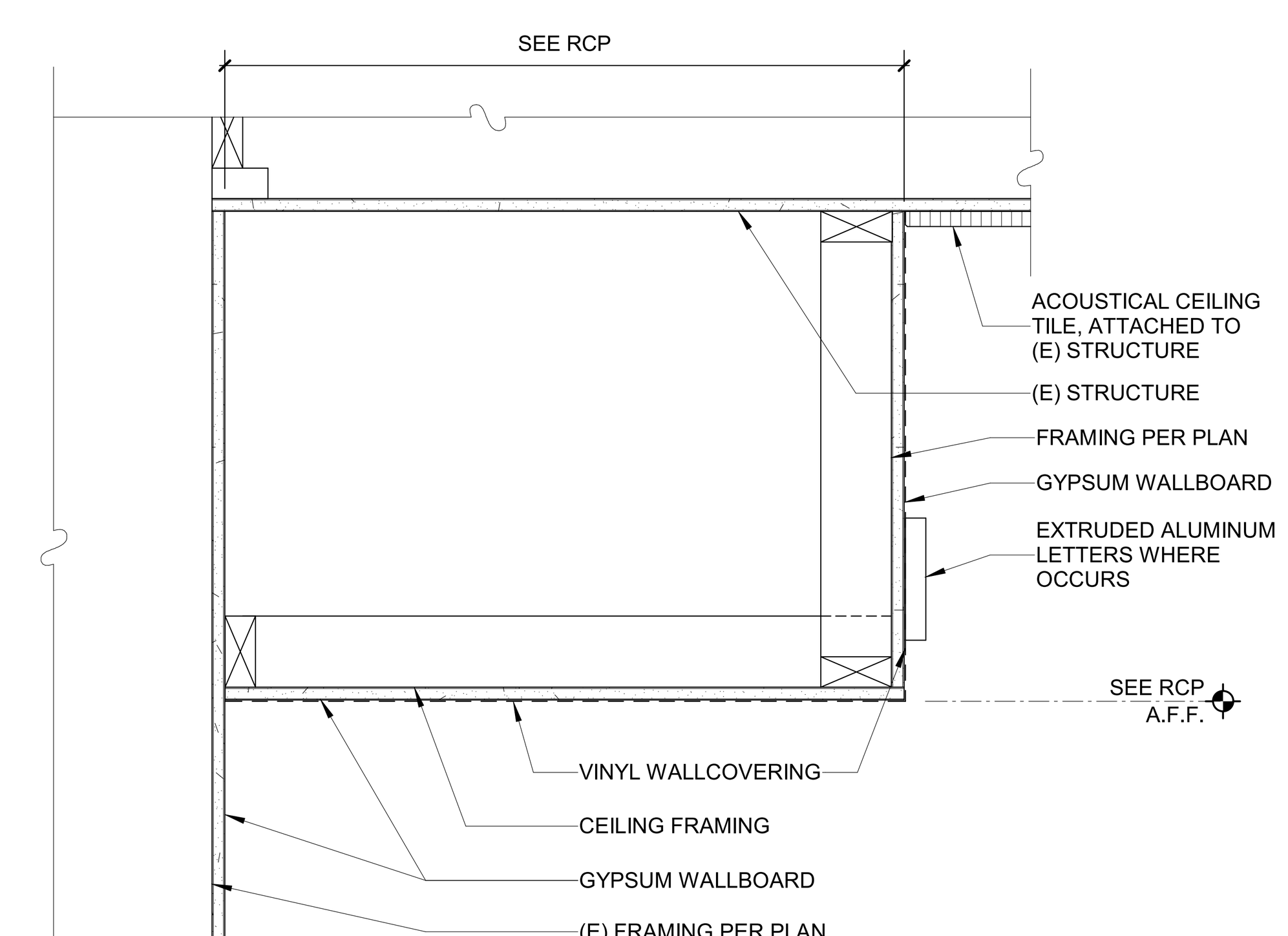
RECESSED PROJECTION SCREEN 4
1 1/2" = 1'-0"



SOFFIT @ CAFETERIA 2
1 1/2" = 1'-0"



SECTION AT TOP OF TRACK 5
1" = 1'-0"



SOFFIT @ SNACK BAR 1
1 1/2" = 1'-0"

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LUTHER BURBANK HIGH SCHOOL CAFETERIA MODERNIZATION

SHEET NAME:
CEILING DETAILS

DSA SUBMITTAL

DATE: 10/04/21 CLIENT PROJ NO: 3186071000

SHEET:
A10.31

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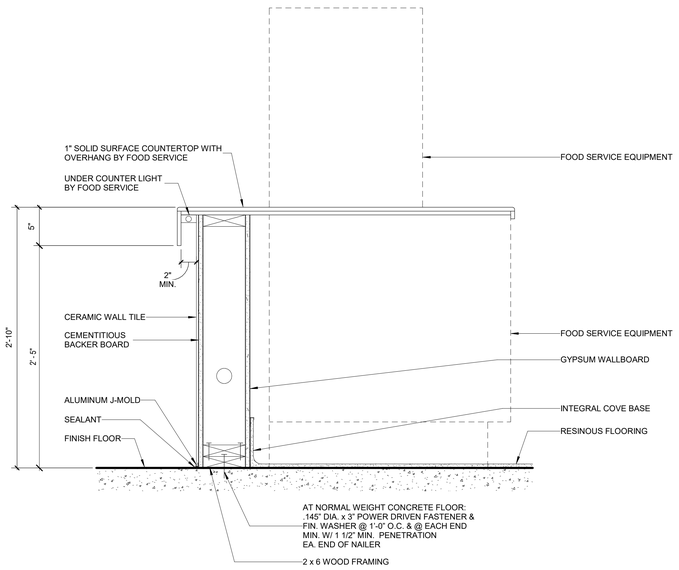
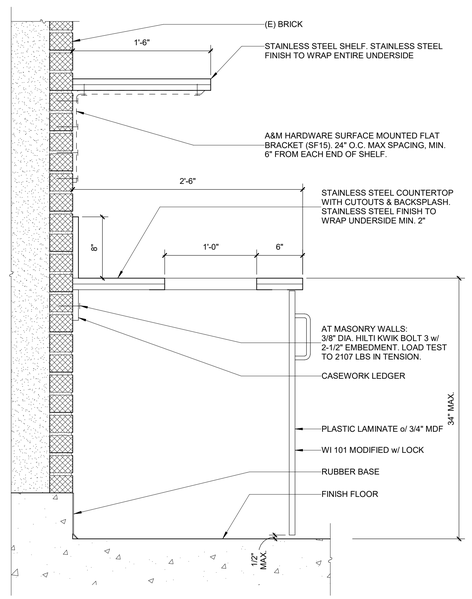
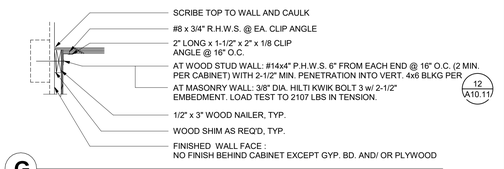


SERVING COUNTER 11
1 1/2" = 1'-0"

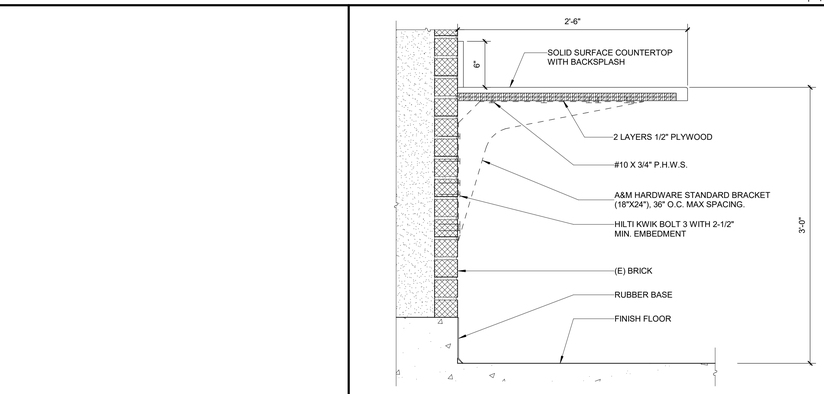


BUILT-IN TRASH / TRAY RETURN 7
1 1/2" = 1'-0"

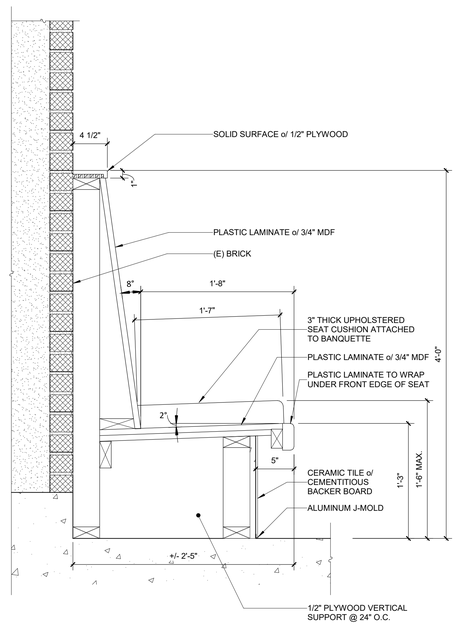


CABINETS - N.T.S.

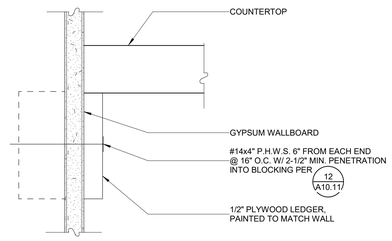
BASE CABINET ANCHOR 1
1 1/2" = 1'-0"



SOLID SURFACE COUNTERTOP 10
1 1/2" = 1'-0"



BANQUETTE SEATING 5
1 1/2" = 1'-0"



COUNTERTOP LEDGER 9
6" = 1'-0"

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LICENSED ARCHITECT MICHAEL CHESTER SMITH C-25193 REN. 07/31/25 STATE OF CALIFORNIA

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3500 FLORIN RD
SACRAMENTO, CA 95823

PROJECT:
LUTHER BURBANK HIGH SCHOOL CAFETERIA MODERNIZATION

SHEET NAME:
CASEWORK DETAILS

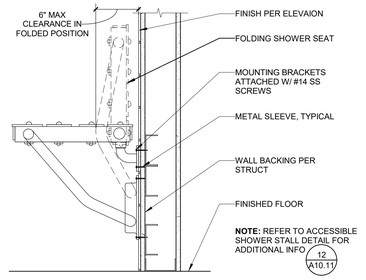
DSA SUBMITTAL

DATE: **12/21/21** | CLIENT PROJ NO: **3186071000**

SHEET:

A10.61

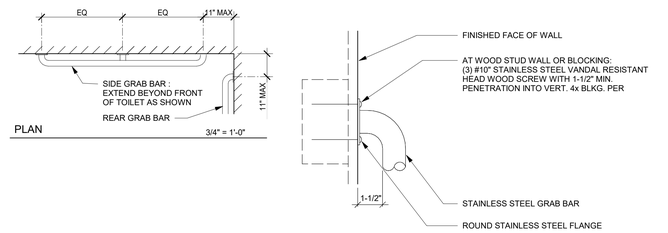
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ORIGINAL 24X36 SHEETS. IF NOT, ADJUST SCALE ACCORDINGLY



10.28.05.01

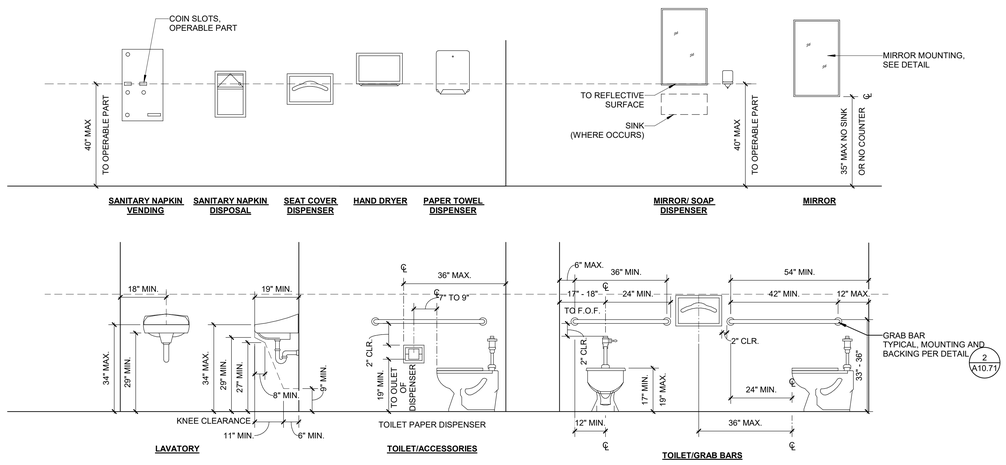
FOLDING SHOWER SEAT **3**

1 1/2" = 1'-0"



GRAB BAR WITH METAL STUD BACKING **2**

3" = 1'-0"



NOTE:
1. PROVIDE BLOCKOUT FOR WALL MOUNTED FIXTURES WHERE CONCRETE CURB OCCURS.
2. WATER SUPPLY AND DRAIN PIPES SHALL BE INSULATED AND THERE SHALL BE NO SHARP OR ABRASIVE ELEMENTS UNDER LAVATORY.
3. HAND OPERATED FLUSH ACTUATOR ON OPEN SIDE OF WATER CLOSET.

10.28.01.01

TYPICAL ACCESSIBLE TOILET FIXTURES AND ACCESSORY MOUNTING **1**

1/2" = 1'-0"

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ISSUE

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KEYNOTES

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LUTHER BURBANK HIGH SCHOOL
3500 FLORIN RD
SACRAMENTO, CA 95823

PROJECT:
LUTHER BURBANK HIGH SCHOOL CAFETERIA MODERNIZATION

SHEET NAME:
ACCESSIBILITY DETAILS

DSA SUBMITTAL

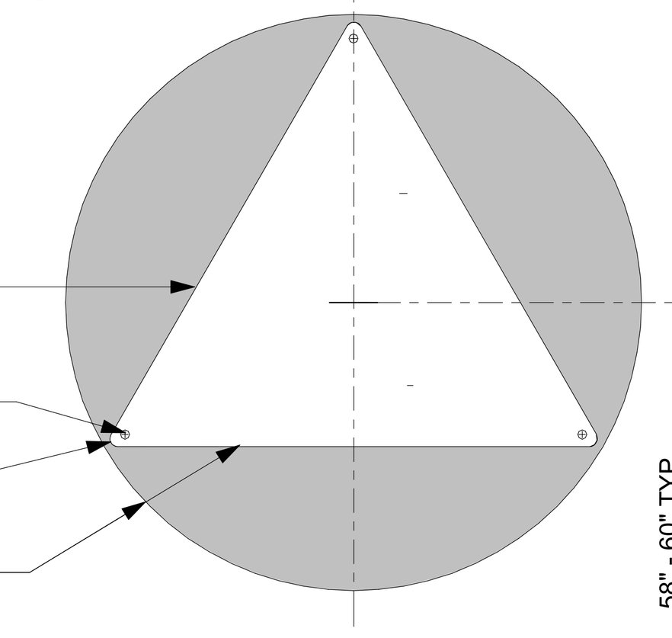
DATE: **12/21/21** | CLIENT PROJ NO: **3186071000**

SHEET:

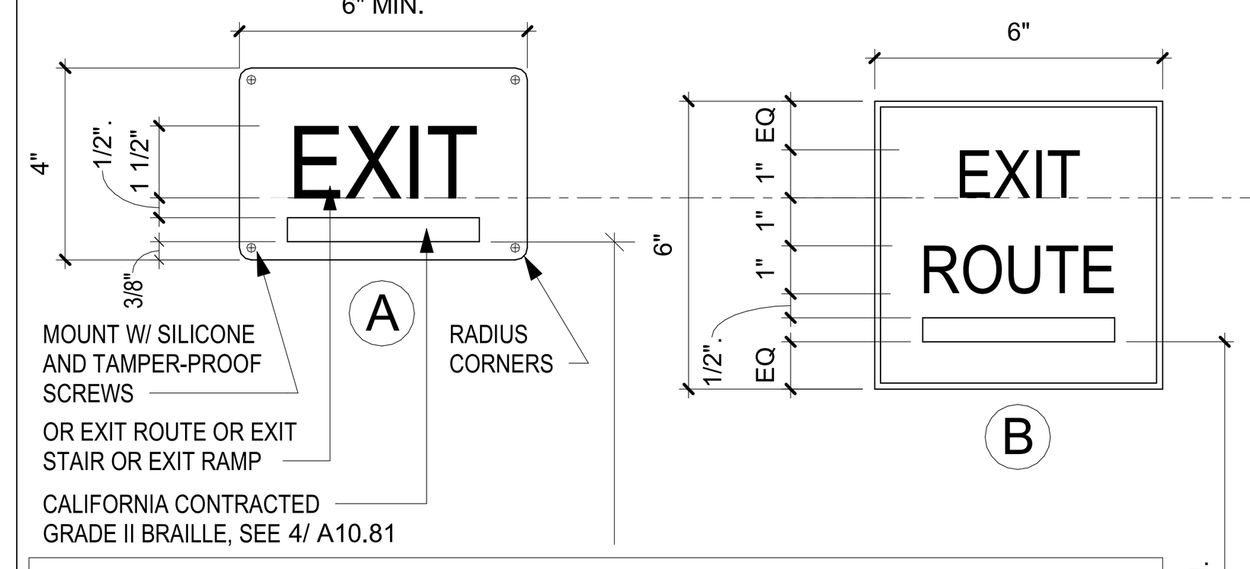
A10.71

NOTES:

1. LOCATE PER DETAIL 1/ A10.81
2. SIGN COLOR CIRCLE SHALL DISTINCTLY CONTRAST WITH DOOR COLOR
3. CIRCLE AND TRIANGLE SHALL DISTINCTLY CONTRASTING TO EACH OTHER IN COLOR.



ALL GENDER DOOR SIGN - TYPE A3 | **15** | N.T.S.

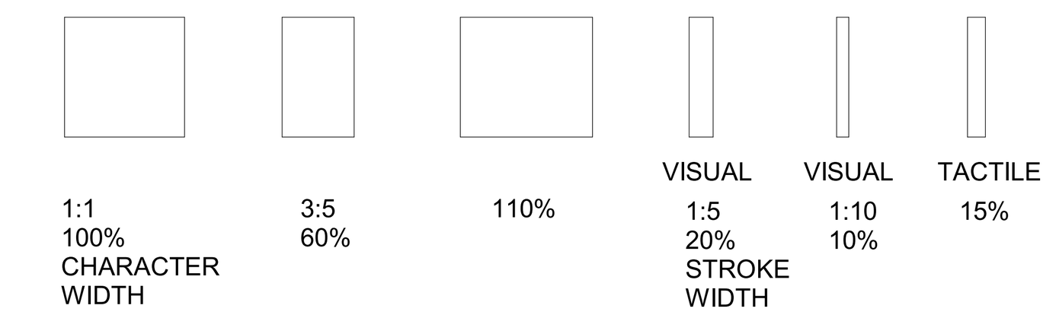


NOTE:
1. REFER TO DETAIL 4/ A10.81 FOR CHARACTER AND BRAILLE STANDARD
2. SEE DOOR SCHEDULE FOR TEXT DEFINITION
3. SIGN MATERIAL SHALL BE 1/8" THICK ACRYLIC PLASTIC WITH 1/32" RAISED BORDER, GRAPHIC AND LETTERS. PROVIDE MECHANICAL MOUNTING WITH VANDAL RESISTANT FASTENERS. COMPLY WITH ARTICLE 4.30 & A4.30 OF ADAAG. (WHEN MOUNTING ON GLAZING USE SILICONE ADHESIVE. PLACE SIGN BACK TO BACK WITH ROOM ID SIGN, DEE DETAISL 8/A10.71.)
4. SEE FLOOR PLANS FOR LOCATION.

TACTILE EXIT SIGNAGE - TYPE C | **10** | 3" = 1'-0"

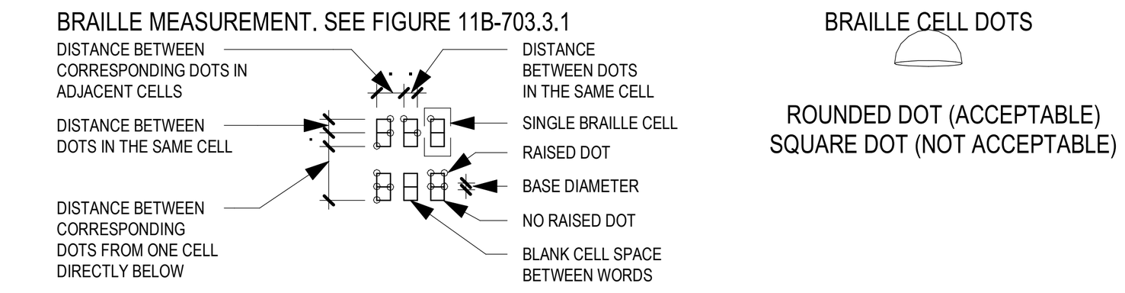
1. CHARACTER TYPE: CHARACTERS ON SIGNS SHALL BE RAISED 1/32" (0.794 mm) MINIMUM AND SHALL BE SANS SERIF CHARACTERS ACCOMPANIED BY GRADE 2 BRAILLE.
2. CHARACTER PROPORTIONS: CBC 11B-703.2.4
   ALL LETTERS MEASURED MUST BE UPPERCASE. AFTER CHOOSING A TYPE TO TEST, BEGIN BY PRINTING THE LETTERS I, X, AND 0 AT 1 INCH HIGH. USE 110% TEMPLATE TO DETERMINE IF THE "O" IS TOO WIDE. USE THE 3:5 (60%) RECTANGLE TO DETERMINE IF THE "O" IS TOO NARROW. USE THE 1:5 (20%) RECTANGLE TO DETERMINE IF THE STROKE OF THE "I" IS TOO BROAD FOR VISUAL LETTERS, FOR RAISED CHARACTER USE (15%) RECTANGLE. USE THE 1:10 (10%) RECTANGLE TO SEE IF THE "I" IS TOO NARROW FOR VISUAL LETTERS. IF THE TESTS ARE PASSES, THE TYP STYLE IS COMPLIANT WITH PROPORTION CODE.

   TEMPLATE FOR CHECKING CHARACTER AND STROKE WIDTH TO HEIGHT PROPORTIONS:



3. CHARACTER HEIGHT: CHARACTER HEIGHT MEASURED VERTICALLY FROM THE BASELINE OF THE CHARACTER SHALL BE 5/8" MIN. AND 2" MAX. BASED ON THE HEIGHT OF THE UPPERCASE LETTER "I". CBC 11B-703.2.5
4. CHARACTER SPACING: CHARACTER SPACING SHALL BE MEASURED BETWEEN THE TWO CLOSEST POINTS OF ADJACENT RAISED CHARACTERS WITHIN A MESSAGE, EXCLUDING WORD SPACES. WHERE CHARACTERS HAVE RECTANGULAR CROSS SECTIONS, SPACING BETWEEN INDIVIDUAL RAISED CHARACTERS SHALL BE 1/8" MINIMUM AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAX. WHERE CHARACTERS HAVE OTHER CROSS SECTIONS, SPACING BETWEEN INDIVIDUAL RAISED CHARACTERS SHALL BE 1/16" MIN. AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAX AT THE TOP OF THE CROSS SECTIONS. CHARACTERS SHALL BE SEPARATED FROM RAISED BORDERS AND DECORATIVE ELEMENTS 3/8" MIN. CBC 11B-703.2.7
5. SPACING BETWEEN THE BASELINES OF SEPARATE LINES OF RAISED CHARACTERS WITHIN A MESSAGE SHALL BE 135 PERCENT MIN. AND 170 PERCENT MAX. OF THE RAISED CHARACTER HEIGHT. CBC 11B703.2.8
6. TEXT SHALL BE IN HORIZONTAL FORMAT. CBC 11B-703.2.9
7. FINISH AND CONTRAST: PICTOGRAMS AND THEIR FIELD SHALL HAVE A NON-GLARE FINISH. PICTOGRAMS SHALL CONTRAST WITH THEIR FIELD WITH EITHER A LIGHT PICTOGRAM ON A DARK FIELD OR A DARK PICTOGRAM ON A LIGHT FIELD. CBC 11B-703.6.2
8. BRAILLE: BRAILLE SHALL BE CONTRACTED (GRADE 2). BRAILLE DOTS SHALL HAVE A DOMED OR ROUNDED SHAPE AND SHALL COMPLY WITH TABLE 11B-703.3.1. THE INDICATE OF AN UPPERCASE LETTER OR LETTERS SHALL ONLY BE USED BEFORE THE FIRST WORD OF SENTENCES, PROPER NOUNS AND NAMES, INDIVIDUAL LETTERS OF THE ALPHABET, INITIALS, AND ACRONYMS. BRAIL SHALL BE POSITIONED BELOW THE CORRESPONDING TEXT IN A HORIZONTAL FORMAT, FLUSH LEFT OR CENTERED. IF TEXT IS MULTI-LINED, BRAILLE SHALL BE PLACED BELOW THE ENTIRE TEXT. BRAILLE SHALL BE SEPARATED 3/8" INCH MIN. AND 1/2" INCH MAX. FROM ANY OTHER TACTILE CHARACTERS AND 3/8" MIN. FROM RAISED BORDERS AND DECORATIVE ELEMENTS AND CENTERED BELOW TEXT ON SIGN PER FIGURE 11B-703.3.2.

   BRAILLE MEASUREMENT. SEE FIGURE 11B-703.3.1

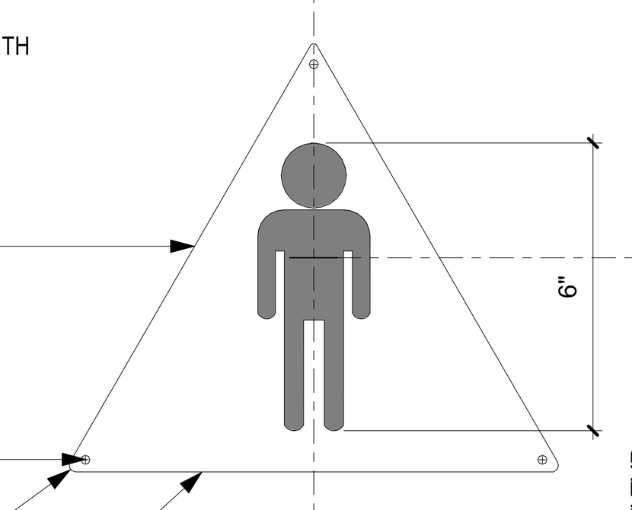


9. SIGNAGE MUST BE FIELD INSPECTED PER CBC 11B-703.1.1.2

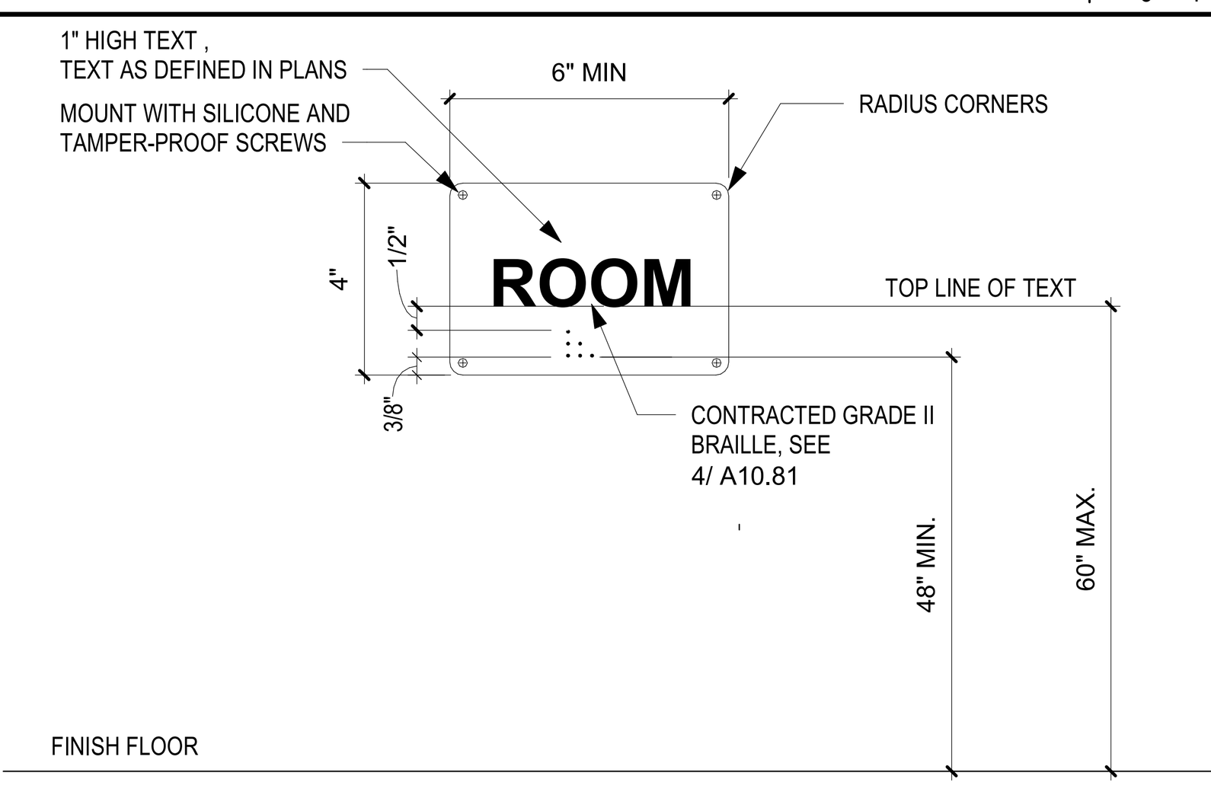
CHARACTER & BRAILLE STANDARDS | **4** | N.T.S.

NOTES:

1. LOCATE PER DETAIL 1/ A10.81
2. SIGN COLOR SHALL DISTINCTLY CONTRAST WITH DOOR COLOR



MENS DOOR SIGN - TYPE A2 | **14** | N.T.S.

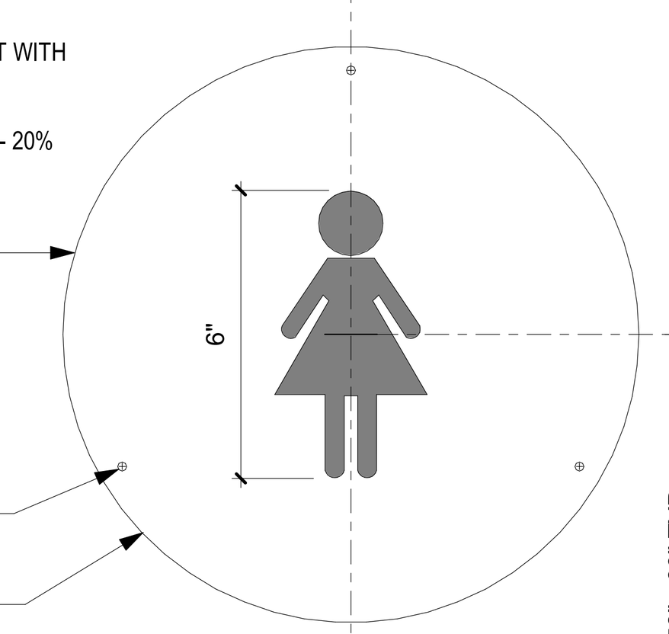


NOTES:
1. REFER TO DETAIL 4/ A10.81 FOR CHARACTER AND BRAILLE STANDARDS.
2. WHERE SIGNAGE IS INSTALLED ON GLASS, SEE DETAIL 8/ A10.81

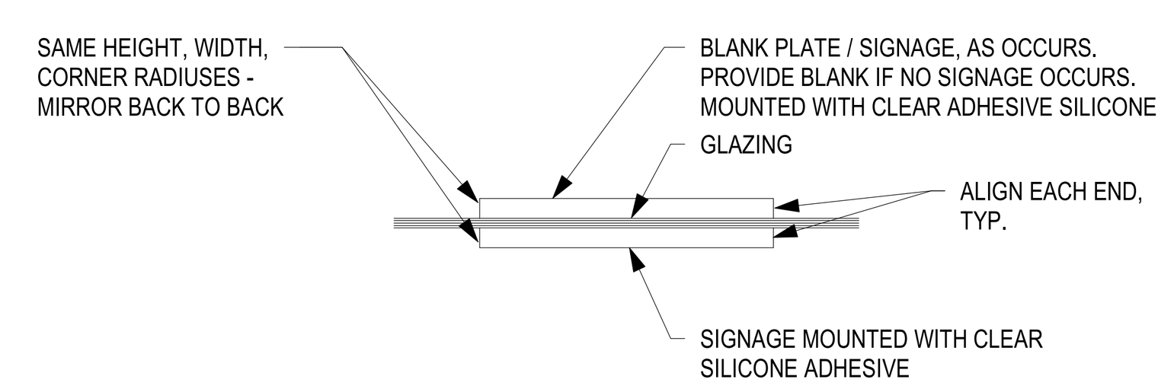
TACTILE RM IDENTIFICATION SIGN - TYPE B | **9** | N.T.S.

NOTES:

1. LOCATE PER DETAIL 1/ A10.81
2. SIGN COLOR SHALL DISTINCTLY CONTRAST WITH DOOR COLOR
3. TACTILE CHARACTER STROKE WIDTH 15%
4. VISUAL CHARACTERS STROKE WIDTH 10% - 20%

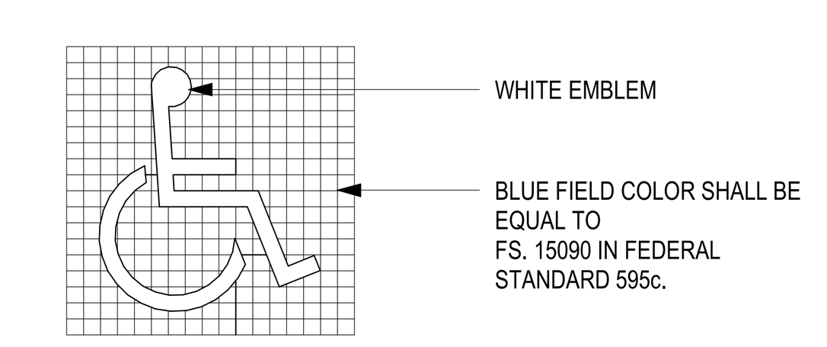


WOMENS DOOR SIGN - TYPE A1 | **13** | N.T.S.



NOTE: OMIT SCREWS AND MOUNTING HOLES IN SIGNS MOUNTED ON GLASS. LOCATION AND TEXT REQUIREMENTS TO STILL FOLLOW NOTES AND DIMENSIONS ABOVE.

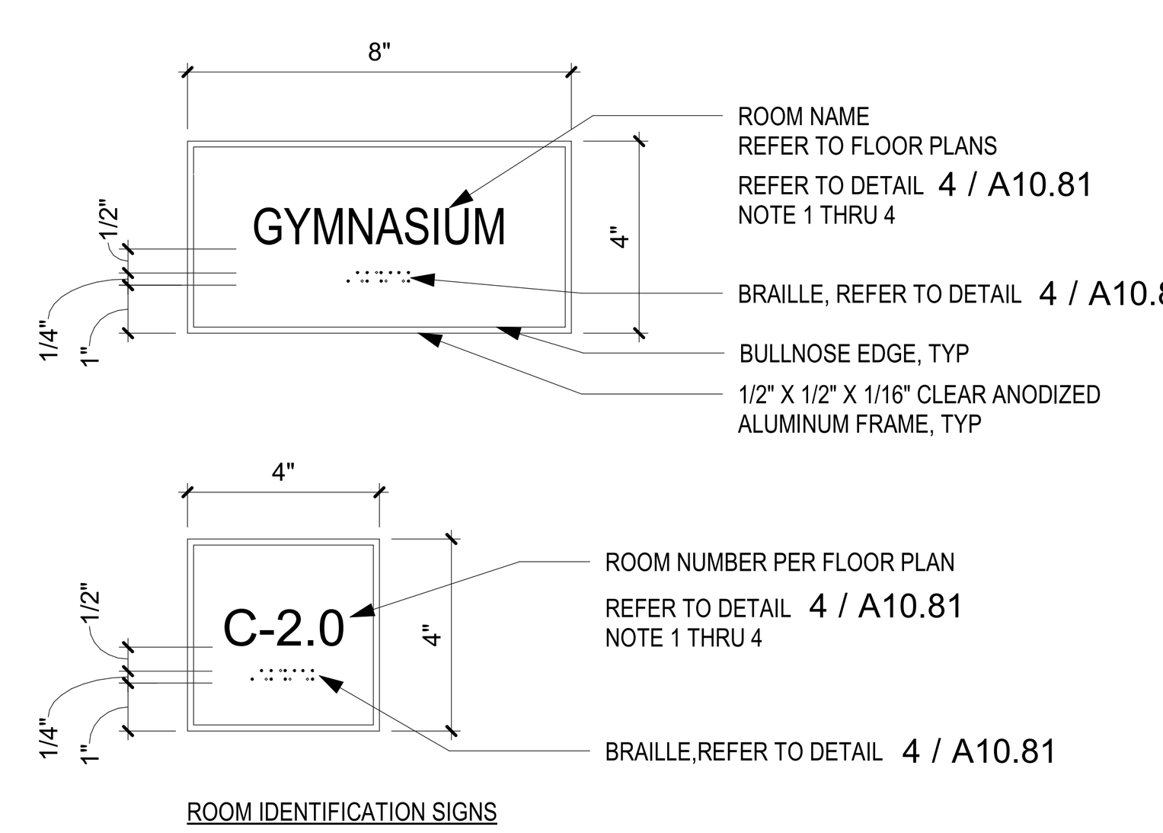
SIGN MOUNTING ON GLASS | **8** | N.T.S.



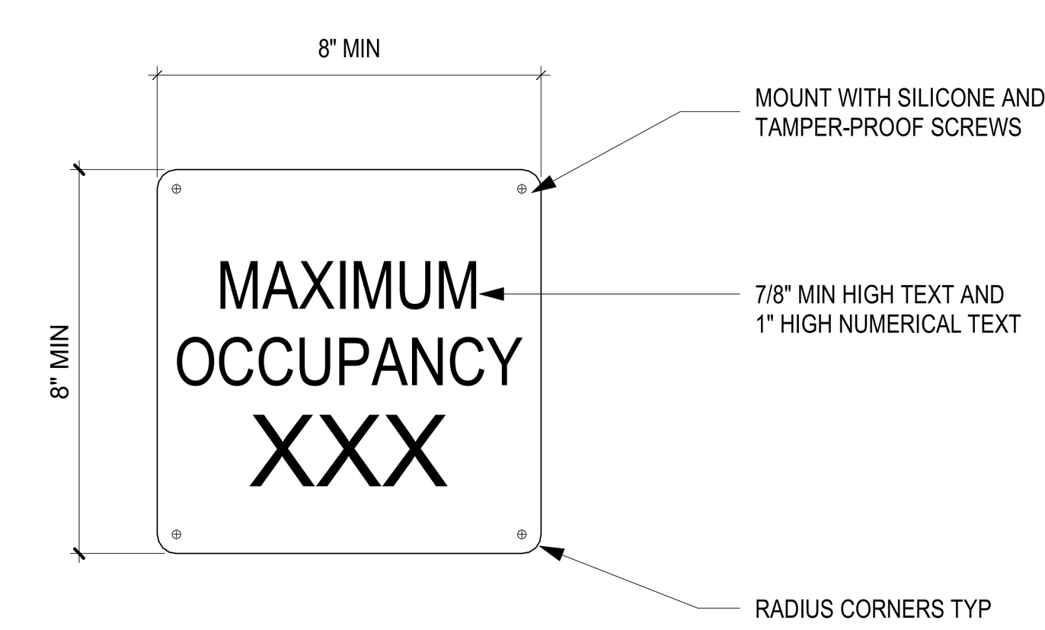
NOTES:

1. GRID LINES ARE SHOWN FOR PROPORTION ONLY AND ARE NOT TO APPEAR AS PART OF SYMBOL.

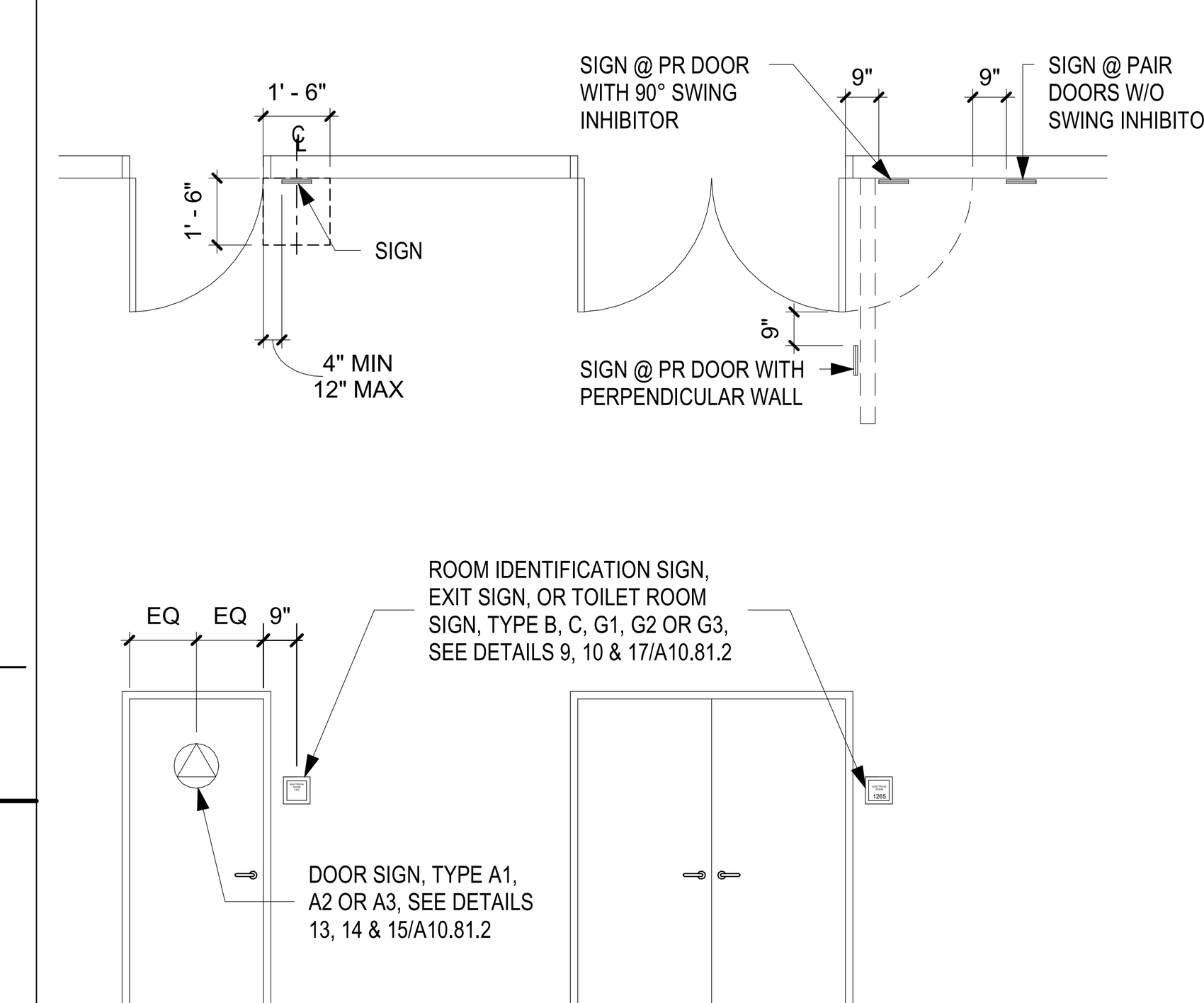
ACCESSIBILITY SYMBOL PROPORTIONS - TYPE D | **3** | N.T.S.



BUILDING / ROOM IDENTIFICATION SIGN | **12** | 3" = 1'-0"



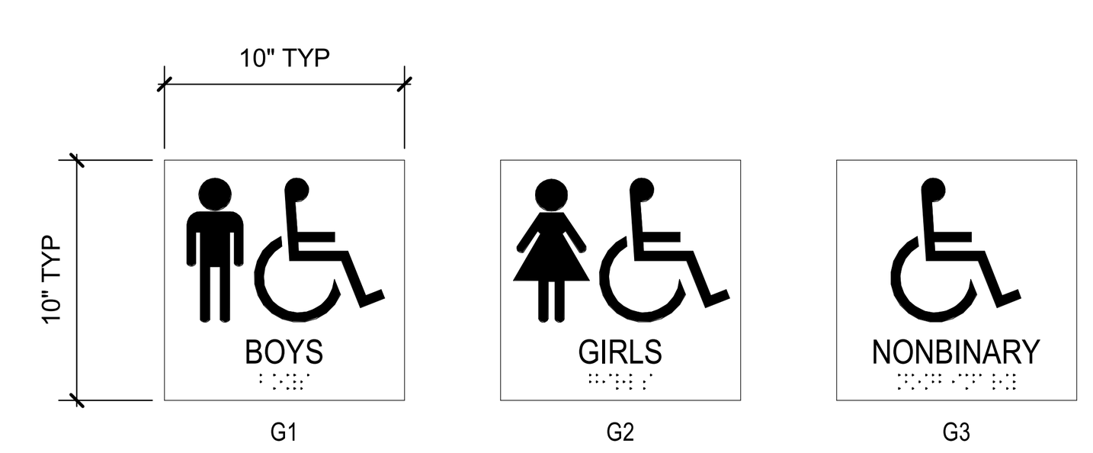
OCCUPANCY LOAD CAPACITY SIGN (NON-TACTILE)-TYPE E | **7** | N.T.S.



NOTES:

1. SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR. WHERE THERE IS NO WALL SPACE ON THE LATCH SIDE, INCLUDING DOUBLE LEAF DOORS, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL, PREFERABLY ON THE RIGHT. SIGNS WITH RAISED CHARACTERS AND BRAILLE SHALL BE MOUNTED 48" MIN. ABOVE F.F., MEASURED FROM THE BASELINE OF THE LOWEST LINE OF BRAILLE AND RAISED TEXT 60" MAX. ABOVE F.F., MEASURED FROM THE BASELINE OF THE HIGHEST LINE OF RAISED CHARACTERS (CBC 11B-703.4.1). MOUNTING LOCATION SHALL BE DETERMINED SO THAT A PERSON MAY APPROACH WITHIN 0" OF SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING OF A DOOR.
2. IF SIGN IS MOUNTED TO GLAZING, SEE DETAIL BELOW
3. EASE ALL EDGES AND CORNERS OF SIGNS.

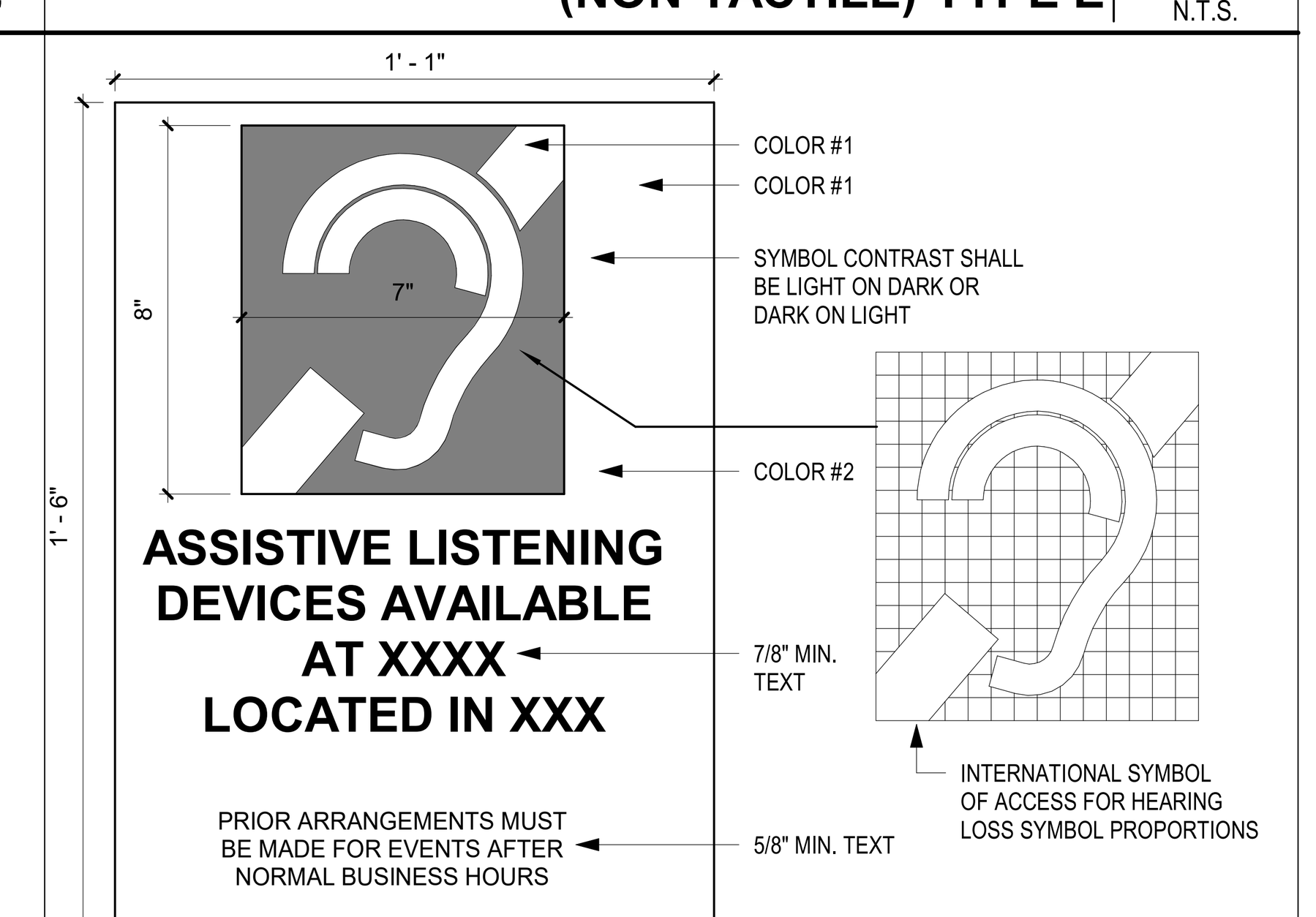
TYPICAL SIGNAGE LOCATIONS - SIGN MOUNTING ON GLASS | **1** | N.T.S.



NOTES:

1. SIGN MATERIAL SHALL BE 1/8" ACRYLIC PLASTIC WITH 1/32" RAISED GRAPHICS AND LETTERS.
2. REFER TO 1 / A10.81 FOR MOUNTING HEIGHT.
3. SIGN LETTER SHALL BE AT LEAST 5/8" IN HEIGHT. BRAILLE SHALL BE PLACED AT 3/8" - 1/2" BELOW TACTILE COPY AND SHALL CONSIST OF CALIFORNIA CONTRACTED GRADE 2 BRAILLE.

TOILET ROOM WALL SIGNAGE - TYPE F1, F2, F3 | **11** | 1 1/2" = 1'-0"



ASSISTIVE LISTENING DEVICE SIGN (NON-TACTILE) -TYPE D | **6** | 3" = 1'-0"

AGENCY APPROVAL:

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SHEET NAME:
SIGNAGE DETAILS

DSA SUBMITTAL

DATE: xxxx.xx.xx
CLIENT PROJ NO: 3186071000

SHEET:
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THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS SHEET'S ORIGINAL PAGE SIZE

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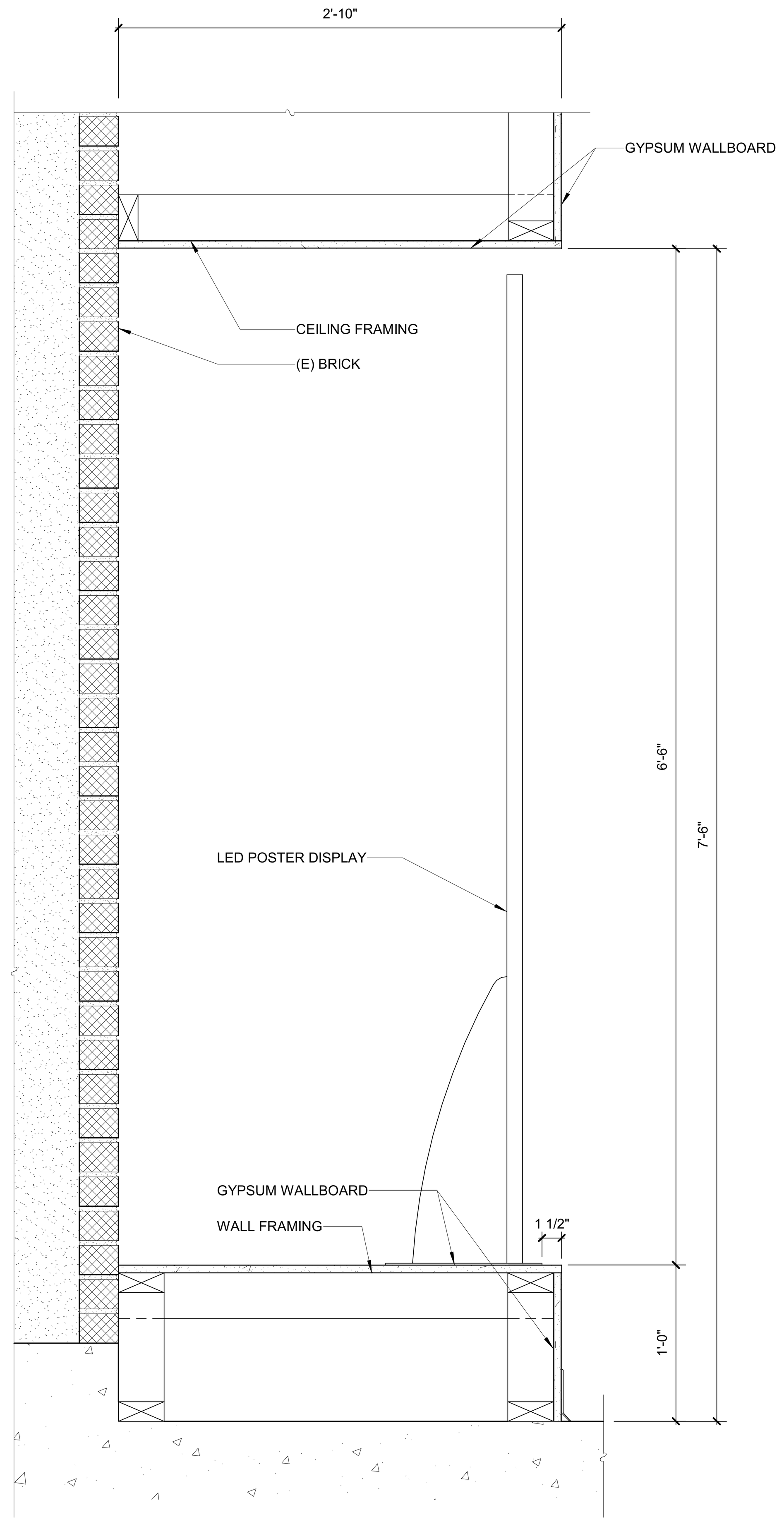
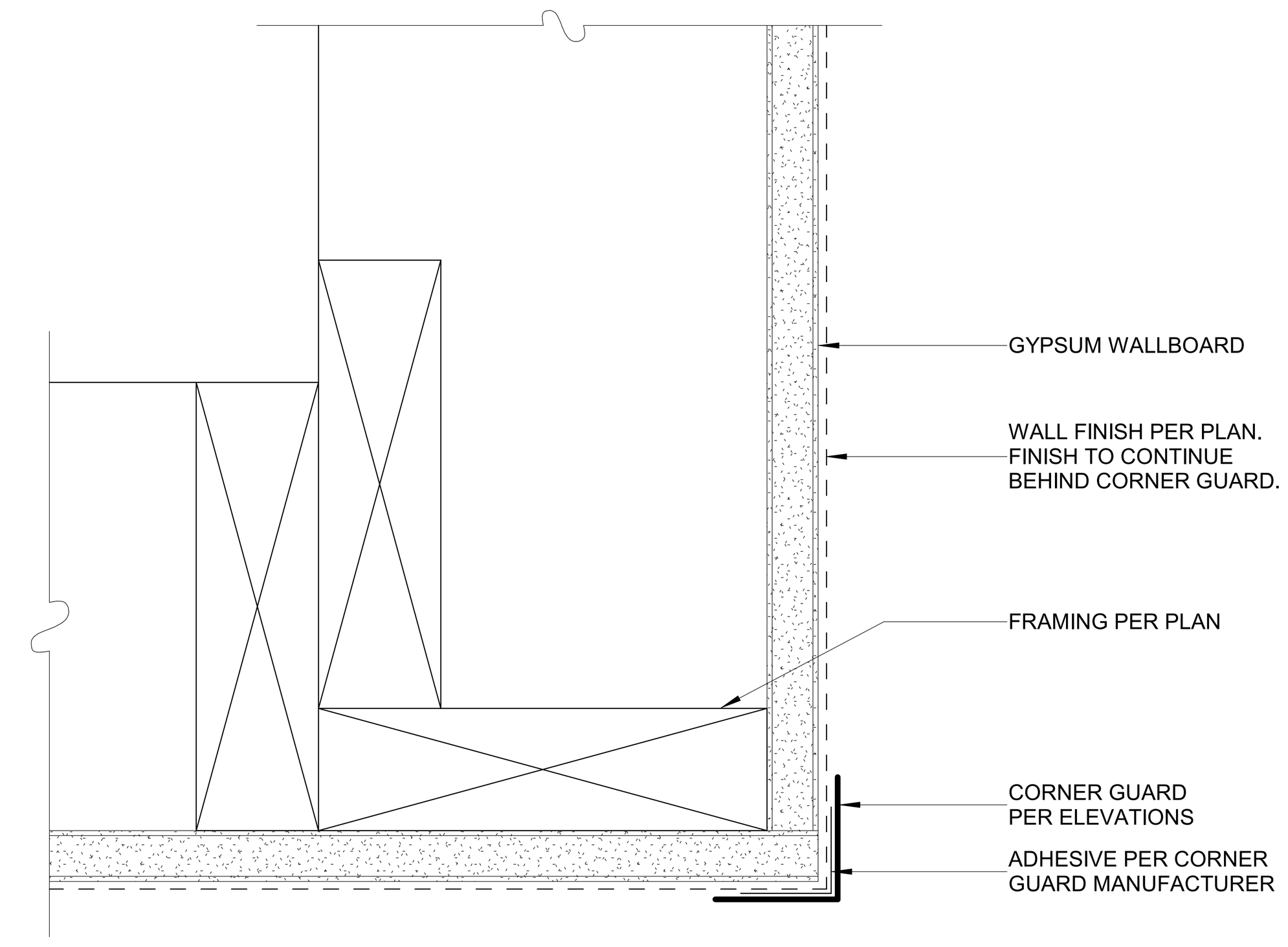
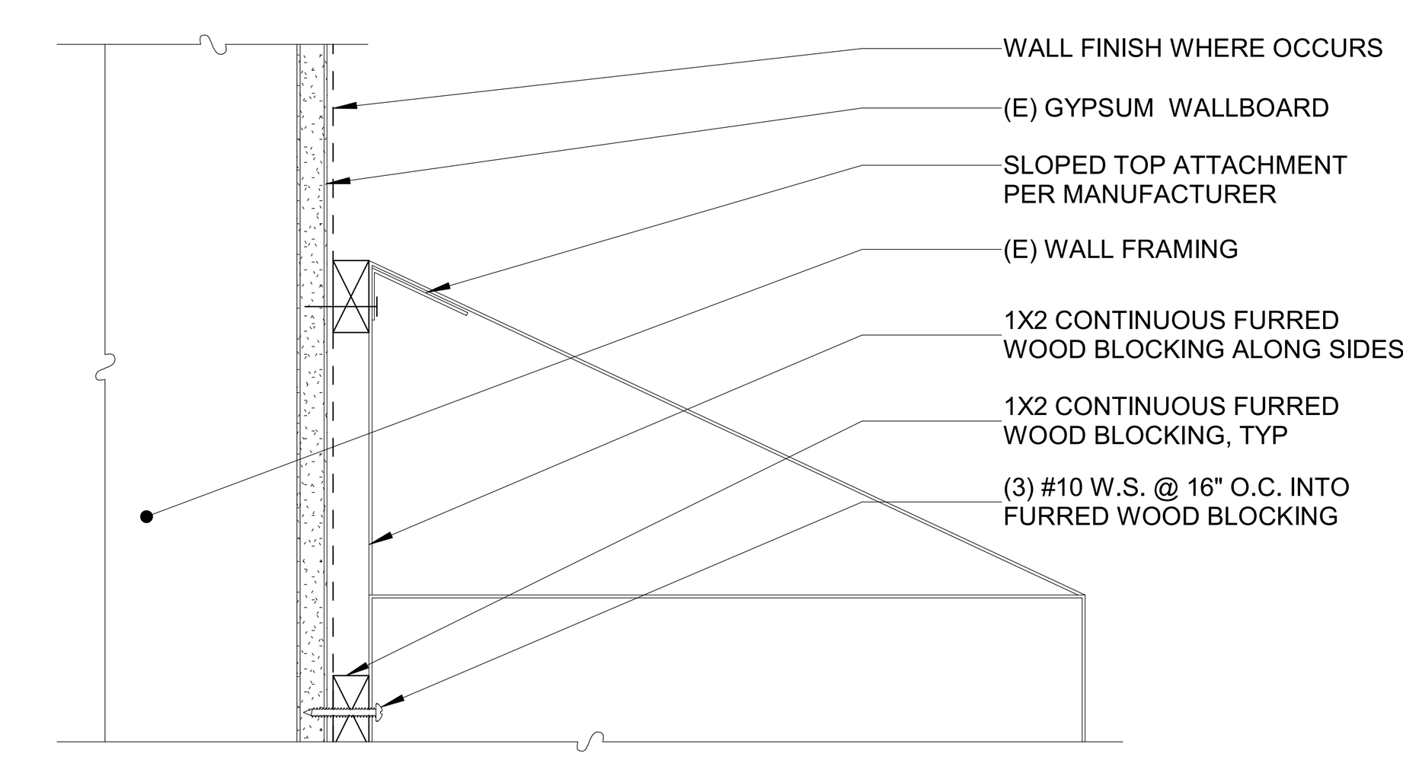


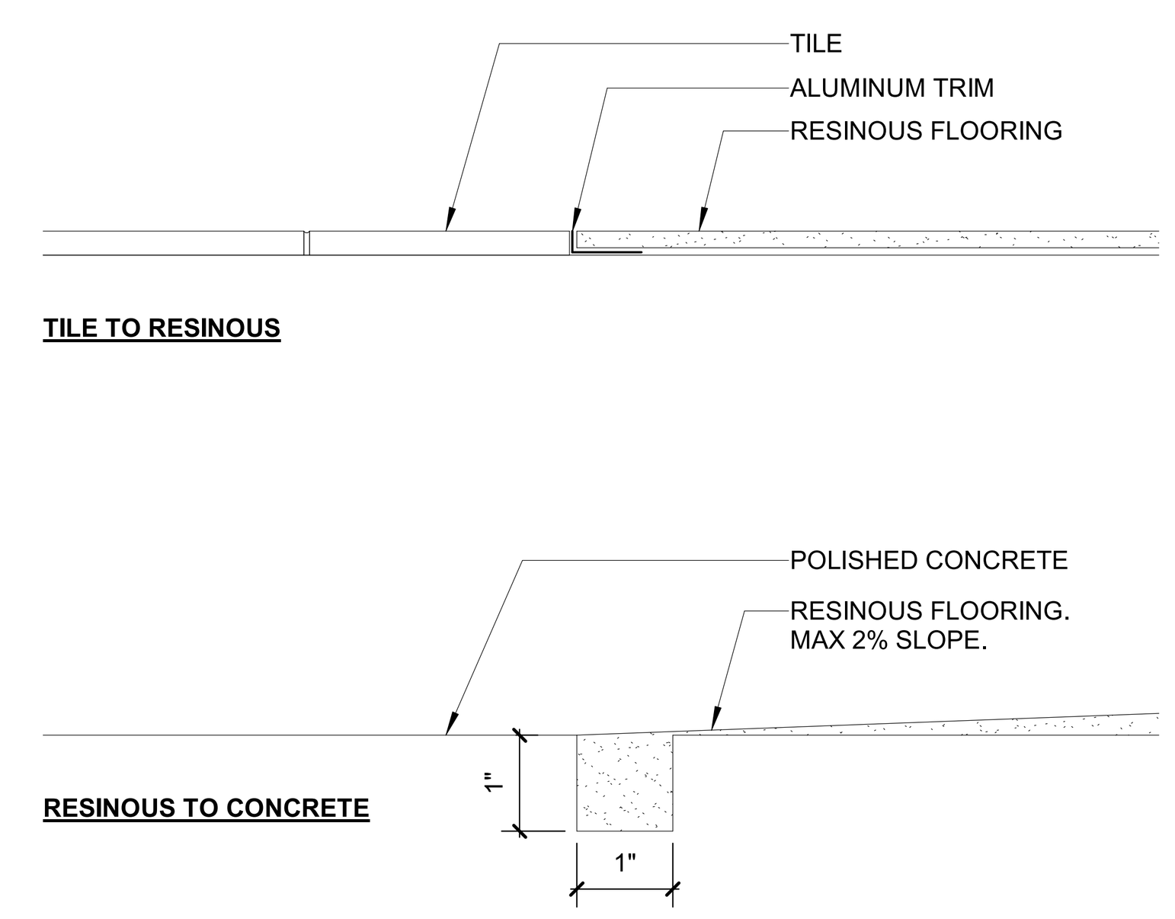
LED DISPLAY @ POP-OUT 10
1 1/2" = 1'-0"



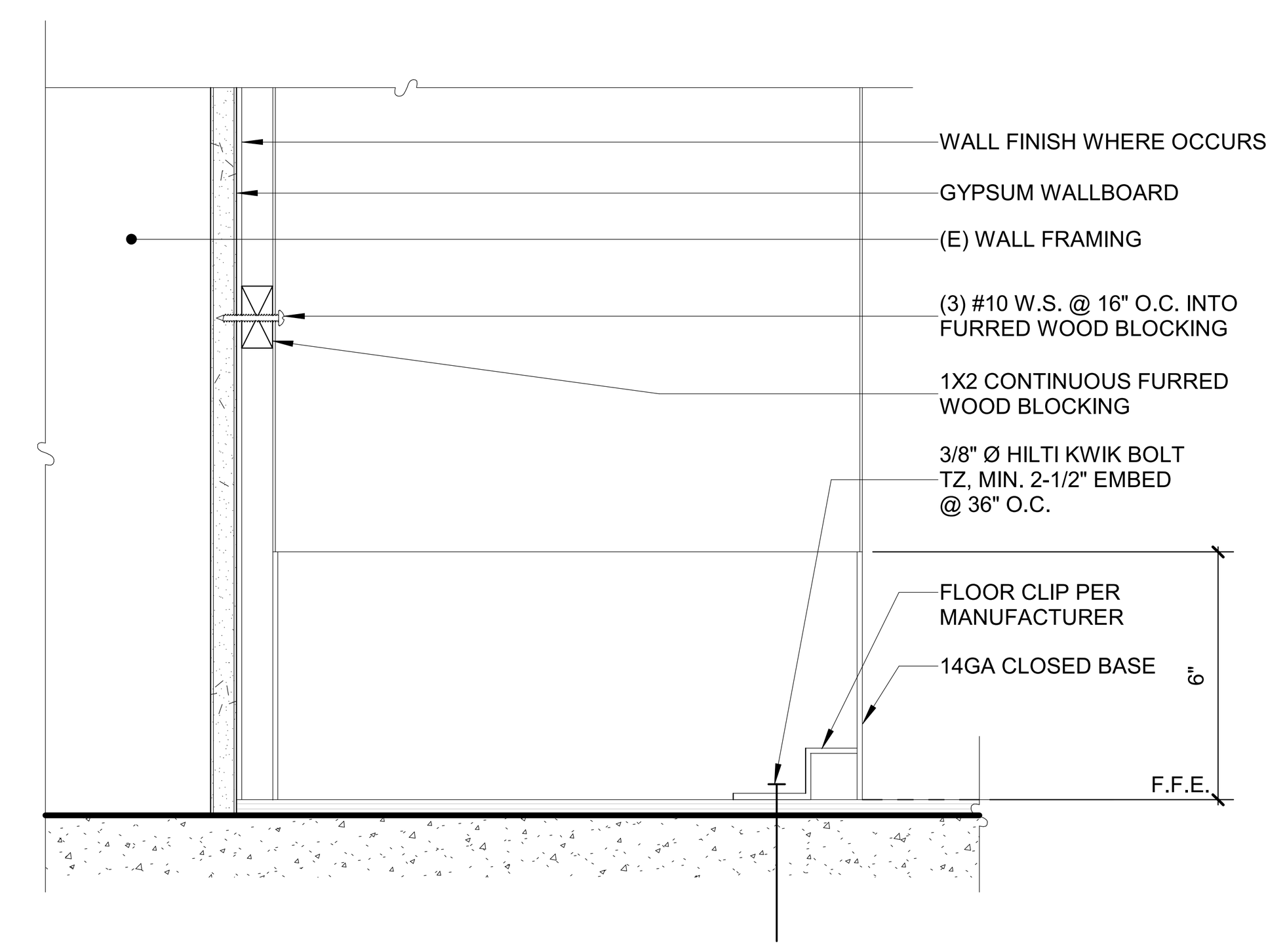
CORNER GUARD 8
6" = 1'-0"



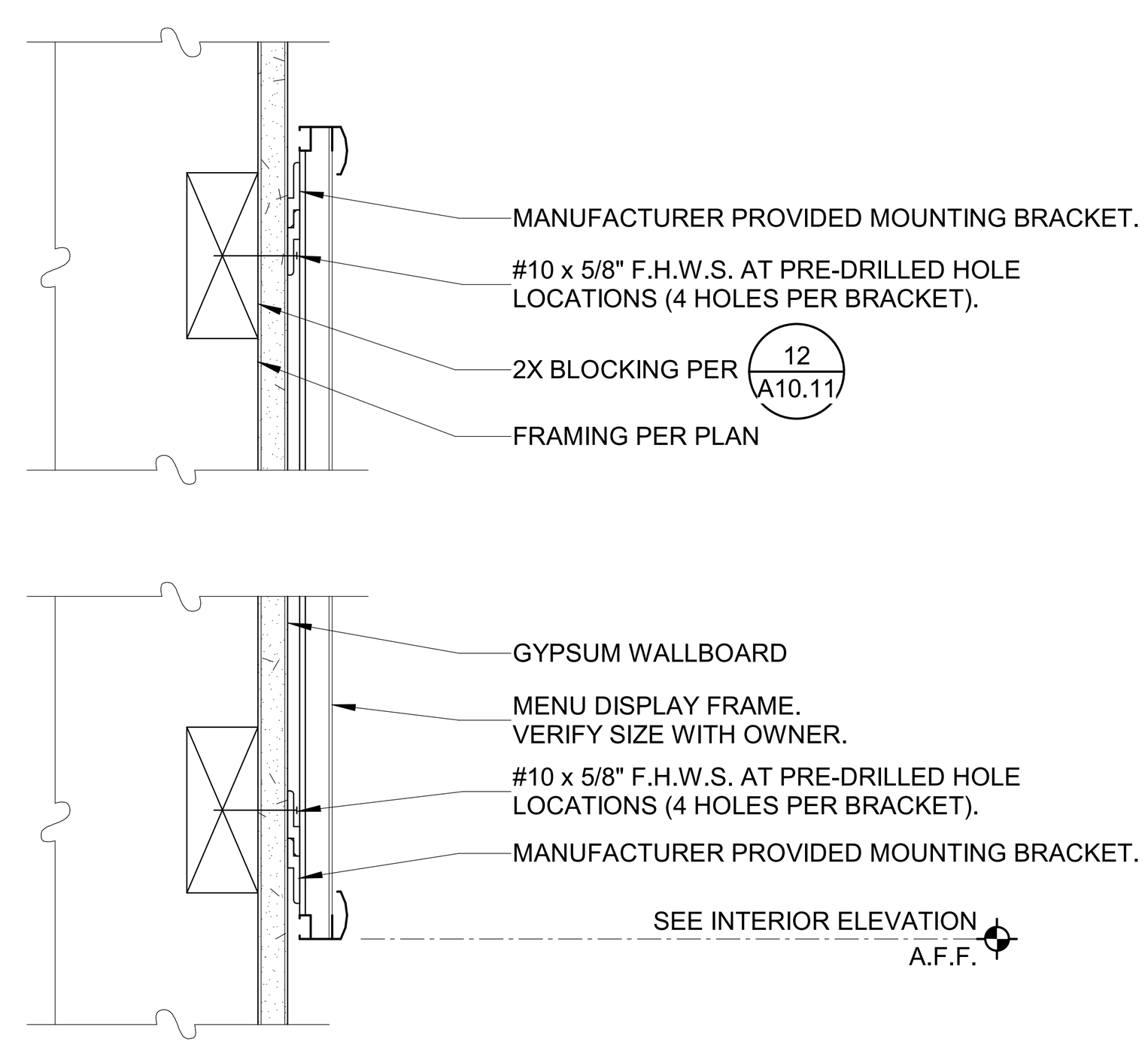
LOCKER - SLOPED TOP 4
3" = 1'-0"



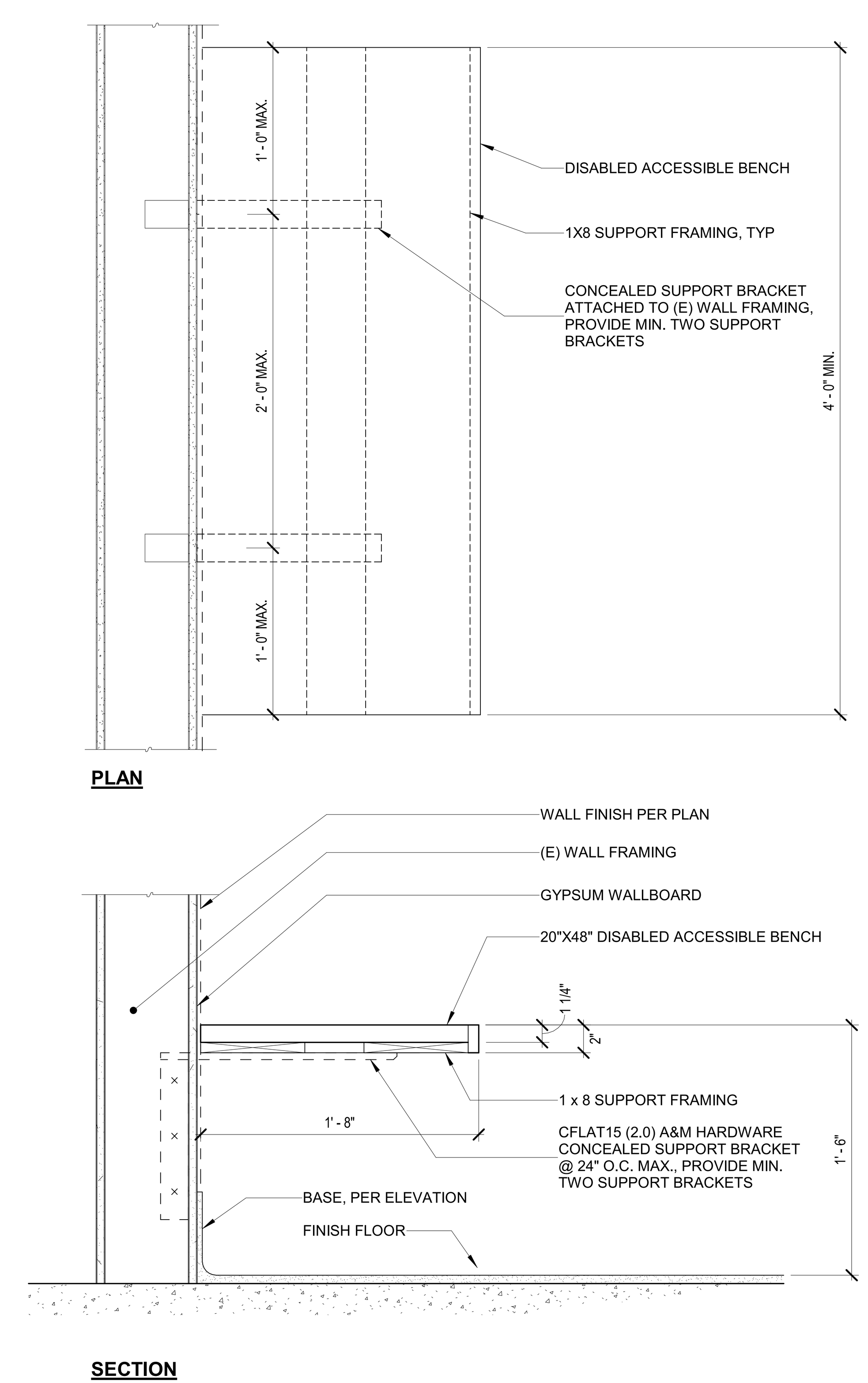
FLOORING TRANSITIONS 7
6" = 1'-0"



LOCKER - BASE 3
3" = 1'-0"



MENU DISPLAY FRAME 6
3" = 1'-0"



BENCH 1
1 1/2" = 1'-0"

AGENCY APPROVAL:

Sacramento City
UNIFIED SCHOOL DISTRICT

HMC Architects
3186-071-000
2101 CAPITOL AVENUE, SUITE 100,
SACRAMENTO, CA, 95816
916 368 7990 / www.hmcarchitects.com

LICENSED ARCHITECT
MICHAEL CHESTER RATH
C-25193
REN. 07/31/25
STATE OF CALIFORNIA

ISSUE

Δ	DESCRIPTION	DATE

KEYNOTES

NOTES

FACILITY:
LUTHER BURBANK HIGH SCHOOL
3500 FLORIN RD
SACRAMENTO, CA 95823

PROJECT:
LUTHER BURBANK HIGH SCHOOL CAFETERIA MODERNIZATION

SHEET NAME:
MISCELLANEOUS DETAILS

DSA SUBMITTAL

DATE: 12/21/21 CLIENT PROJ NO: 3186071000

SHEET:
A10.91

PLEASE RECYCLE

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS SHEET'S ORIGINAL PAGE SIZE

AGENCY APPROVAL:

ROUGH CARPENTRY-LAG SCREWS:

1. ALL SPECIFIED LAG SCREWS SHALL CONFORM TO ANSI/ASME STANDARD B18.2.1.
2. LEAD HOLES FOR LAG SCREWS SHALL BE BORED TO AVOID SPLITTING OF WOOD MEMBERS. THE LEAD HOLE FOR THE SHANK SHALL HAVE THE SAME DIAMETER AND LENGTH AS THE UNTHREADED SHANK. THE LEAD HOLE FOR THE THREADED PORTION SHALL SHALL NOT EXCEED 70% OF THE SHANK DIAMETER AND HAVE MIN LENGTH EQUAL TO THREADED PORTION.
3. LAG SCREWS SHALL BE INSTALLED BY TURNING OF THE LAG SCREW & NOT BY DRIVING OF A HAMMER.
4. SOAP OR OTHER LUBRICANT MAY BE USED ON THE LAG SCREW OR IN THE LEAD HOLE AS REQ'D TO PREVENT DAMAGE TO THE LAG SCREW.
5. LAG SCREWS INSTALLED IN TREATED LUMBER SHALL HAVE CORROSION PROTECTION APPROPRIATE FOR THE TYPE OF CHEMICALS USED IN THE TREATMENT PROCESS. AS A MINIMUM, LAG SCREWS INTO TREATED LUMBER OR IN EXTERIOR APPLICATIONS SHALL BE HOT-DIPPED GALVANIZED PER ASTM A153 CLASS C OR TYPE 316 STAINLESS STEEL.
6. LAG SCREWS SHALL BE INSTALLED WITH A STANDARD CUT WASHER OR PLATE WASHER W/CORROSION PROTECTION TO MATCH THE LAG SCREW.
7. ALL LAG SCREWS TO BE TIGHTENED DURING INSTALLATION & RE-TIGHTENED JUST PRIOR TO CLOSING IN.

WOOD FASTENERS-BOLTS:

1. ALL SPECIFIED BOLTS IN WOOD FRAMING SHALL CONFORM TO ANSI/ASME STANDARD B18.2.1. ALL BOLTS SHALL BE ASTM A307 GRADE A.
2. HOLES SHALL BE A MIN OF 1/32" TO A MAX OF 1/16" GREATER THAN THE BOLT DIAMETER. HOLES SHALL BE ACCURATELY ALIGNED AND NOT FORCIBLY DRIVEN.
3. BOLTS INSTALLED IN TREATED LUMBER SHALL HAVE CORROSION PROTECTION APPROPRIATE FOR THE TYPE OF CHEMICALS USED IN THE TREATMENT PROCESS. AS A MINIMUM, BOLTS INTO TREATED LUMBER OR IN EXTERIOR APPLICATIONS SHALL BE HOT-DIPPED GALVANIZED PER ASTM A153 CLASS C OR TYPE 316 STAINLESS STEEL.
4. BOLTS SHALL BE INSTALLED WITH A STANDARD CUT WASHER OR PLATE WASHER AT HEAD AND NUT W/CORROSION PROTECTION TO MATCH THE BOLT.
5. ALL BOLTS & NUTS TO BE TIGHTENED DURING INSTALLATION & RE-TIGHTENED JUST PRIOR TO CLOSING IN.

ROUGH CARPENTRY-HARDWARE:

1. ALL STEEL CONNECTORS, STRAPS, HANGERS, HARDWARE, ETC SHALL BE BY SIMPSON STRONG-TIE OR APPROVED EQUAL UNO. ATTACH W/FASTENERS PER MFR TO ACHIEVE THE MAXIMUM TABULATED VALUE.
2. HARDWARE COMPONENTS AND FASTENERS INSTALLED AGAINST OR INTO TREATED LUMBER SHALL HAVE CORROSION PROTECTION APPROPRIATE FOR THE TYPE OF CHEMICALS USED IN THE TREATMENT PROCESS. AS A MINIMUM, ALL HARDWARE AND FASTENERS INTO/AGAINST TREATED LUMBER OR IN EXTERIOR APPLICATIONS SHALL BE HOT-DIPPED GALVANIZED (G185 MIN FOR HARDWARE) OR STAINLESS STEEL.
3. INSTALL ALL SPECIFIED FASTENERS BEFORE LOADING THE CONNECTION.
4. NAILS FOR HARDWARE SHALL NOT BE OVERDRIVEN OR DEFORM THE PART. THE CONTRACTOR SHALL VERIFY WITH THE HARDWARE MFR THAT THE PART PUBLISHED CAPACITIES ARE NOT REDUCED AS A RESULT OF THE INSTALLED CONDITION.
5. FASTENER SUBSTITUTIONS FOR HARDWARE ARE NOT ALLOWED UNLESS APPROVED FOR USE BY THE MFR AND THE HARDWARE CAPACITY IS NOT REDUCED.
6. WASHERS AT WOOD CONNECTIONS SHALL BE SQUARE PLATE STEEL OR MALLEABLE IRON W/THE FOLLOWING MIN DIMENSIONS:

FASTENER DIAMETER	MIN WASHER DIMENSIONS	MIN THICKNESS
1/2"	2" x 2"	3/16"
5/8"	2 1/2" x 2 1/2"	1/4"
3/4"	2 3/4" x 2 3/4"	5/16"
7/8"	3" x 3"	5/16"
1"	3 1/2" x 3 1/2"	3/8"

ROUGH CARPENTRY-MATERIALS:

1. ALL SAWN LUMBER SHALL BE DOUG FIR UNO AND HAVE MOISTURE CONTENT NOT TO EXCEED 19% AT TIME OF INSTALLATION. EACH PIECE SHALL BEAR THE STAMP OF WCLIB OR WWPA SHOWING GRADE MARK.
2. ALL COMPOSITE WOOD PRODUCTS (IE LVL, LSL, GLULAM, ETC) SHALL BE PROTECTED FROM EXPOSURE AND EXCESSIVE MOISTURE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. MOISTURE CONTENT OF 16% PRIOR TO MEMBERS BEING WRAPPED OR ENCLOSED.
3. ALL STRUCTURAL SAWN LUMBER TO BE SPECIES & GRADE AS NOTED BELOW:

MEMBER	SPECIES & GRADE
2x_ & 3x_STUDS	#1 DF
2x_ JOISTS, PLATES	#1 DF
4x_ HEADERS	#1 DF
4x_ COLUMNS	#1 DF
6x_ & LARGER FRAMING	#1 DF

   A. MATERIAL EXPOSED TO WEATHER OR IN CONTACT W/CONCRETE SHALL BE PRESSURE TREATED
   B. OPTIONAL FOR EXPOSED 8X_ BEAMS & POSTS TO BE #1AC IN LIEU OF TREATED DF
   C. STUDS TALLER THAN 12'-0" SHALL BE #1DF
4. PRESERVATIVE TREATED & PRESSURE TREATED LUMBER
   A. SAWN LUMBER TO BE PROTECTED FROM EARTH, WEATHER, EARTH, & CONCRETE/CMU OR WOOD SHALL BE TREATED
   B. PRESERVATIVE TREATMENT & CLEARANCES TO SOIL OR CONCRETE SHALL BE PER CBC 2303.1.9 & 2304.12.1.2
   C. FIELD CUTS & HOLES IN TREATED LUMBER SHALL BE PROTECTED IN ACCORDANCE W/AWPA STANDARD M4
   D. CONTRACTOR TO COORDINATE WITH TREATED WOOD SUPPLIER TO DETERMINE THE APPROPRIATE LEVEL OF CORROSION PROTECTION FOR HARDWARE & FASTENERS IN CONTACT WITH WOOD TREATED WITH CORROSIVE CHEMICALS.
5. ALL WOOD PANEL STRUCTURAL SHEATHING SHALL BE STAMPED W/APA TRADEMARK AND CONFORM TO MOST CURRENT EDITION OF PS-1 OR PS-2. USE THICKNESS AND NAILING AS SHOWN ON DRAWINGS. SHEATHING SHALL HAVE EXPOSURE RATING AS APPROPRIATE FOR ON-SITE EXPOSURE CONDITIONS DURING CONSTRUCTION AND IN FINAL CONDITION. EQUIVALENT OSB SHALL BE USED IN LIEU OF PLYWOOD. PROVIDE PLYWOOD AT ALL EXPOSED EAVE CONDITIONS.

ROUGH CARPENTRY-NAILS:

1. ALL SPECIFIED NAILS SHALL CONFORM TO ASTM F1667 OR ICC ESR-1539. ALTERNATE FASTENERS MUST HAVE AN ICC EVALUATION REPORT AND MAY NOT BE USED UNLESS APPROVED IN WRITING BY RW CONSULTING ENGINEERS. ALL NAILS SHALL BE FULL ROUND HEAD WITH MINIMUM PROPERTIES AS FOLLOWS:

SPECIFIED FASTENER	DIAMETER	LENGTH	PENETRATION	APPLICATION
8d	.131"Ø	2 1/2"	1 3/8"	SHTG/FRMG
10d	.148"Ø	3"	1 1/2"	SHTG/FRMG
16d BOX	.135"Ø	3 1/2"	1 5/8"	FRMG
16d SINKER	.148"Ø	3 1/4"	1 1/2"	FRMG
16d COMMON	.162"Ø	3 1/2"	1 5/8"	FRMG

ALL NAILS SHALL BE COMMON WIRE NAILS EXCEPT WHERE SPECIFICALLY NOTED

2. NAILS SHALL BE LOCATED AND SPACED TO PREVENT SPLITTING OF WOOD. PREDRILL ALL FASTENERS 75% MAX OF FASTENER DIAMETER WHERE WOOD TENDS TO SPLIT.
3. TOENAILS SHALL BE DRIVEN AT AN ANGLE OF APPROX 30° WITH THE MEMBER AND STARTED APPROX 1/3 THE LENGTH OF THE NAIL FROM THE MEMBER END.
4. NAILS USED IN HARDWARE SHALL BE AS SPECIFIED BY HARDWARE MFR.
5. MINIMUM NAILING SHALL BE PER CBC TABLE 2304.10.1 UNO:

Description	Nailing
Roof	
1. Blkg btwn clg joists, rafters or trusses to top plate or other framing blw	3-8d toe nail, ea end
Blkg btwn rafters or truss not at the wall top plate, to rafter or truss	2-8d toe nail or 2-16d end nail, ea end
Flat blkg to truss & web filler	16d face nail @ 6"cc
2. Clg joist to top plate	3-8d toe nail ea joist
3. Clg joist not attached to parallel rafter, laps ov/partitions (no thrust)	3-16d face nail
4. Clg joist attached to parallel rafter, laps ov/partitions (w/thrust)	CBC Table 2308.7.3.1
5. Collar tie to rafter	3-10d face nail
6. Rafter or truss to top plate (see CBC section 2308.7.3.1, Table 2308.7.3.1)	3-10d toe nail
7. Rafters to ridge, valley or hip rafters; or rafter to 2" ridge	3-10d toenail or 2-16d end nail
Wall	
8. Stud to stud (not @ braced wall panels)	16d @ 24"cc face nail
9. Stud to stud and abutting studs at intersecting wall corners (braced wall panels)	16d @ 6"cc face nail
10. Built up header (2" to 2" header)	16d @ 16"cc face nail
11. Cont header to stud	4-8d toe nail
12. Top plate to top plate	16d @ 16"cc face nail
13. Top plate to top plate, at end joints	8-16d ea side of end joint face nail (24" min lap splice ea end)
14. Bot plate to joist, rim, band joist or blkg (not @ braced wall panels)	16d @ 16"cc
15. Bot plate to joist, rim, band joist or blkg (braced wall panels)	2-16d @ 16"cc
16. Stud to top or bot plate	4-8d toe nail
17. Top or bot plate to stud	2-16d end nail
18. Top plates, laps at corners & intersections	2-16d face nail
19. 1" brace to ea stud & plate	2-8d face nail
20. 1x6 sheathing to ea bearing	2-8d face nail
21. 1x8 & wider sheathing to ea bearing	3-8d face nail
Floor	
22. Joist to sill, top plate or girder	3-8d toe nail
23. Rim joist, band joist, or blkg to top plate, sill, or other framing blw	8d @ 6"cc toe nail
24. 1x6 sub floor or less to ea joist	2-8d face nail
25. 2" sub floor to joist or girder	2-16d face nail
26. 2" planks ea bearing (plank & beam, floor & roof)	2-16d face nail
27. Built up girders & beams, 2" lumber layers	10d @ 24"cc face nail at top & bot, stagger on opposite sides
28. Ledger strip supporting joists or rafters	3-16d ea joist or rafter face nail
29. Joist to band joist or rim joist	3-16d end nail
30. Bridging or blkg to joist, rafter or truss	2-8d toe nail ea end

6. NAILS INSTALLED IN TREATED LUMBER SHALL HAVE CORROSION PROTECTION APPROPRIATE FOR THE TYPE OF CHEMICALS USED IN THE TREATMENT PROCESS. AS A MINIMUM, NAILS INTO TREATED LUMBER OR IN EXTERIOR APPLICATIONS SHALL BE HOT-DIPPED GALVANIZED PER ASTM A153 CLASS D OR TYPE 316 STAINLESS STEEL.
7. SHEATHING NAILS SHALL BE DRIVEN SO THAT THEIR HEAD OR CROWN ARE FLUSH WITH THE SURFACE OF THE SHEATHING.

ROUGH CARPENTRY-WOOD SCREWS:

1. ALL SPECIFIED WOOD SCREWS SHALL CONFORM TO ANSI/ASME STANDARD B18.6.1. ALTERNATE WOOD SCREWS MUST HAVE AN ICC EVALUATION REPORT AND MAY NOT BE USED UNLESS APPROVED IN WRITING BY RW CONSULTING ENGINEERS. END DISTANCE, EDGE DISTANCE, & SPCG OF ALTERNATE WOOD SCREWS MUST CONFORM TO THE MFR ICC EVALUATION REPORT.
2. WOOD SCREWS SHALL BE LOCATED AND SPACED TO PREVENT SPLITTING OF WOOD, PRE-DRILL LEAD HOLES AS REQ'D. LEAD HOLES SHALL NOT EXCEED THE SMALLEST OF 7/8 OF THE SHANK DIAMETER AND 7/8 OF THE ROOT DIAMETER AT THREADED PORTIONS.
3. WOOD SCREWS USED IN HARDWARE SHALL BE AS SPECIFIED BY HARDWARE MFR.
4. WOOD SCREWS SHALL BE INSTALLED BY TURNING OF THE SCREW & NOT BY DRIVING OF A HAMMER.
5. SOAP OR OTHER LUBRICANT MAY BE USED ON THE WOOD SCREW OR IN THE LEAD HOLE AS REQ'D TO PREVENT DAMAGE TO THE WOOD SCREW.
6. WOOD SCREWS INSTALLED IN TREATED LUMBER SHALL HAVE CORROSION PROTECTION APPROPRIATE FOR THE TYPE OF CHEMICALS USED IN THE TREATMENT PROCESS. AS A MINIMUM, WOOD SCREWS INTO TREATED LUMBER OR IN EXTERIOR APPLICATIONS SHALL BE HOT-DIPPED GALVANIZED PER ASTM A153 CLASS D OR TYPE 316 STAINLESS STEEL.

CONCRETE NOTES:

1. ALL CONCRETE CONSTRUCTION SHALL CONFORM TO THE 2022 CBC AND ACI 318-14.
2. ALL CONCRETE SHALL BE NORMAL WEIGHT PER ACI 301 AND HAVE PROPORTIONS OF CEMENT, COARSE AND FINE AGGREGATE, WATER AND ADMIXTURES TO PRODUCE THE PROPERTIES SPECIFIED FOR EACH CONCRETE MIX TYPE PER ACI 301 ON THE BASIS OF PREVIOUS FIELD EXPERIENCE AND SUPPORTED BY PREVIOUS TEST RECORDS.
3. STRUCTURAL CONCRETE SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES. REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

   3.1 FOR USE AT EXTERIOR CONCRETE EQUIPMENT SLABS
   28-DAY STRENGTH, F'c = 3,500 PSI
   MAX AGGREGATE SIZE = 3/4"
   MAX WATER TO CEMENT RATIO = 0.50
   SLUMP = 4" ± 1"

4. CONSTITUENTS OF STRUCTURAL CONCRETE SHALL MEET THE FOLLOWING REQUIREMENTS:

   4.1 PORTLAND CEMENT PER ASTM C-150 TYPE I OR II
   4.2 COARSE AND FINE AGGREGATES PER ASTM C-33
   4.3 REINFORCING PER ASTM A615 GRADE 60, UNO
   4.4 FLY ASH PER ASTM C-618 CLASS N OR F
   4.5 ADMIXTURES PER PROJECT SPECIFICATIONS

5. ALL DEBRIS SHALL BE REMOVED FROM FORMS AND FOOTING EXCAVATIONS PRIOR TO POURING CONCRETE. NO WOOD STAKES OR FORM SPREADERS SHALL BE PERMITTED IN CONCRETE.
6. ALL REINFORCEMENT, ANCHOR BOLTS, AND OTHER EMBEDDED ITEMS SHALL BE SECURED IN POSITION SHOWN ON DRAWINGS PRIOR TO PLACING CONCRETE.
7. FREE-FALL OF CONCRETE SHALL BE LIMITED TO 4'-0" MAX. CONCRETE SHALL NOT BE DROPPED THROUGH REINFORCING STEEL SO AS TO CAUSE SEPARATION OF AGGREGATES.
8. CONCRETE SHALL BE CONSOLIDATED BY MECHANICAL VIBRATION PER ACI 309 BY MEANS SUITABLE FOR ON SITE CONDITIONS. USE HAND RODDING OR TAMPING AS REQUIRED.
9. CONSTRUCTION JOINTS SHALL HAVE ALL LOOSE MATERIAL REMOVED AND SHALL BE INTENTIONALLY ROUGHENED TO 1/4" AMPLITUDE PRIOR TO POURING CONCRETE. CONTRACTOR SHALL SUBMIT CONSTRUCTION JOINT LOCATIONS TO ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.
10. ALL FORMWORK TO REMAIN IN PLACE FOR DURATION AS REQUIRED BY LATEST EDITION OF ACI 318.
11. REFER TO ACI RECOMMENDATIONS FOR PLACING AND CURING CONCRETE IN COLD AND HOT WEATHER CONDITIONS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING CONCRETE MIX DESIGN WITH BATCH PLANT TO PROVIDE CONCRETE MIX APPROPRIATE FOR SITE CONDITIONS
12. CONTRACTOR IS RESPONSIBLE FOR DETERMINING AND IMPLEMENTING APPROPRIATE CURING PROCEDURES FOR ACTUAL SITE/WEATHER CONDITIONS AND SHALL INCLUDE PROVISIONS FOR INCLEMENT WEATHER. REFER TO ACI 308R.
13. ALL SLABS SHALL BE FLAT AND LEVEL W/A TOLERANCE OF 3/16" IN 10' FOR FLATNESS AND MINIMUM LOCAL VALUE F = 32 PER ASTM 1155. THE PROJECT OWNER MAY REJECT ANY CONSTRUCTION THAT DOES NOT MEET THE FLATNESS CRITERIA NOTED WITH REPLACEMENT AT CONTRACTOR'S EXPENSE.
14. CONDUITS AND PIPES EMBEDDED IN THE SLAB (OTHER THAN THOSE PASSING VERTICALLY THROUGH) SHALL NOT BE PERMITTED. CONTRACTOR TO SUBMIT FOOTING PENETRATIONS TO STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
15. THE STRUCTURAL ENGINEER SHALL BE NOTIFIED BY THE CONTRACTOR A MINIMUM OF 48 HOURS BEFORE PLACING CONCRETE.

STEEL REINFORCING NOTES:

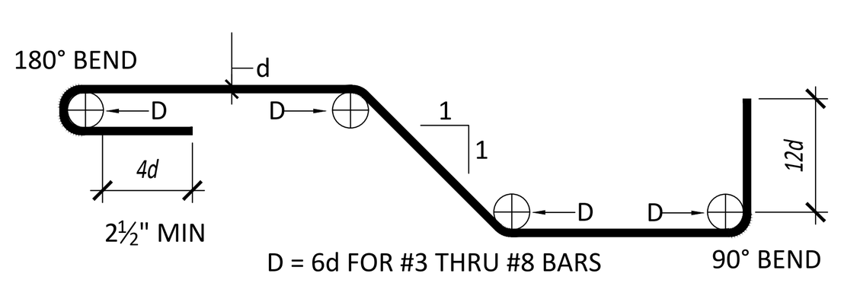
1. ALL CONCRETE REINFORCING SHALL CONFORM TO THE 2022 CBC AND BE DETAILED, FABRICATED, AND PLASED PER ACI 318-14, AND PER THE LATEST EDITION OF ACI 315.
2. REINFORCEMENT SHALL BE DEFORMED BILLET STEEL PER ASTM A-615, GRADE 60. ALL REINFORCEMENT TO BE WELDED SHALL BE ASTM A-706, GRADE 60 (SEE NOTE 10 BELOW).
3. ALL BENDING OF REINFORCEMENT PER ACI. FIELD BENDING OF REINFORCEMENT SHALL NOT BE PERMITTED.
4. REINFORCEMENT IN SLABS AND FOOTINGS SHALL BE CONTINUOUS AROUND CORNERS OR CORNER BARS PROVIDED.
5. LAP SPLICES OF CONCRETE REINFORCEMENT

   5.1 #3 BARS = 30"
   5.2 #4 BARS = 40"
   5.3 #5 BARS = 48"
   5.4 #6 BARS = 60"

6. ALL ADJACENT REINFORCING LAPS ARE TO BE STAGGERED A MINIMUM OF 5'-0".
7. REINFORCING SHALL BE PLACED WITH THE FOLLOWING MINIMUM CLEAR COVERAGE, UNO:

   7.1 POURED AGAINST EXCAVATIONS/GROUND = 3"
   7.2 POURED AGAINST FORMS, EXPOSED TO SOIL = 2"
   7.3 CONCRETE EXPOSED TO WEATHER = 1 1/2"
   7.4 SLABS ON GRADE - CENTER REINFORCING WITHIN SLAB DEPTH

8. REINFORCING SHALL BE TIED IN PLACE. TACK WELDING OF REINFORCING IS NOT PERMITTED.
9. WHERE REINFORCING IS NOT SPECIFIED, REFER TO ACI 318 FOR MINIMUM REINFORCEMENT.
10. WELDING OF REINFORCING IS NOT PERMITTED UNLESS SHOWN ON THESE DRAWINGS OR WITH PRIOR WRITTEN APPROVAL FROM THE SEOR.



REINFORCING BARS & STANDARD HOOKS

STANDARD REBAR BENDS

DESIGN CRITERIA:

1. PROJECT ADDRESS: 3500 FLORIN ROAD, SACRAMENTO, CA 95823
2. BUILDING CODE: 2022 CALIFORNIA BUILDING CODE
3. GRAVITY LOADS: (ESTIMATES OF AS-BUILT CONDITIONS)
   BUILDING ROOFS
   ROOF LIVE LOAD = 20 PSF (REDUCIBLE)
4. LATERAL LOADS: RISK CATEGORY III
   WIND LOADS (ASCE 7-16)
   BASIC WIND SPEED 100 MPH (77 MPH ASD)
   EXPOSURE C
   BUILDINGS ARE CONSIDERED "ENCLOSED"

   PRESSURE COEFFICIENTS
   INTERNAL PRESSURE COEFFICIENT, GC_{pi} = ± 0.18
   TOPOGRAPHIC FACTOR, K_{zt} = 1.00
   WIND DIRECTIONALITY FACTOR, K_d = 0.85
   GROUND ELEVATION FACTOR, K_e = 1.00

   VELOCITY PRESSURES
   q (0'-15') = 11.0 PSF (ASD)
   q (15'-20') = 11.6 PSF (ASD)
   q (20'-25') = 12.3 PSF (ASD)

   SEISMIC LOADS (ASCE 7-16)
   SITE CLASS D (DEFAULT)
   SEISMIC DESIGN CATEGORY D
   IMPORTANCE FACTOR 1.25
   S_S = 0.574 S_1 = 0.253
   F_a = 1.341 F_v = 2.106
   S_{MS} = 0.769 S_{M1} = 0.533
   S_{DS} = 0.513 S_{D1} = 0.355

   MECHANICAL EQUIPMENT (ASCE 7-16)
   IMPORTANCE FACTOR, I_p 1.00
   RESPONSE MOD FACTOR, R_p 6.0
   AMPLIFICATION FACTOR, a_p 2.5
5. SOIL CRITERIA:
   ALLOWABLE SOIL BEARING PRESSURE IS 1,500 PSF PER 2022 CBC TABLE 1806A.2.

INSPECTION NOTES:

1. ALL TESTS AND INSPECTIONS ARE TO BE PROVIDED BY A QUALIFIED TESTING LAB OF RECORD, HIRED BY THE DISTRICT (T-24 PART 1, 4-335).
2. ALL TESTS AND INSPECTIONS SHALL CONFORM TO CHAPTER 17A OF THE 2022 CBC AND THE PROJECT SPECIFIC DSA-103.
3. ALL SPECIAL INSPECTORS SHALL HAVE A MINIMUM OF THREE YEARS OF EXPERIENCE WITH MATERIAL BEING INSPECTED.

POST INSTALLED ANCHOR NOTES:

1. ALL POST INSTALLED ANCHORS ARE TO BE INSTALLED PER MANUFACTURER FOR EACH ANCHOR AND PER THE ICC REPORTS LISTED BELOW.
2. ALL POST-INSTALLED ANCHORS ARE TO BE CAREFULLY INSTALLED SO AS TO NOT DISTURB OR DAMAGE THE STEEL REINFORCING IN ANY WAY. ANCHORS MAY NOT BE INSTALLED UNTIL CONCRETE OR GROUT HAS REACHED A MINIMUM AGE OF 28 DAYS.
3. ALL HOLES FOR DRILLED-IN ANCHORS SHALL BE COMPLETELY DRY AND WELL CLEANED WITH A BOTTLE BRUSH AND COMPRESSED AIR PRIOR TO INSTALLING THE ANCHORS.
4. ALL DRILLED-IN ANCHORS SHALL BE TESTED PER CHAPTER 17A OF THE 2022 CBC. ALL TESTING SHALL BE DONE BY A CERTIFIED TESTING LABORATORY AND SHALL BE PERFORMED IN THE PRESENCE OF A SPECIAL INSPECTOR.
5. POST-INSTALLED ANCHORS ARE TO BE AS FOLLOWS:

   5.1 EXPANSION ANCHORS IN CONCRETE
   HILTI KB TZ2 PER ICC ESR 4266

   5.2 EPOXY ANCHORS IN CONCRETE
   HILTI HIT-HY 200 V3 PER ICC ESR 4868

6. POST-INSTALLED ANCHORS ARE TO BE INSTALLED ONLY WHERE SPECIFICALLY DETAILED IN THE PROJECT DRAWINGS, WITH EMBEDMENTS AND PROOF TESTING AS SPECIFICALLY IDENTIFIED IN EACH APPLICABLE DETAIL. FOR ADDITIONAL INFORMATION, UNO, FOR EXPANSION ANCHORS, SEE TABLE BELOW.
7. POST-INSTALLED ANCHORS MAY NOT BE USED AT LOCATIONS OTHER THAN THOSE SPECIFICALLY DETAILED IN THE PROJECT DRAWINGS WITHOUT PRIOR WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD.

CONCRETE: HILTI KWIK BOLT TZ2 EXPANSION ANCHORS
SEE ICC ESR-4266 TABLE 1

ANCHOR DIAMETER	3/8"Ø	1/2"Ø	5/8"Ø
BIT DIAMETER	3/8"Ø	1/2"Ø	5/8"Ø
NOMINAL EMBEDMENT	2 1/2"	2 1/2"	4 1/2"
HOLE DEPTH	2 3/4"	2 3/4"	4 3/4"
TORQUE (STAINLESS STEEL)	30 FT-LB	40 FT-LB	60 FT-LB

STRUCTURAL STEEL NOTES:

1. THE FABRICATION AND ERECTION OF ALL STEEL CONSTRUCTION SHALL CONFORM TO THE 2022 CBC AND THE AISC STEEL CONSTRUCTION MANUAL 16th EDITION.
2. STRUCTURAL STEEL SHAPES SHALL CONFORM TO THE FOLLOWING

   2.1 PLATE ASTM A36, Fy = 36 KSI
   2.2 PIPE ASTM A53, GRADE B TYPE E OR S, Fy = 35 KSI

3. WELDING SHALL BE BY THE ELECTRIC ARC PROCESS (SHIELDED METAL ARC WELDING, FLUX CORE ARC WELDING, GAS METAL ARC WELDING) PER AWS STANDARDS AND BY CERTIFIED WELDERS. REFER TO "QUALIFICATION PROCEDURE" AWS D1.1.
4. ALL WELDED JOINTS AND ELECTRODES ARE TO BE "PREQUALIFIED." ALL WELDING ELECTRODES ARE TO BE E70XX UNO. FCAW FILLER METAL WIRE SHALL BE 5/64" MAX DIAMETER AND SMAW FILLER METAL WIRE SHALL BE 3/32" MAX DIAMETER.
5. ALL STRUCTURAL STEEL SHALL BE ERECTED PLUM AND TRUE TO LINE. TEMPORARY BRACING SHALL BE INSTALLED AS REQUIRED TO MAINTAIN STABILITY.
6. ALL STEEL BOLTS ARE TO HAVE STANDARD GAGE AND PITCH PER AISC. ALL STEEL-TO-STEEL BOLTED CONNECTIONS SHALL BE WITH A325-N BOLTS, UNO.
7. STRUCTURAL STEEL IS TO BE SHOP PRIMED WITH ONE COAT.

STRUCTURAL SHEET INDEX:

ABBREVIATIONS:

@	AT	LS	LAG SCREW
AB	ANCHOR BOLT	LSL	LAMINATED STRAND LUMBER
approx	APPROXIMATE	LVL	LAMINATED VENEER LUMBER
Arch	ARCHITECT/URAL	MAX	MAXIMUM
BC	BOTTOM CHORD	MIN	MINIMUM
BLK	BLOCK OR BLOCKING	(N)	NEW
BO	BOTTOM OF	#	NUMBER
CBC	CALIFORNIA BUILDING CODE	NTS	NOT TO SCALE
oc	ON CENTER	OD	OUTSIDE DIAMETER
CIP	CAST IN PLACE	OH	OPPOSITE HAND
CJ	CONSTRUCTION JOINT	OV	OVER
CL	CENTER LINE	PL	PLATE
CMU	CONCRETE MASONRY UNIT	PT	PRESSURE TREATED
CONC	CONCRETE	REIN	REINFORCEMENT
CONT	CONTINOUS	SIM	SIMILAR
DF	DOUGLAS FIR	SP	STRUCTURAL PANEL
Ø	DIAMETER	SW	SHEAR WALL
DL	DEAD LOAD	T&B	TOP AND BOTTOM
DT	DRAG TRUSS	T&G	TONGUE AND GROOVE
(E)	EXISTING	thru	THROUGH
EN	EDGE NAIL	TN	TOE NAIL
EOR	ENGINEER OF RECORD	TOS	TOP OF STEEL
FDN	FOUNDATION	TYP	TYPICAL
FF	FINISH FLOOR	UNO	UNLESS NOTED OTHERWISE
FO	FACE OF	W/O	WITHOUT
ft	FOOT/FEET	VIF	VERIFY IN FIELD
FTG	FOOTING	W/O	WITHOUT
FRMG	FRAMING	WWF	WELDED WIRE FABRIC
GLB	GLUE LAMINATED BEAM		
HD	HOLD DOWN		
HDG	HOT-DIPPED GALVANIZED		
HDR	HEADER		

GENERAL NOTES:

1. ALL NEW WORK SHALL CONFORM TO TITLE 24 2019 EDITIONS WITH AMENDMENTS AND ALL OTHER APPLICABLE CODES AND REGULATIONS.
2. THIS SET OF STRUCTURAL DRAWINGS IS APPLICABLE ONLY TO THE LISTED PROJECT AND SITE LOCATION.
3. NOTES ON THIS SHEET ARE TYPICAL AND SHALL APPLY UNLESS OTHERWISE NOTED OR SHOWN. TYPICAL DETAILS SHALL APPLY FOR ALL LIKE CONDITIONS UNLESS OTHERWISE NOTED OR DETAILED.
4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS, ELEVATIONS, EXISTING CONDITIONS, AND OTHER RELATED ITEMS. THE CONTRACTOR SHALL REVIEW THE CONTRACT DOCUMENTS PRIOR TO CONSTRUCTION AND SHALL NOTIFY THE ENGINEER OF RECORD IF ANY CONFLICTS ARE SHOWN OR NOTED.
5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFORM TO RELEVANT SECTIONS OF THE CALIFORNIA "CONSTRUCTION SAFETY ORDERS" AND ALL OSHA REQUIREMENTS. THE ENGINEER OF RECORD ACCEPTS NO RESPONSIBILITY FOR THE CONTRACTOR'S FAILURE TO COMPLY W/ THESE REQUIREMENTS.
6. STRUCTURAL DRAWINGS REPRESENT THE FINISHED STRUCTURE, AND DO NOT INDICATE THE MEANS OR METHODS OF CONSTRUCTION. DESIGN AND CONSTRUCTION OF ALL TEMPORARY BRACING, SHORING, FORMING, ETC REQUIRED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
7. A COPY OF TITLE 24 CCR PARTS 1 -5 SHALL BE KEPT ON SITE AT ALL TIMES (T-24 PART 1, 4-317(c).
8. ALL CHANGES TO THE ACCESSIBILITY, FIRE AND LIFE SAFETY, AND STRUCTURAL PORTIONS OF THE APPROVED DRAWINGS SHALL BE MADE BY A CONSTRUCTION CHANGE DOCUMENT (CCD). ALL SUCH CHANGES BY CCD ARE TO BE SIGNED BY THE SEOR, THE OWNER, AND APPROVED BY DSA. CHANGES BY CCD ARE NOT VALID UNTIL APPROVED BY DSA (T-24, PART 1, 4-338).
9. A PROJECT INSPECTOR (INSPECTOR OF RECORD, IOR) EMPLOYED BY THE OWNER/DISTRICT AND CERTIFIED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK
10. THE STRUCTURAL ENGINEER SHALL PERFORM DUTIES PER T-24 PART 1, 4-333(a) AND 4-341. THE CONTRACTOR SHALL PERFORM DUTIES PER 4-343. THE IOR SHALL PERFORM DUTIES PER T-24 PART 1, 4-342.

DRAWING STANDARDS:

SHEET NUMBERING
STRUCTURAL SHEETS
DRAWING TYPE
0 TYPICAL
2 PLANS
3 ELEVATIONS & SECTIONS
4 DETAILS
SHEET NUMBER WITHIN DRAWING TYPE

S2.01

SYMBOLS

1 / SX.XX — STANDARD DETAIL & LOCATION
A — GRID LINE @ FACE OF WALL
A — GRID LINE @ CENTER OF WALL

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916.716.6910

REGISTERED PROFESSIONAL ENGINEER · GREGORY I. RICHARDS · S-4555 · Exp. 12/31/2024 · STRUCTURAL · STATE OF CALIFORNIA

FACILITY:
LUTHER BURBANK HIGH SCHOOL
3500 FLORIN ROAD
SACRAMENTO, CA 95823

PROJECT:
BUILDING MODERNIZATION

SHEET NAME:
GENERAL NOTES

DSA SUBMITTAL

DATE: 09/18/2024 CLIENT PROJ NO: 3186071000

SHEET:
S0.01

PLEASE RECYCLE

AGENCY
APPROVAL:

FOUNDATION PLAN NOTES:

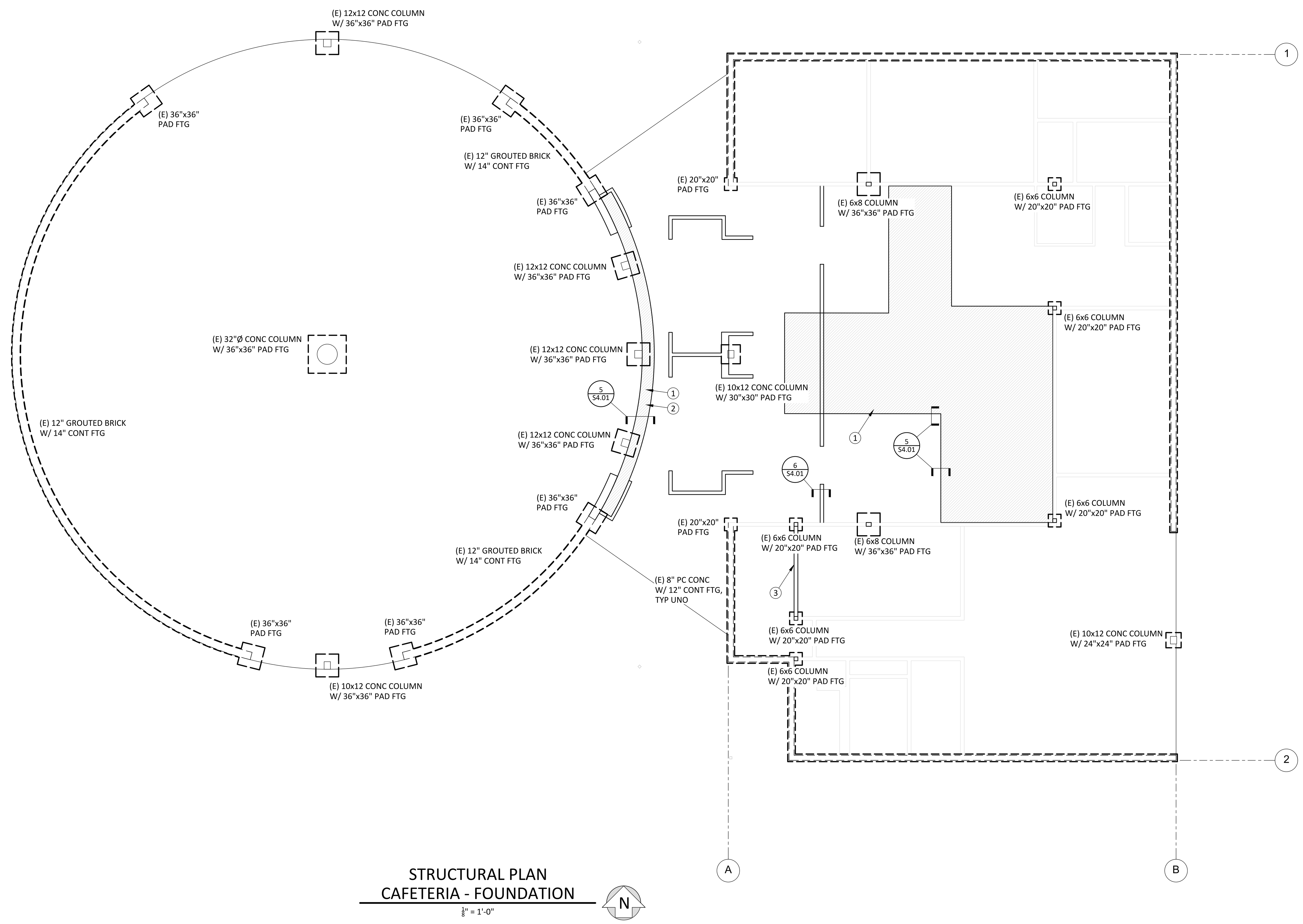
1. CONTRACTOR SHALL COORDINATE ALL WORK CONTAINED HEREIN WITH ALL PROJECT WORK BY OTHERS INCLUDING CIVIL, ARCHITECTURAL, MECHANICAL, ELECTRICAL & PLUMPING.
2. STRUCTURAL SCOPE IS LIMITED TO MISCELLANEOUS FRAMING MODIFICATIONS TO ACCOMMODATE HVAC UPGRADES TO THE BUILDING. ALL WORK PERFORMED IS TO NOT IMPACT EXISTING LATERAL FORCE RESISTING SYSTEM.

FOUNDATION PLAN LEGEND:

(E) STRUCTURAL WALL & FOOTING
(N) WALL - SEE ARCH DWGS
(E) NON-STRUCTURAL WALL ON SLAB

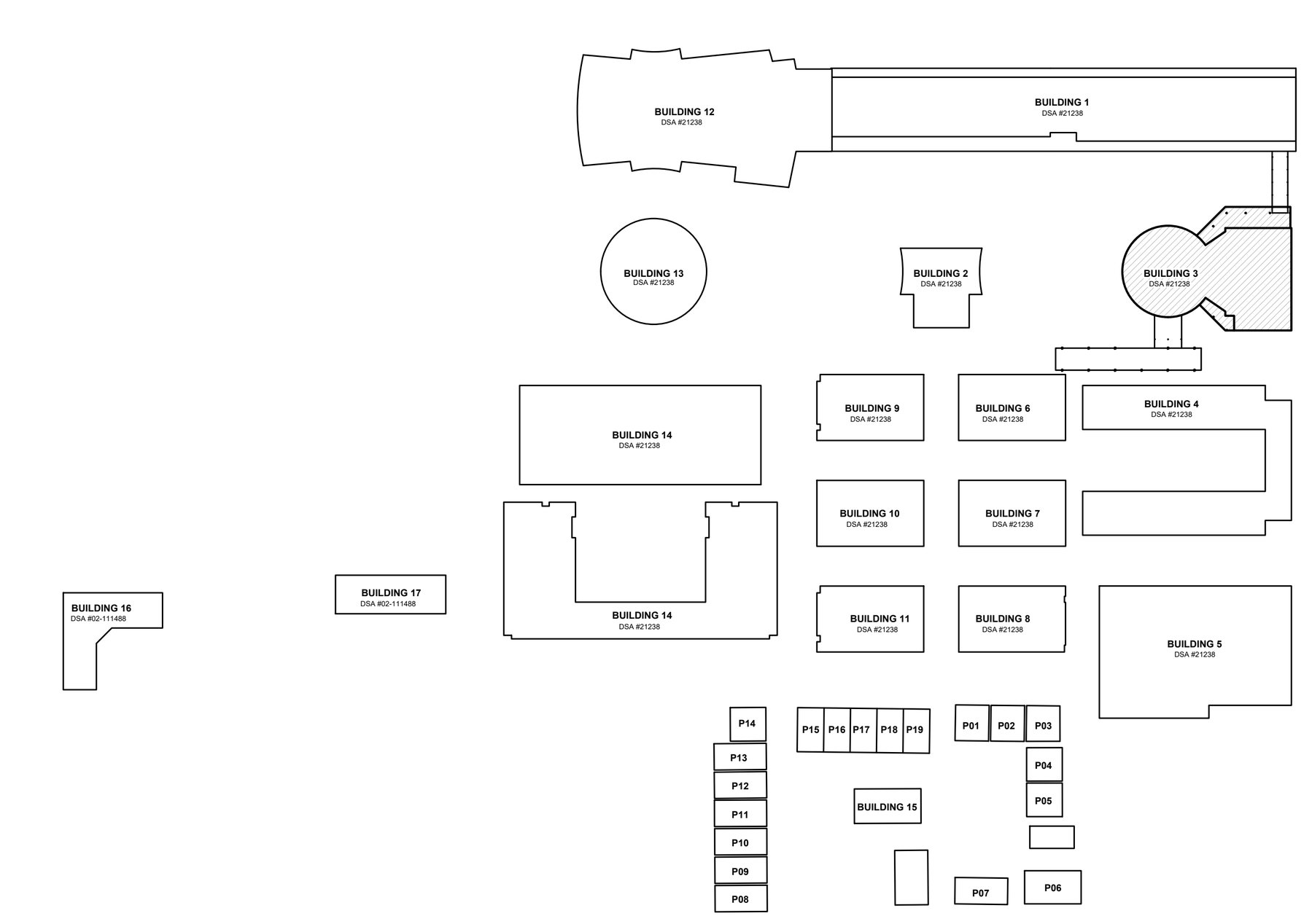
FOUNDATION PLAN KEYNOTES:

1. (E) SLAB TO BE SAW CUT, REMOVED & REPLACED W/ (N) SLAB - (N) SLAB TO BE REINFORCED WITH #4 BARS @ 18"cc EACH WAY & PROVIDE 15MIL MINIMUM VAPOR BARRIER. (N) SLAB THICKNESS TO MATCH GREATER OF (E) SLAB THICKNESS OR 4" - CONTRACTOR HAS OPTION TO CUT (E) SLAB ONLY IN AREAS OF (N) UNDER SLAB PIPING.
2. COORDINATE (N) SLAB WITH DOOR MANUFACTURER FOR EMBEDDED TRACK
3. SCULLERY WALL INFILL - SEE ARCH DRAWINGS & 7/S4.01



STRUCTURAL PLAN
CAFETERIA - FOUNDATION
1/8" = 1'-0"

BUILDING KEY PLAN:



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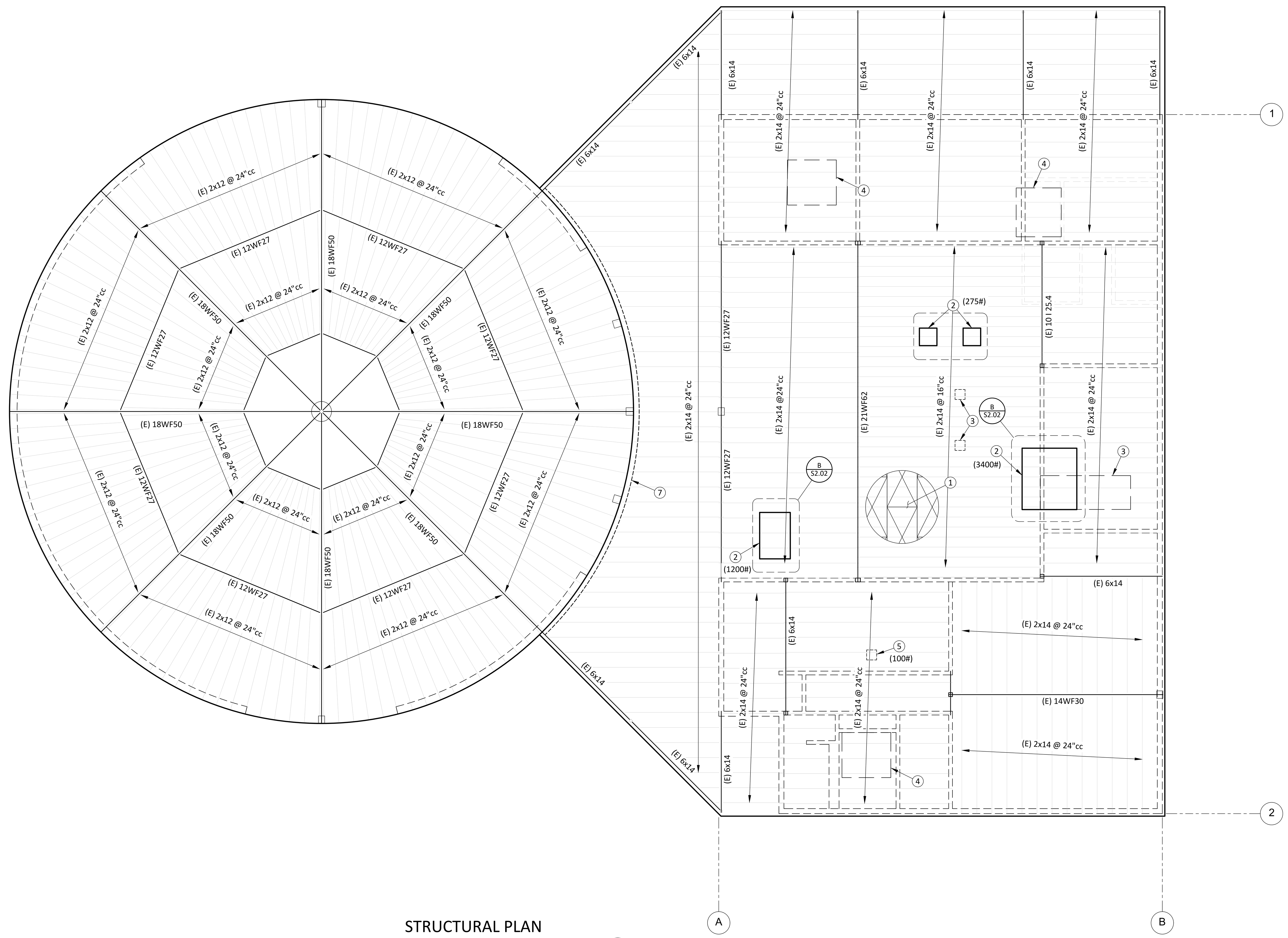
SHEET NAME:
STRUCTURAL PLAN - CAFETERIA - FOUNDATION

DSA SUBMITTAL

DATE: 09/18/2024 CLIENT PROJ NO: 3186071000

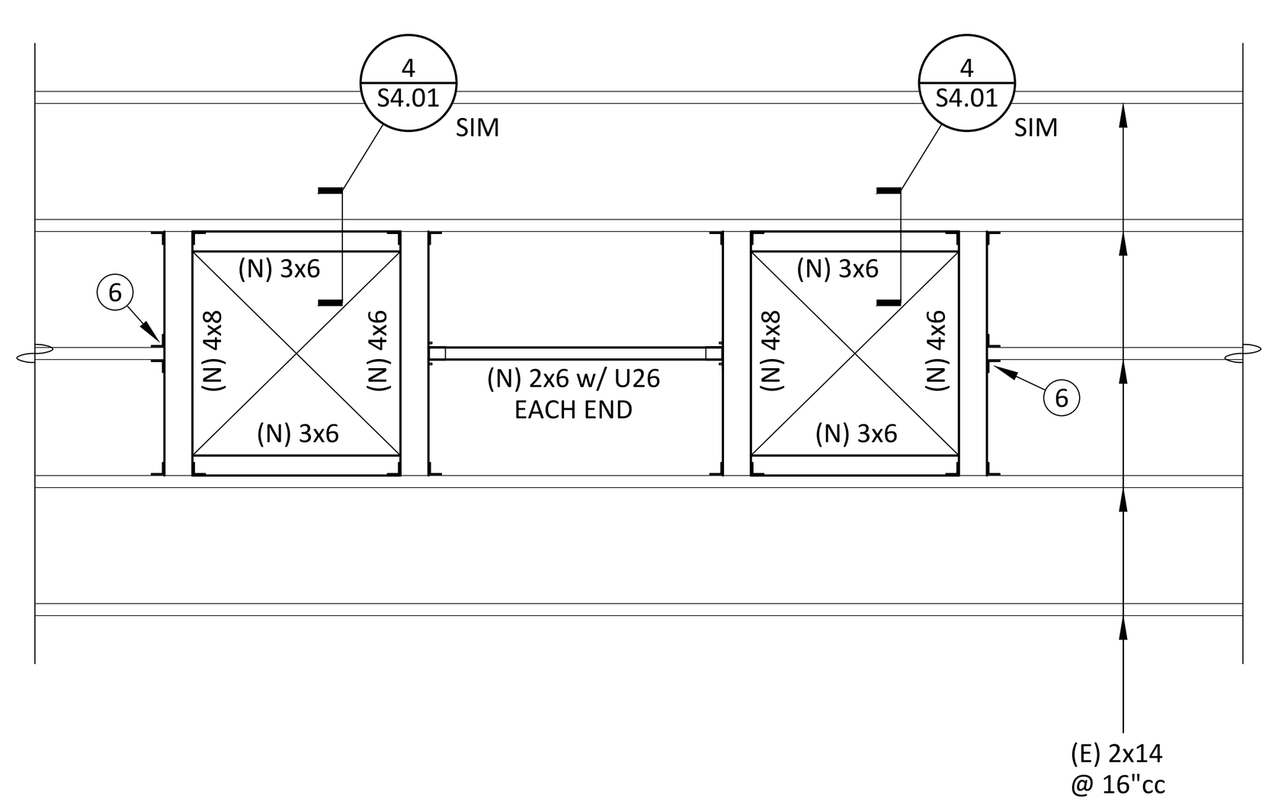
SHEET:
S2.01

PLEASE RECYCLE

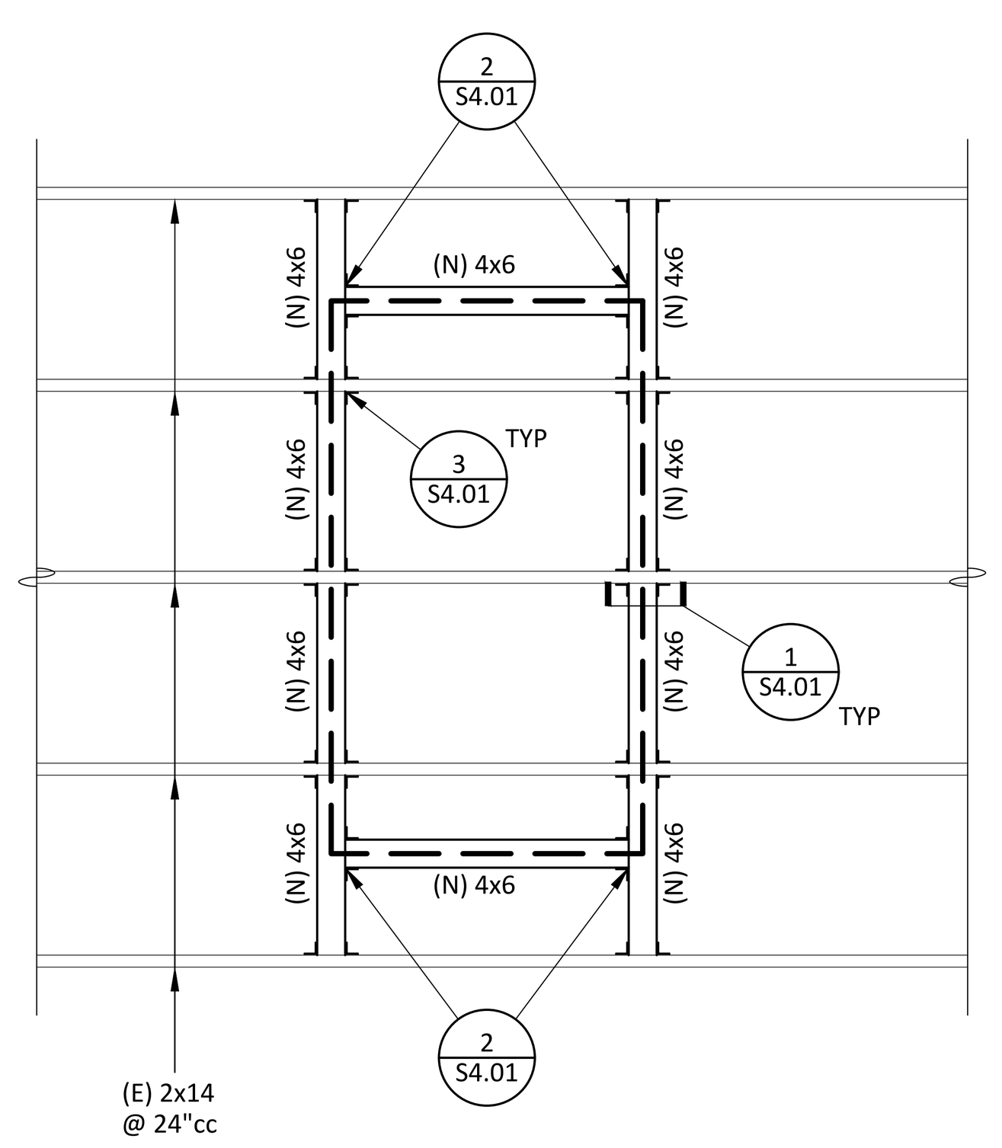


STRUCTURAL PLAN
CAFETERIA - PARTIAL ROOF
$\frac{1}{8}$" = 1'-0"

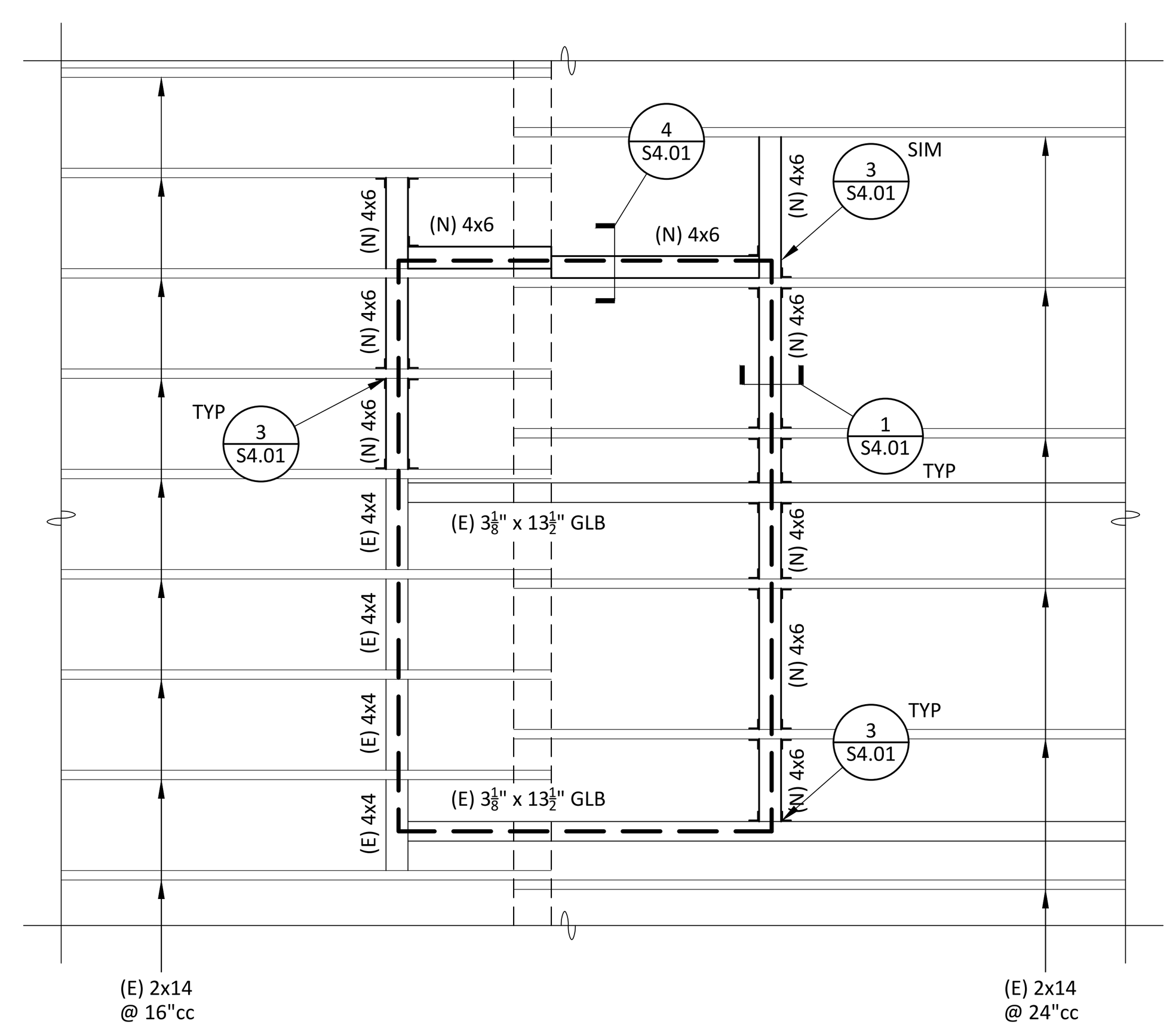
N



PARTIAL PLAN @
MECH UNIT (KEF 3-1, 3-2)
$\frac{1}{2}$" = 1'-0"
C



PARTIAL PLAN @
MECH UNIT (HP 3-1)
$\frac{1}{2}$" = 1'-0"
B



PARTIAL PLAN @
MECH UNIT (MAU 3-1)
$\frac{1}{2}$" = 1'-0"
A

STRUCTURAL PLAN NOTES:

1. CONTRACTOR SHALL COORDINATE ALL WORK CONTAINED HEREIN WITH ALL PROJECT WORK BY OTHERS INCLUDING CIVIL, ARCHITECTURAL, MECHANICAL, ELECTRICAL & PLUMPING.
2. STRUCTURAL SCOPE IS LIMITED TO MISCELLANEOUS FRAMING MODIFICATIONS TO ACCOMMODATE HVAC UPGRADES TO EACH BUILDING. ALL WORK PERFORMED IS TO NOT IMPACT EXISTING LATERAL FORCE RESISTING SYSTEM.
3. NEW MECHANICAL EQUIPMENT IS TO BE PLACED ON CURBS PER MECHANICAL DRAWINGS.
4. SUPPLEMENTAL FRAMING SHOWN UNDER NEW HVAC EQUIPMENT / EXISTING CURBS INDICATED AS "(N) OR (E)" IS TO BE FIELD VERIFIED UPON COMMENCING WORK.
5. IF NO SUPPLEMENTAL FRAMING EXISTS, NEW FRAMING AS INDICATED IS TO BE INSTALLED.
6. IF SUPPLEMENTAL FRAMING EXISTS BUT DIFFERS FROM THAT SPECIFIED, SEOR IS TO BE NOTIFIED SO EXISTING CONDITIONS CAN BE ASSESSED AND THE DETERMINATION CAN BE MADE IF EXISTING FRAMING IS SUFFICIENT.
7. ALL NEW FRAMING REQUIRED IS TO BE INSTALLED FROM BELOW THE ROOF DECK OR STRUCTURAL SHEATHING, SUCH THAT DEMO AND REPAIR OF ROOFING FINISH AND ROOF SUBSTRATE IS NOT INTERRUPTED.
8. ALL DUCT DROP OPENINGS IN THE ROOF ARE EXISTING. NO NEW ROOF PENETRATIONS ARE TO BE CREATED WITHOUT PRIOR APPROVAL OF SEOR.
9. SEE M7.01 FOR DUCT SUPPORT DETAILS

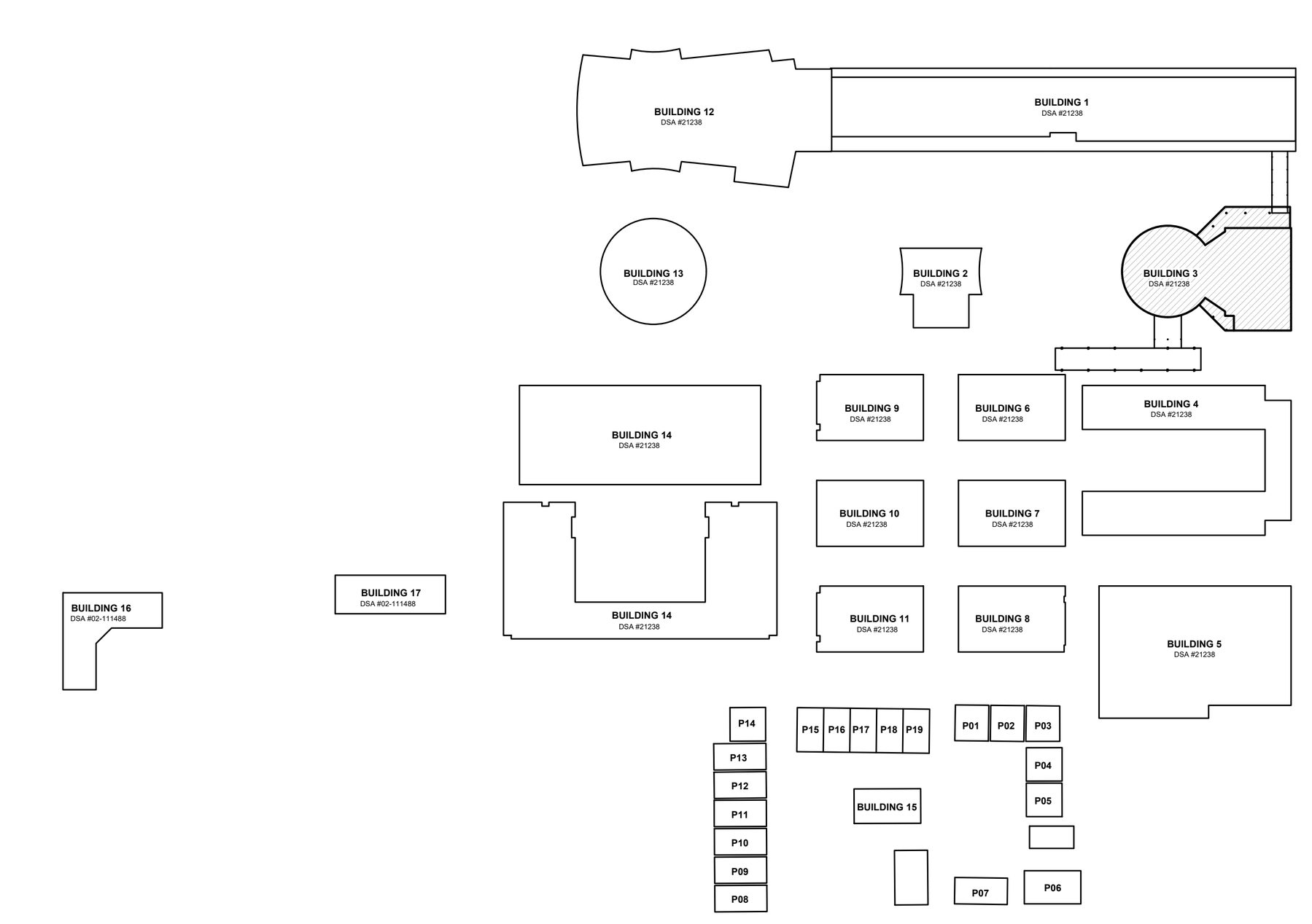
STRUCTURAL PLAN LEGEND:

EXISTING STUD WALL
EXISTING BEAM/GIRDER MEMBER
EXISTING JOIST/RAFTER MEMBER
NEW FRAMING MEMBER
NEW HVAC EQUIPMENT
EXISTING HVAC EQUIPMENT

STRUCTURAL PLAN KEY NOTES:

1. EXISTING $\frac{1}{2}$" PLYWOOD ROOF SHEATHING
2. NEW HVAC EQUIPMENT TO BE INSTALLED ON NEW CURB, WEIGHT INDICATED IN PARENTHESIS - SEE MECHANICAL DRAWINGS & 1/S4.01
3. EXISTING UNIT TO BE REMOVED
4. EXISTING UNIT TO REMAIN
5. REMOVE & REPLACE EXHAUST FAN - SEE 3/M7.02
6. CUT (E) 2x14 JOIST & CONNECT TO (N) 4x8 w/ (2) A34 CLIPS, STAGGER EACH SIDE OF JOIST
7. (N) FOLDING PARTITION FRAMING @ CEILING FRAMING BELOW - SEE DETAIL 8/S4.01

BUILDING KEY PLAN:



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PROJECT:
BUILDING MODERNIZATION

SHEET NAME:
STRUCTURAL PLAN - CAFETERIA - ROOF FRAMING

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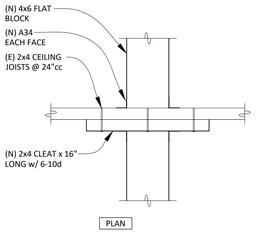
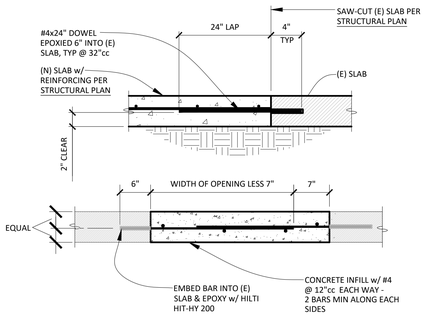
DATE: 09/18/2024 CLIENT PROJ NO: 3186071000

SHEET:
S2.02



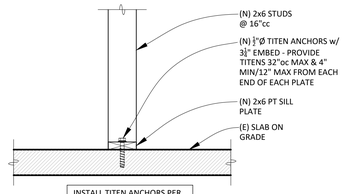
DETAIL 8
1½" = 1'-0"



DETAIL NOTES:

1. ALL SLAB DEMO IS TO BE DONE BY FIRST SAW CUTTING SLAB.
2. WHERE VAPOR BARRIER IS ENCOUNTERED, PATCH EXISTING VAPOR BARRIER WITH 15 MIL STEGO AND SEAL ALL JOINTS.
3. MATCH THICKNESS OF EXISTING SLAB, 4" MIN. PROVIDE UNDER-SLAB SUBSTRATE TO MATCH EXISTING CONDITIONS.
4. INSTALL EPOXIED REBAR WITH HILTI HIT-HY 200 V3 PER ICC ESR-4868. PERIODIC INSPECTION NOT REQUIRED.
5. WHERE NEW CONCRETE IS IN CONTACT WITH EXISTING CONCRETE, ROUGHEN AND CLEAN SURFACE, AND APPLY BONDING AGENT.

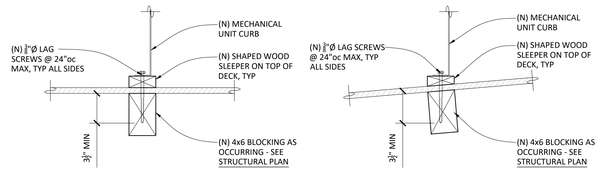
DETAIL 5
1½" = 1'-0"



INSTALL TITEN ANCHORS PER ICC ESR-2713. TORQUE TEST 10% OF ANCHORS TO 65 FT-LB

DETAIL 6
1½" = 1'-0"

DETAIL 7
1½" = 1'-0"



CONDITION @ NEW CURB

DETAIL 1
1½" = 1'-0"

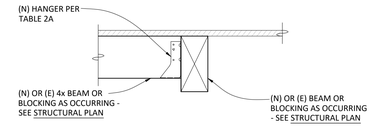
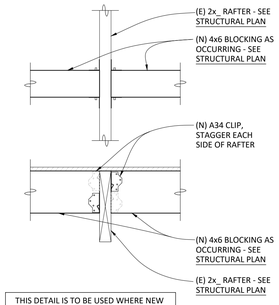


TABLE 2A

BRG SECTION	HANGER
4x6, 4x8	SIMPSON U46
4x10, 4x12	SIMPSON U410
4x14	SIMPSON U414

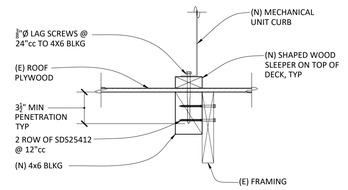
'A' CONDITION @ 4x FRAMING

DETAIL 2
1½" = 1'-0"



THIS DETAIL IS TO BE USED WHERE NEW 4x MEMBERS ARE TO BE FRAMED INTO BOTH SIDES OF EXISTING 2x MEMBERS

DETAIL 3
1½" = 1'-0"



DETAIL 4
1½" = 1'-0"

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FACILITY:

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3500 FLORIN ROAD
SACRAMENTO, CA 95823

PROJECT:

BUILDING MODERNIZATION

SHEET NAME:

DETAILS

DSA SUBMITTAL

DATE: **09/18/2024** | CLIENT PROJ NO: **3186071000**

SHEET:

S4.01

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS SHEET'S ORIGINAL PAGE SIZE

EQUIPMENT ANCHORAGE NOTES

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 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7–16 CHAPTERS 13, 26 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. 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:

A. 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.
B. 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 HUNG 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 WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING AND DUCTWORK DISTRIBUTION SYSTEM BRACING NOTES

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 2022 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., OSHPD 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 HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER 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 SPECIFIC NOTES AND DETAILS.
☐	☐	☐	☐	OPTION 2: SHALL COMPLY WITH THE APPLICABLE HCAI PRE–APPROVAL (OPM#) #0043–13 AS INCLUDED IN THESE DRAWINGS WITH PROJECT–SPECIFIC NOTES AND DETAILS.

PLUMBING LEGEND

SYMBOL	ITEM	ABBR.
S / 1	FIXTURE DESIGNATION UNIT ABBREVIATION NUMBER	
1 / P–1	DETAIL DESIGNATION DETAIL NUMBER SHEET NO. WHERE SHOWN	
-CW---	DOMESTIC COLD WATER	CW
-HW----	DOMESTIC HOT WATER	HW
	DOMESTIC HOT WATER SUPPLY	HWS
	DOMESTIC HOT WATER RETURN	HWR
---V---	VENT	V
—G—	GAS	G
—MG—	MEDIUM PRESSURE GAS	MG
—LPG—	LIQUID PROPANE GAS	LPG
—S—	SEWER	S
—GW—	GREASE WASTE	GW
—OS—	OIL/SAND WASTE	OS
—AW—	ACID WASTE	AW
—SD—	STORM DRAIN	SD
—RD—	ROOF DRAIN	RD
—OD—	OVERFLOW DRAIN	OD
—C—	CONDENSATE DRAIN	C
—SCD—	SECONDARY DRAIN	SCD
—D—	DRAIN	D
—T&P—	TEMPERATURE & PRESSURE RELIEF	T&P
—FS—	FIRE SPRINKLER	FS
	PIPE CAP	
	PIPE RISER/DROP	(R)/(D)
	SHUT–OFF VALVE IN BOX	SOV
FCO	FLOOR CLEANOUT	FCO
COTG	CLEANOUT TO GRADE	COTG
	WALL CLEANOUT	WCO
	CLEANOUT	CO
	HOSE BIBB	HB
	OVERFLOW DRAIN OUTLET	
	BALL VALVE	BV
	GATE VALVE	GV
	CHECK VALVE	CHK.V
	MIXING VALVE	TMV
	SHUT–OFF COCK	SOC
	CIRCULATION PUMP	CP
	BALANCING VALVE	BLV
	TRAP PRIMER	TP
	TYPICAL	(TYP)
	VENT THRU ROOF	VTR
	UNDERGROUND	UG
	UNDER FLOOR	UF
	ABOVE CEILING	AB.C.
	TO ABOVE/BELOW	TA/TB
	FROM ABOVE/BELOW	FA/FB
	CONTINUATION	CONT.
	NEW	(N)
	EXISTING	(E)
	POINT OF DIS/CONNECTION	POD/POC

PLUMBING NOTES

A. THIS CONTRACTOR SHALL COMPLY WITH ALL CODES AND REGULATIONS IN EFFECT AT THE JOB SITE, INCLUDING, BUT NOT LIMITED TO:
  - A.1. 2022 CALIFORNIA BUILDING CODE
  - A.2. 2022 CALIFORNIA MECHANICAL CODE
  - A.3. 2022 CALIFORNIA PLUMBING CODE
  - A.4. 2022 CALIFORNIA ELECTRICAL CODE
  - A.5. 2022 CALIFORNIA GREEN BUILDING STANDARDS
  - A.6. 2022 CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS – TITLE 24
  - A.7. NATIONAL FIRE PROTECTION ASSOCIATION
  - A.8. CALIFORNIA STATE FIRE MARSHAL

B. DRAWINGS ARE SCHEMATIC AND DIAGRAMMATIC. DRAWINGS INDICATE THE GENERAL ARRANGEMENT OF EQUIPMENT, PIPING, AND OTHER PLUMBING WORK. USE JUDGEMENT AND CARE TO INSTALL PLUMBING WORK TO FIT THE JOB CONDITIONS WITHIN THE BUILDING CONSTRUCTION AND FINISHES, AND TO FUNCTION PROPERLY.

C. CONTRACTOR SHALL EXAMINE THE SITE, VERIFY DIMENSIONS AND LOCATIONS WITH DRAWINGS, CHECK UTILITY CONNECTION LOCATIONS, AND FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS AND LIMITATIONS. NO EXTRAS WILL BE ALLOWED BECAUSE OF THE CONTRACTOR'S MISUNDERSTANDING OF THE AMOUNT OF WORK INVOLVED OR HIS LACK OF KNOWLEDGE OF ANY SITE CONDITION WHICH MAY AFFECT HIS WORK. ANY APPARENT VARIANCE OF THE DRAWINGS OR SPECIFICATIONS FROM THE EXISTING CONDITIONS AT THE SITE SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.

D. THIS CONTRACTOR SHALL ORGANIZE HIS WORK SO THAT THE PROGRESS OF THE PLUMBING WORK WILL CONFORM TO THE PROGRESS OF THE OTHER TRADES, AND SHALL COMPLETE THE ENTIRE INSTALLATION AS SOON AS THE CONDITIONS OF THE BUILDING WILL PERMIT. ANY COST RESULTING FROM DEFECTIVE OR ILL TIMED WORK PERFORMED UNDER THIS SECTION SHALL BE BORNE BY THIS CONTRACTOR.

E. THE WORK SHALL ALSO INCLUDE THE COMPLETION OF DETAILS OF PLUMBING WORK NOT MENTIONED OR SHOWN WHICH ARE NECESSARY FOR THE SUCCESSFUL OPERATION OF PLUMBING SYSTEMS DESCRIBED ON THE DRAWINGS OR REQUIRED BY THESE SPECIFICATIONS. FURNISH AND INSTALL ANY INCIDENTAL WORK NOT SHOWN OR SPECIFIED WHICH IS REQUIRED TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.

F. ALL MATERIALS AND EQUIPMENT INSTALLED UNDER THIS CONTRACT SHALL BE GUARANTEED FREE FROM ALL MECHANICAL, ELECTRICAL AND WORKMANSHIP DEFECTS FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ALL DAMAGED ITEMS INSTALLED UNDER THIS CONTRACT WITHOUT ADDITIONAL COST TO OWNER.

G. THE PLUMBING CONTRACTOR SHALL PROVIDE THE OWNER COPIES OF OPERATION, MAINTENANCE AND PREVENTATIVE MAINTENANCE MANUALS FOR EACH MODEL AND TYPE OF PLUMBING EQUIPMENT.

H. SUBMIT MANUFACTURER'S PRODUCT DATA INCLUDING NAME OF MANUFACTURER, TRADE NAME, MODEL, CAPACITY, OPTIONS, DIMENSIONS, WEIGHTS, INSTALLATION AND STARTUP DATA. EQUIPMENT PERFORMANCES SCHEDULED ARE MINIMUM CAPACITY, FLOW, EFFICIENCY, ETC. REQUIRED. WEIGHTS AND ELECTRICAL DATA SCHEDULED IS MAXIMUM AVAILABLE OR ALLOWABLE.

I. ALL EQUIPMENT IS TO BE INSTALLED AS RECOMMENDED BY THE MANUFACTURER. USING ALL ACCESSORY EQUIPMENT AVAILABLE FROM THE MANUFACTURER FOR SUPPORTS, CONTROLS, ETC., TO MAKE A COMPLETE SYSTEM. ALL EQUIPMENT OR ACCESSORIES NEEDED AND NOT SHOWN OR SPECIFIED SHALL BE FURNISHED AND INSTALLED BY THIS CONTRACTOR. ADJUST THE EQUIPMENT FOR PROPER OPERATION, CHECK ALL CONTROLS AND VERIFY THAT ALL SAFETY DEVICES ARE FUNCTIONING PROPERLY.

J. PROVIDE ACCESS DOORS WHERE ACCESS THROUGH FLOORS, WALLS OR CEILINGS IS REQUIRED TO ACCESS PLUMBING COMPONENTS OR OTHER SYSTEMS REQUIRING ACCESS FOR MAINTENANCE, TESTING OR OBSERVATION. COORDINATE THE EXACT TYPE AND LOCATION OF ACCESS DOORS TO PROVIDE PROPER ACCESS TO THE ITEM CONCEALED.

K. CHECK ALL SYSTEMS FOR LEAKS AND EXCESSIVE NOISE. CORRECT ANY DEFICIENCIES AS SOON AS DISCOVERED. OPERATE THE SYSTEMS AS A TEST AND DEMONSTRATE TO THE OWNER THAT THE SYSTEM IS FUNCTIONING PROPERLY.

L. INSTALL PIPING TO ALLOW FOR EXPANSION AND CONTRACTION WITHOUT STRESSING PIPE, JOINTS, OR CONNECTED EQUIPMENT.

M. PLUMBING EQUIPMENT AND PIPING SHALL NOT BE WITHIN ELECTRICAL OR LOW VOLTAGE EQUIPMENT DEDICATED SPACE. NO PIPING WILL BE ALLOWED ABOVE EQUIPMENT'S DEDICATED SPACE.

N. ALL EXPOSED MATERIAL SHALL BE PREPARED WITH A PRIME COAT AND THEN PAINTED, COLOR BY ARCHITECT.

O. NEW BUILDINGS 10,000 SQUARE FEET AND ABOVE TO BE COMMISSIONED PER REQUIREMENTS LISTED IN CALGREEN SECTION 5.410.2.

P. ADHESIVES, SEALANTS AND CAULKS USED ON THE PROJECT SHALL MEET THE REQUIREMENTS LISTED IN CALGREEN SECTION 5.504.4.1.

Q. FOR NEW BUILDINGS IN EXCESS OF 50,000 SQUARE FEET, OR WATER CONSUMPTION IN EXCESS OF 1,000 GAL/DAY, PROVIDE WATER SUB–METERS AS REQUIRED PER CALGREEN SECTION 5.303.1.1.

R. PLUMBING FIXTURES (WATER CLOSETS AND URINALS) AND FITTINGS (FAUCETS AND SHOWERHEADS) SHALL COMPLY WITH WATER CONSERVING REQUIREMENTS LISTED IN CALGREEN SECTION 5.303.3.

S. COORDINATE ALL NEW OR CHANGING UTILITY SERVICES WITH UTILITY PROVIDER AS SOON AS POSSIBLE. ANY COST RESULTING FROM WORK PERFORMED PRIOR TO COORDINATING WITH UTILITY COMPANY WHICH DOES NOT COMPLY WITH UTILITY COMPANY REQUIREMENTS SHALL BE BORNE BY THIS CONTRACTOR.

T. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS, FIXTURE MOUNTING HEIGHTS AND CBC ACCESSIBILITY REQUIREMENTS.

PLUMBING SHEET INDEX

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M 41413
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3500 FLORIN RD
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PROJECT:

LUTHER BURBANK HIGH SCHOOL CAFETERIA MODERNIZATION

SHEET NAME:

PLUMBING LEGEND, NOTES AND SPECIFICATIONS

DSA SUBMITTAL

DATE: **09/18/2024** CLIENT PROJ NO: **3186071000**

SHEET:

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THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS SHEETS ORIGINAL PAGE SIZE

KITCHEN EQUIPMENT SCHEDULE

EQUIP. NO.	DESCRIPTION	S or W	IND. WASTE	V	CW	HW	GAS (MBH)
6	CHEF'S SINK	---	2"	---	3/4"	3/4"	---
15	HAND SINK	2"	---	1-1/2"	3/4"	3/4"	---
17	PREP SINK	---	2"	---	3/4"	3/4"	---
20	COMBI-OVEN	---	2"	---	3/4"	---	---
20.1	WATER FILTRATION	---	---	---	3/4"	---	---
24	CHEF'S SINK	---	2"	---	3/4"	3/4"	---
27	HAND SINK	2"	---	1-1/2"	3/4"	3/4"	---
29	FLOOR TROUGH	4"	---	2"	---	---	---
34	TILT SKILLET	---	---	---	1/2"	1/2"	---
35	ICE MAKER	---	2"	---	1/2"	---	---
39	THREE-COMP	---	2"	---	(2) 3/4"	(2) 3/4"	---
40	PRE-RINSE	---	---	---	1/2"	1/2"	---
41	DISPOSER	2"	---	1-1/2"	1/2"	---	---
42	WARE WASHER	---	2"	---	3/4"	3/4"	---
43	HOSE REEL	---	---	---	1/2"	1/2"	---

NOTES:
1. COORDINATE CLOSELY WITH KITCHEN EQUIPMENT COMPANY FOR EQUIPMENT LOCATIONS, CONNECTION SIZES AND REQUIREMENTS.
2. SEE KITCHEN EQUIPMENT PLAN FOR EQUIPMENT SCHEDULE AND REQUIREMENTS.
3. PROVIDE INDIVIDUAL SHUT-OFF VALVES AT ALL CW, HW & GAS CONNECTIONS.
4. PROVIDE AND INSTALL STRAINERS ON INDIVIDUAL GAS SUPPLY LINES.
5. PROVIDE QUICK DISCONNECT WITH CABLE RESTRAINT FOR ALL GAS EQUIPMENT CONNECTIONS PER KITCHEN EQUIPMENT PLAN.
6. PROVIDE CHROME PLATED PIPES AND FITTINGS FOR ALL EXPOSED CONNECTIONS PER KITCHEN EQUIPMENT PLAN.
7. COORDINATE WITH KITCHEN EQUIPMENT PLUMBING PLAN FOR PLUMBING ROUGH-IN DIMENSIONS.

HANGER ROD SIZING

PER 2022 CPC TABLE 313.6

PIPE AND TUBE SIZE (IN)	ROD SIZE (IN)
1/2 – 4	3/8
5 – 8	1/2
10 –12	5/8

WHA SIZING

FIXTURE TYPE	FIXTURE UNITS (PER FIXTURE)
WATER CLOSET	8
URINAL	4
LAVATORY	2

PDI SIZE	FIXTURE UNITS (PER ARRESTOR)
A	1-11
B	12-32
C	33-60
D	61-113
E	114-154
F	155-330

NOTES:
1. PROVIDE WATER HAMMER ARRESTORS AS REQUIRED IN SPECIFICATIONS.
2. WATER HAMMER ARRESTOR SIZING SHALL BE THE MORE STRINGENT OF THE TABLE ABOVE AND CURRENT PDI (PLUMBING & DRAINAGE INSTITUTE) REQUIREMENTS.
3. LOCATE WATER HAMMER ARRESTORS AS CLOSE TO BRANCH PIPING AS POSSIBLE.

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	S or W	V	CW	HW	DESCRIPTION
WC-1	WATER CLOSET ADA	4"	2"	1-1/2"	---	AMERICAN STANDARD MODEL 2257.101, "AFWALL" 16-1/2" HEIGHT FLOOR MOUNTED VITREOUS CHINA ELONGATED FLUSHOMETER BOWL, 1.28 GPF WITH ZURN MODEL ZER6000PL-HET-CPM SENSOR OPERATED BATTERY POWERED FLUSH VALVE, PROVIDE ZURN MODEL ZN1201 FLOOR MOUNT NARROW WALL FIXTURE CARRIER, PROVIDE BEMIS 1955SSCT OPEN FRONT SEAT WITH SELF-SUSTAINING CHECK HINGE. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT.
L-1	LAVATORY CBC ACCESS	2"	1-1/2"	1/2"	---	AMERICAN STANDARD MODEL 0355.012, "LUCERNE" ADA COMPLIANT WALL HUNG 20"X18" VITREOUS CHINA LAVATORY, FAUCET HOLS ON 4" CENTERS FOR ZURN MODEL Z6915-XL-TMV-1-FS AQUASENSE BATTERY-POWERED SENSOR FAUCET WITH 0.5 GPM AERATOR, PROVIDE SUPPLIES, STOPS AND 17 GAGE CHROME PLATED BRASS P-TRAP. METERING FAUCETS SHALL BE ADJUSTED TO FLOW FOR 10 SECONDS MINIMUM. WRAP SUPPLIES, STOPS AND P-TRAP PER CBC ACCESS REQUIREMENTS. INSTALL PER CBC ACCESS REQUIREMENTS.
HB-1	HOSE BIBB	---	---	3/4"	---	WOODFORD MODEL 24, BENT NOSE WITH VACUUM BREAKER, ROUGH CHROME FINISH, VANDAL RESISTANT, REMOVABLE LOOSE KEY HANDLE.
FD-1	FLOOR DRAIN	2"	1-1/2"	TP	---	JR SMITH MODEL 2005Y, 5" DIAMETER ROUND NICKEL BRONZE TOP WITH 2" PIPE, FLANGE AND SEEPAGE PAN. PROVIDE TRAP PRIMER CONNECTION.
FS-1	FLOOR SINK	3"	2"	TP	---	JAY R. SMITH MODEL 3150, COATED CAST IRON, ACID RESISTANT COATED INTERIOR, 12-1/2" SQUARE TOP, 10" DEEP, SEDIMENT BASKET, NICKLE-BRONZE RIM, 1/2 GRATE, DOUBLE DRAINAGE FLANGE, TRAP PRIMER CONNECTION SMITH 2697.
TP-1	TRAP PRIMER	---	---	1/2"	---	PRECISION PLUMBING PRODUCTS, INC. #PO-500 PRIME-RITE. PROVIDE 12 X 12 ACCESS DOOR FOR CONCEALED UNIT. COORDINATE ACCESS DOOR LOCATION WITH ARCHITECTURAL INTERIOR ELEVATIONS AND FINISHES.
TMV-1	THEMOSTATIC MIXING VALVE	---	----	3/4"	3/4"	LEONARD MODEL 270-LF, POINT OF USE LEAD-FREE THERMOSTATIC MIXING VALVE, MINIMUM 0.25 GPM FLOW, 12 GPM FLOW AT 50 PSI PRESSURE LOSS, ASSE 1017 AND 1070 LISTED, CA AB-1953 COMPLIANT. SET OUTLET TEMPERATURE TO 110°F. PROVIDE 12"X12" WALL ACCESS PANEL PER SPECIFICATIONS, FINISH BY ARCHITECT.
BFP-1	BACKFLOW PREVENTER	---	---	1/2"-3/4"	---	WATTS SERIES LF7 POINT OF USE LEAD-FREE DOUBLE CHECK VALVE. SEE PLAN FOR SIZE.
WB-1	WASHING MACHINE BOX	3"	2"	3/4"	3/4"	IPS CORPORATION MODEL W4702HA, RECESSED CENTER DRAIN PLASTIC WASHING MACHINE BOX WITH 1/4 TURN SHUT-OFF VALVES, WATER HAMMER ARRESTOR AND 1/2" PEX CONNECTION.
G1-1	GREASE INTERCEPTOR	4"	2"	---	---	SCHIER GREAT BASIN MODEL GB3, HYDROMECHANICAL GREASE INTERCEPTOR WITH 272 LB. CAPACITY AT 50 GPM. UNIT PROVIDED WITH INTEGRAL FLOW CONTROL AND PEDESTRIAN RATED COVER WITH ACCESS FOR MAINTENANCE. IAPMO, ASME AND CSA LISTED FOR INDOOR INSTALLATION. INSTALL PER MFGR'S RECOMMENDATIONS.

PIPE HANGER SCHEDULE

MATERIALS	TYPES OF JOINTS	HORIZONTAL	VERTICAL
CAST-IRON HUBLESS	CAST-IRON HUBLESS	EVERY OTHER JOINT, UNLESS OVER 4 FEET THEN SUPPORT EACH JOINT; NOTES 1,2,3,4	BASE AND EACH FLOOR, NOT TO EXCEED 15 FEET
COPPER TUBE AND PIPE	SOLDERED OR BRAZED	1-1/2 INCHES AND SMALLER, 6 FEET; 2 INCHES AND LARGER, 10 FEET	EACH FLOOR, NOT TO EXCEED 10 FEET; NOTE 5
STEEL PIPE FOR GAS	THREADED OR WELDED	1/2 INCH, 6 FEET; 3/4 INCH AND 1 INCH, 8 FEET; 1-1/4 INCHES AND LARGER, 10 FEET; NOTE 7	1/2 INCH, 6 FEET; 3/4 INCH AND 1 INCH, 8 FEET; 1-1/4 INCHES AND LARGER, EVERY FLOOR; NOTE 7
SCHEDULE 40 PVC AND ABS DWV	SOLVENT CEMENTED	ALL SIZES, 4 FEET; ALLOW FOR EXPANSION EVERY 30 FEET; NOTES 3,6	BASE AND EACH FLOOR; PROVIDE MID-STORY GUIDES; PROVIDE FOR EXPANSION EVERY 30 FEET; NOTE 6

NOTES:
1. HANGER SPACING PER CPC TABLE 313.3.
2. SEISMIC BRACING SPACING NOT TO EXCEED 40FT O.C. AND 2FT FROM CHANGES IN DIRECTION.
3. SEISMIC BRACING IS NOT REQUIRED FOR THE FOLLOWING CONDITIONS PER CBC 1617A.1.26 AND ASCE 7, SECTION 13.6.7.3 (EXCEPTION 2):
   - 3.1. PIPING CONTAINING HAZARDOUS CONTENTS (EX: NATURAL GAS, PROPANE, MEDICAL GASES) WITH AN Ip>1.0 WHERE:
     - 3.1.1. PIPE SIZE IS 1" OR LESS, AND
     - 3.1.2. PIPE IS SUPPORTED BY INDIVIDUAL HANGER NOT EXCEEDING 12", AND
     - 3.1.3. TOTAL WEIGHT SUPPORTED BY INDIVIDUAL HANGER IS 50 POUNDS OR LESS.
   - 3.2. ALL OTHER PIPING NOT CONTAINING HAZARDOUS CONTENTS WITH AN Ip=1.0 WHERE:
     - 3.2.1. PIPE SIZE IS 3" OR LESS, AND
     - 3.2.2. PIPE IS SUPPORTED BY INDIVIDUAL HANGER NOT EXCEEDING 12", AND
     - 3.2.3. TOTAL WEIGHT SUPPORTED BY INDIVIDUAL HANGER IS 50 POUNDS OR LESS.
4. SUPPORT ADJACENT TO JOINT, NOT TO EXCEED 18".
5. SUPPORT AT EACH HORIZONTAL BRANCH CONNECTION.
6. HANGERS SHALL NOT BE PLACED ON THE COUPLING.
7. SEE THE APPROPRIATE IAPMO INSTALLATION STANDARD FOR EXPANSION AND OTHER SPECIAL REQUIREMENTS.

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PROJECT:
LUTHER BURBANK HIGH SCHOOL CAFETERIA MODERNIZATION

SHEET NAME:
PLUMBING SCHEDULES

DSA SUBMITTAL

DATE: **09/18/2024** | CLIENT PROJ NO: **3186071000**

SHEET:
P0.02

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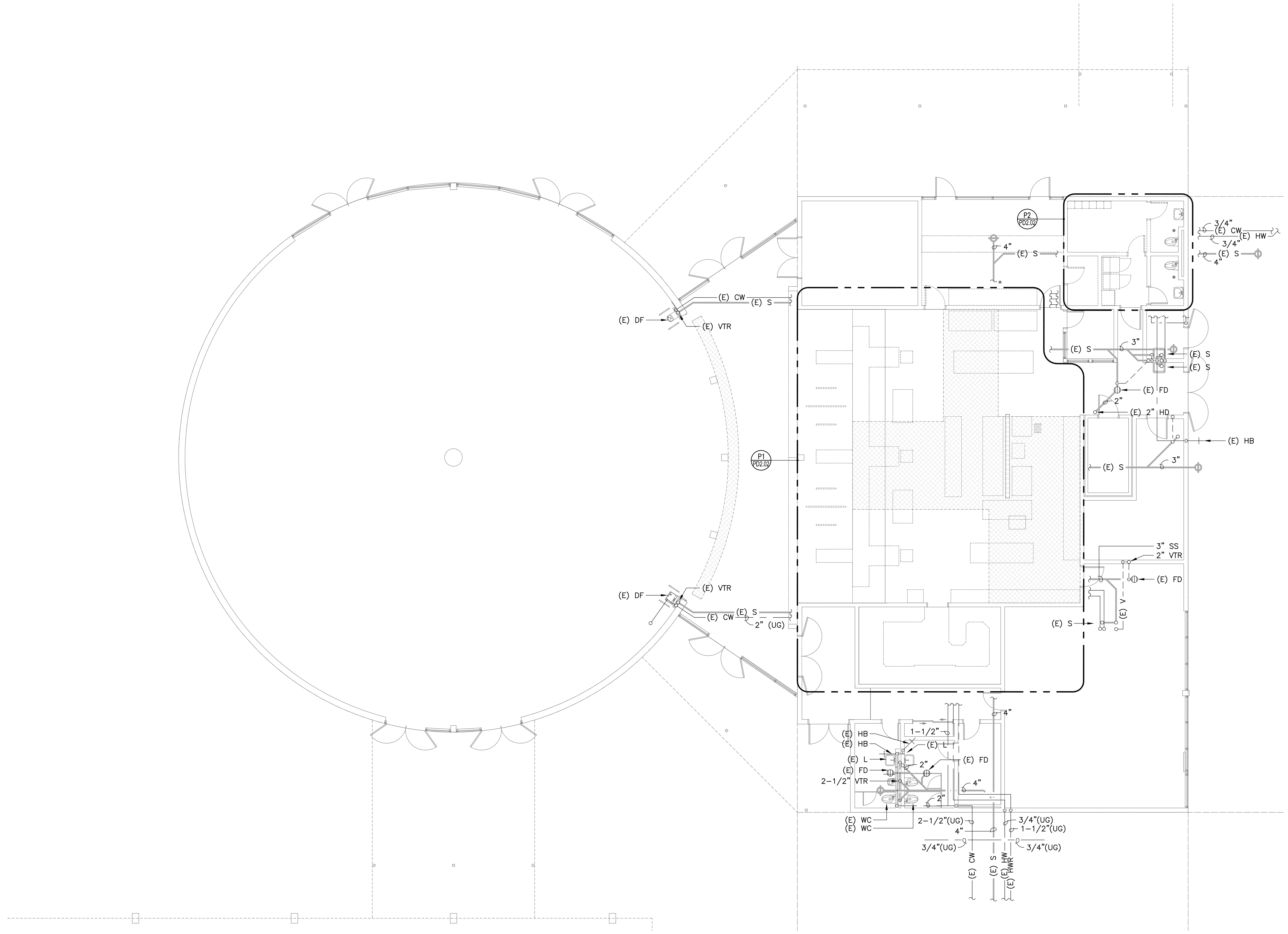

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PROJECT:
LUTHER BURBANK HIGH SCHOOL CAFETERIA MODERNIZATION

SHEET NAME:
PLUMBING DEMOLITION FLOOR PLAN

DSA SUBMITTAL

DATE: 09/18/2024 | CLIENT PROJ NO: 3186071000

SHEET:

PD2.01

PLUMBING DEMOLISHTION PLAN **P1**
1/8" = 1'-0"

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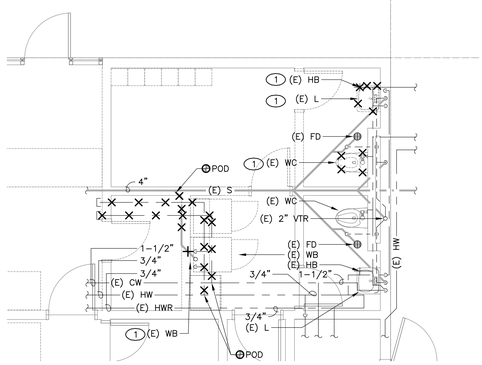

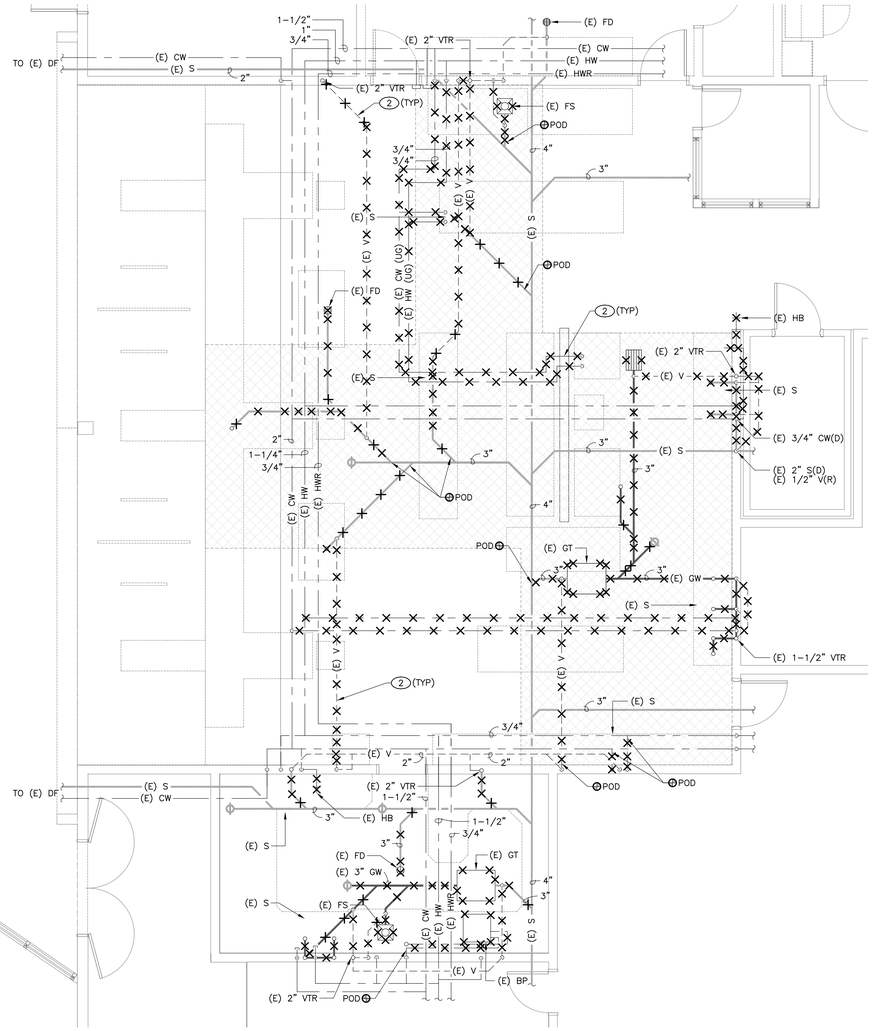

KEY NOTES

1. REMOVE EXISTING PLUMBING FIXTURE. MODIFY PIPING AS NECESSARY FOR RECONNECTION TO NEW PLUMBING FIXTURE.
2. REMOVE EXISTING PIPING SHOWN HATCHED BACK TO POD. TYPICAL.

PLUMBING ENLARGED DEMOLITION PLAN | P2
1/4" = 1'-0"

PLUMBING ENLARGED DEMOLITION PLAN | P1
1/4" = 1'-0"

PN

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PROJECT:
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SHEET NAME:
PLUMBING DEMOLITION ENLARGED FLOOR PLAN

DSA SUBMITTAL

DATE: **09/18/2024** | CLIENT PROJ NO: **3186071000**

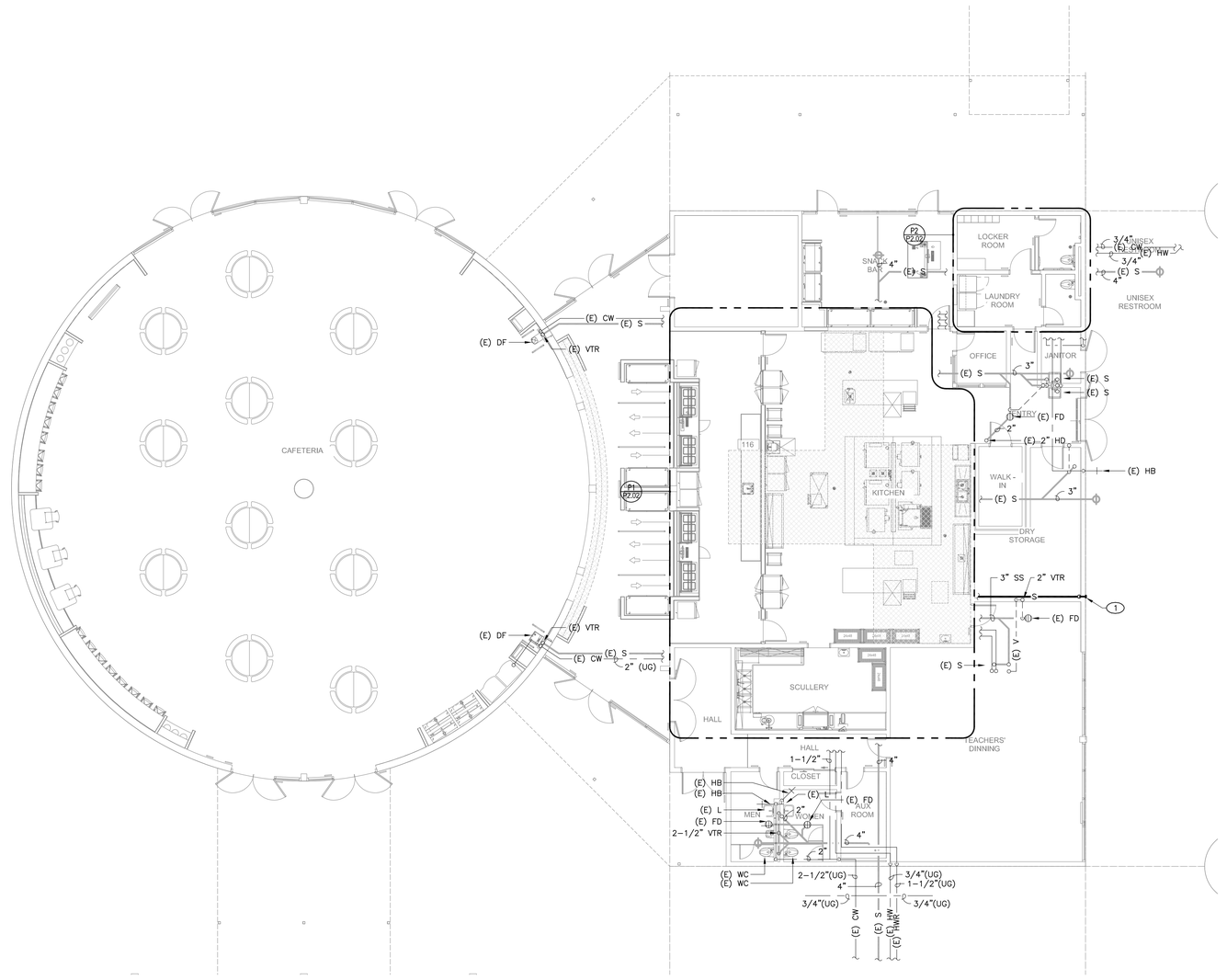
SHEET:

PD2.02

THE LINE SHOWN ABOVE IS 1" LONG ON ORIGINAL PLANS SHEETS ORIGINAL SHEET SIZE

KEY NOTES

1. PUMP–OUT PORT PIPING FROM KITCHEN GREASE TRAP. RISE TO 36" ABOVE FINISHED FLOOR AND PENETRATE THROUGH EXTERIOR WALL WITH MFGR PROVIDED CAP. SEAL PIPING PENETRATION THROUGH WALL WATERTIGHT. PROVIDE SIGN ABOVE PUMP–OUT PORT AT EXTERIOR WALL LABELED "GREASE TRAP PUMP PORT".



PLUMBING 1ST FLOOR PLAN | P1
1/8" = 1'-0"

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PROJECT:

LUTHER BURBANK HIGH SCHOOL CAFETERIA MODERNIZATION

SHEET NAME:

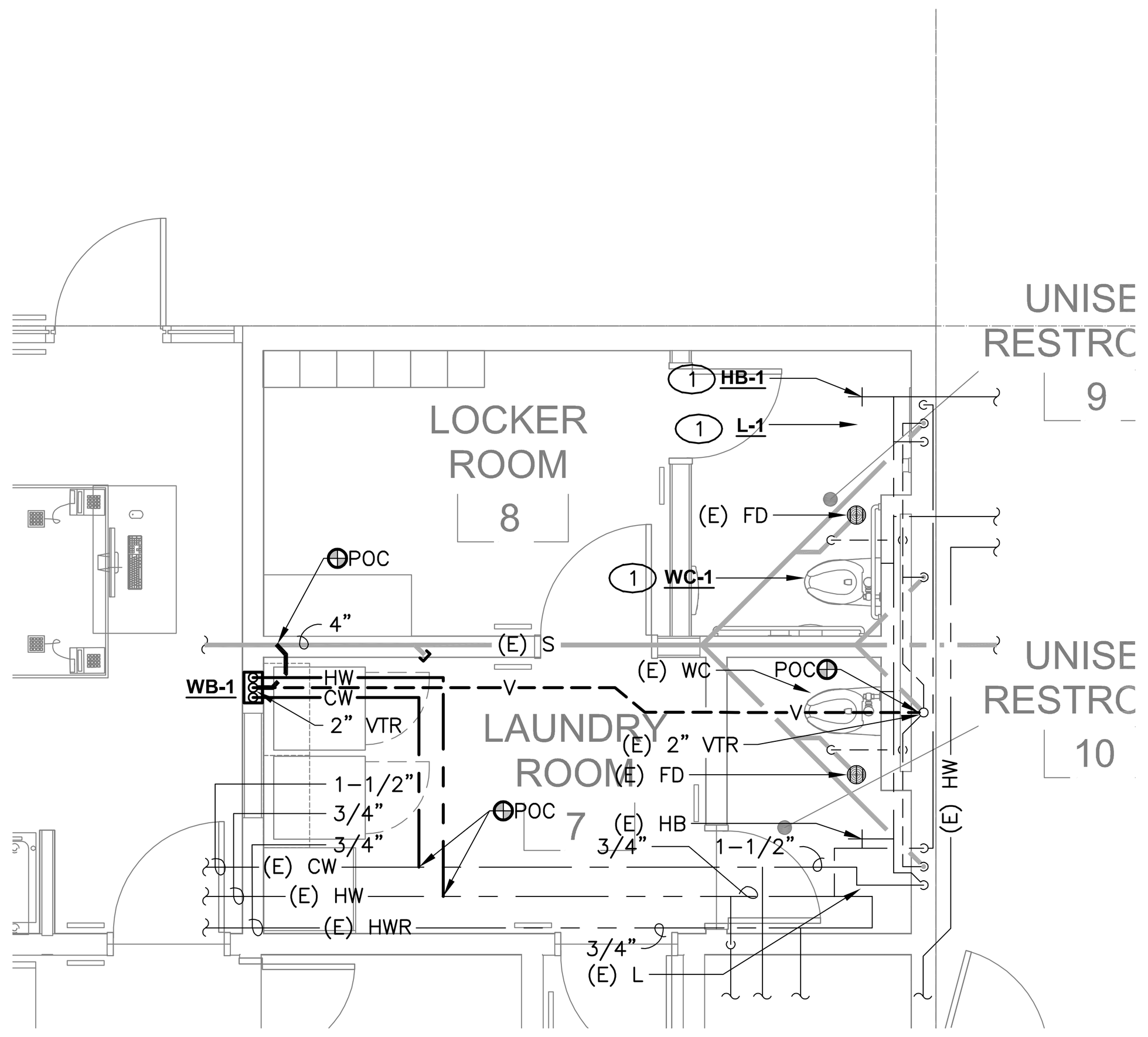
PLUMBING FLOOR PLAN

DSA SUBMITTAL

DATE: **09/18/2024** | CLIENT PROJ NO: **3186071000**

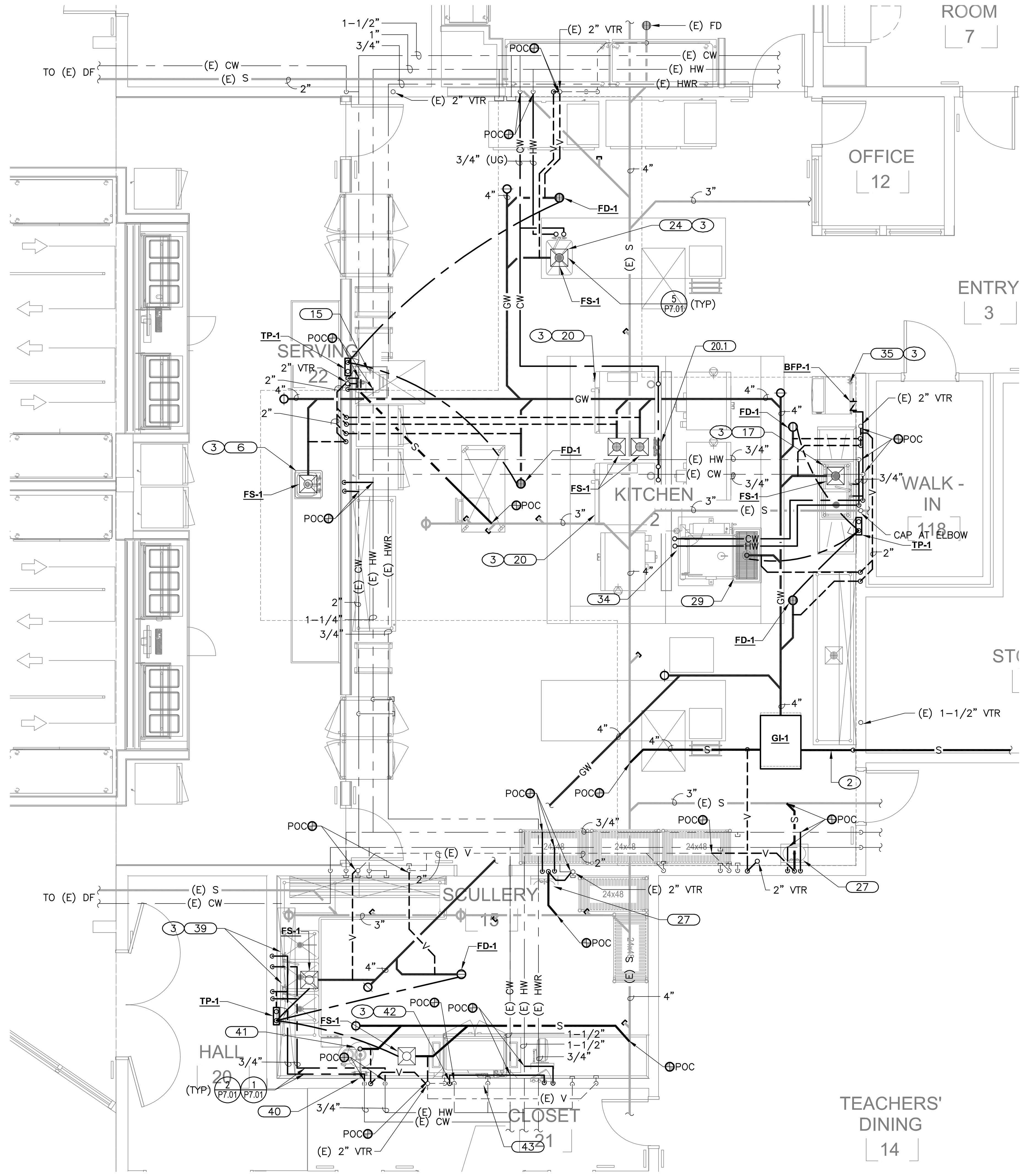
SHEET:

P2.01



PLUMBING ENLARGED DEMOLITION PLAN **P2**

1/4" = 1'-0"



PLUMBING ENLARGED DEMOLITION PLAN **P1**

1/4" = 1'-0"

KEY NOTES

1. CONNECT NEW PLUMBING FIXTURE TO EXISTING PLUMBING. MODIFY PIPING AS NECESSARY.
2. FULL SIZE SEWER CONNECTION TO GREASE TRAP PUMP-OUT PORT CONNECTION FOR REMOTE PUMPING.
3. DRAIN KITCHEN EQUIPMENT INDIRECTLY AT FLOOR SINK PER DETAIL 5/P7.01.

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M 41413
REN. 03-31-25
MECHANICAL
STATE OF CALIFORNIA

FACILITY:
LUTHER BURBANK HIGH SCHOOL
3500 FLORIN RD
SACRAMENTO, CA 95823

PROJECT:
LUTHER BURBANK HIGH SCHOOL CAFETERIA MODERNIZATION

SHEET NAME:
PLUMBING ENLARGED FLOOR PLAN

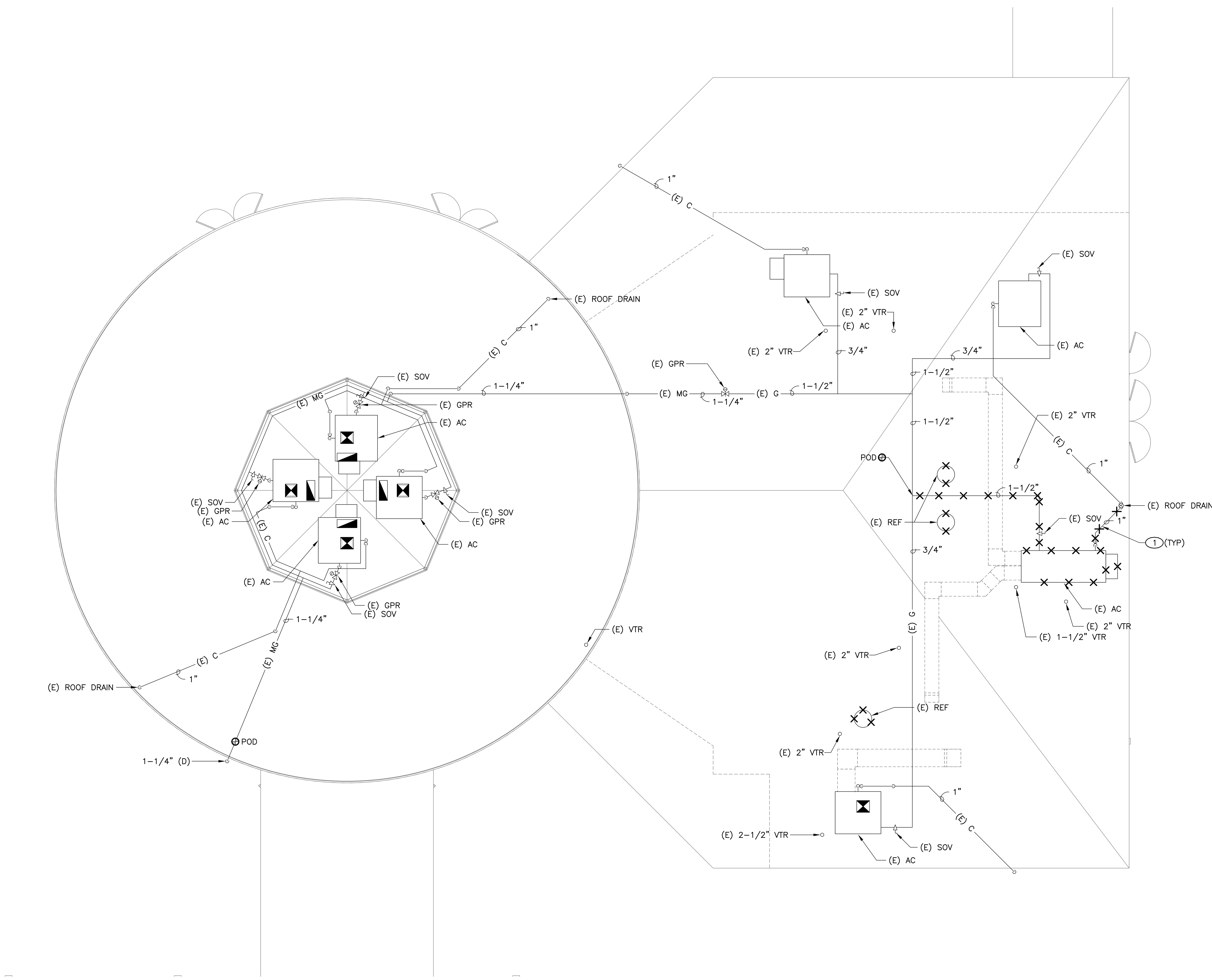
DSA SUBMITTAL

DATE: **09/18/2024** CLIENT PROJ NO: **3186071000**

SHEET:
P2.02

KEY NOTES

1. REMOVE EXISTING PIPING SHOWN HATCHED.



PLUMBING DEMOLITION ROOF PLAN **P1**
1/8" = 1'-0"

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3186-071-000
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PLUMBING DEMOLITION ROOF PLAN

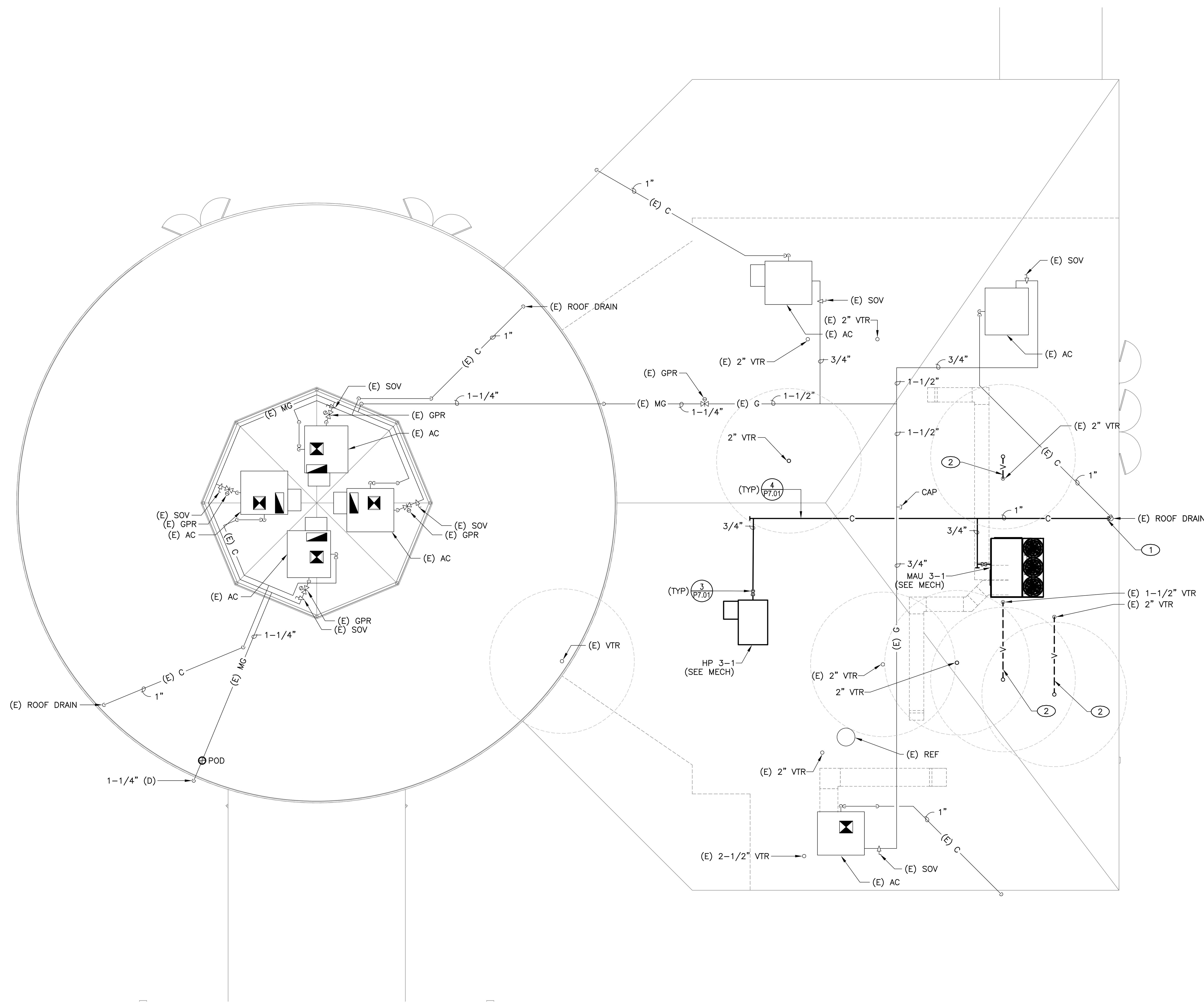
DSA SUBMITTAL

DATE: 09/18/2024 | CLIENT PROJ NO: 3186071000

SHEET:
PD4.01

KEY NOTES

1. DISCHARGE CONDENSATE DRAIN AT ROOF DRAIN WITH AIRGAP.
2. EXTEND EXISTING VTR 10' MINIMUM AWAY FROM MECHANICAL UNIT AIR INTAKE.



PLUMBING ROOF PLAN **P1**
1/8" = 1'-0"

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P4.01

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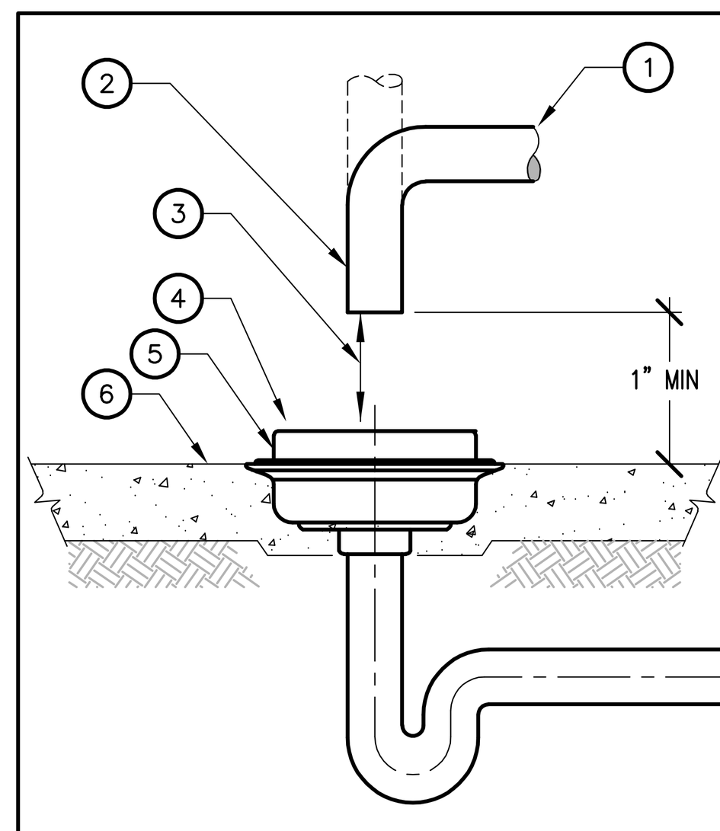
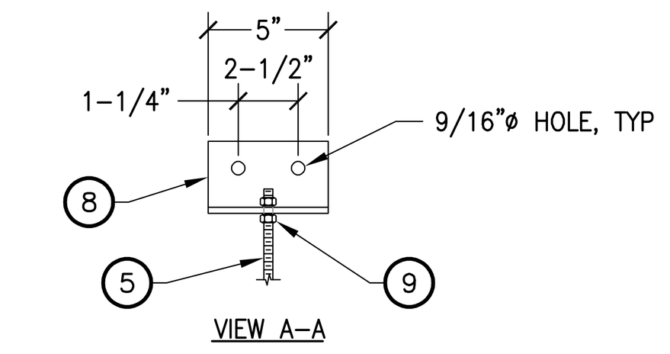


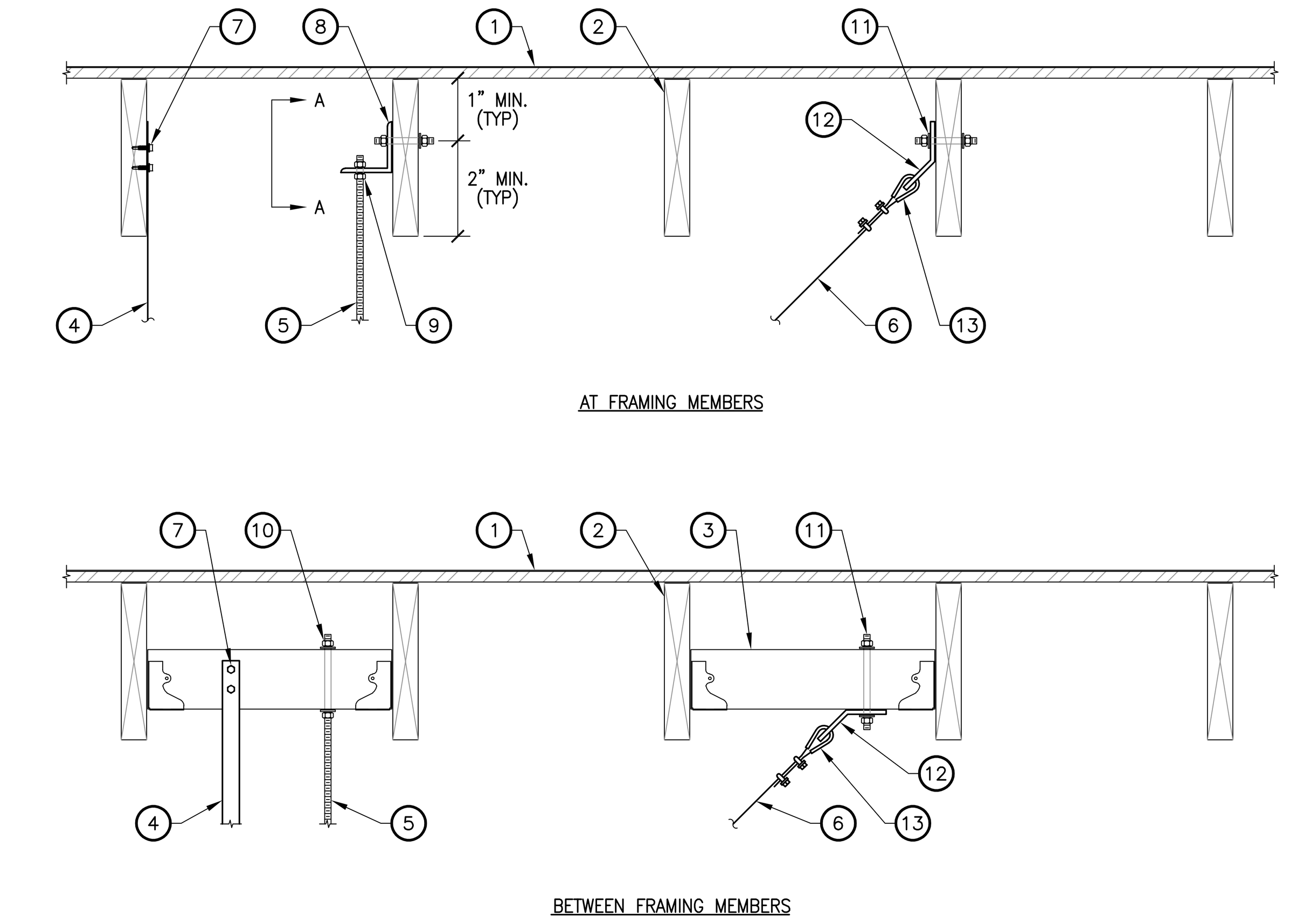
1. SEE PLUMBING FLOOR PLAN FOR PIPE ROUTING AND EQUIPMENT LAYOUT.
2. INDIRECT WASTE DRAIN PIPE. SEE PLAN FOR SIZE.
3. AIR GAP
4. FLOOR DRAIN. SEE PLUMBING FIXTURE SCHEDULE.
5. 2" HIGH WATER DAM.
6. CONCRETE PAD.

INDIRECT WASTE TO FLOOR DRAIN DETAIL | NTS | 5

1. FLOOR/ROOF, SEE STRUCTURAL DRAWINGS
2. FLOOR/ROOF FRAMING, SEE STRUCTURAL DRAWINGS
3. 4x4 BLOCKING BETWEEN JOISTS W/ U44 HANGERS AT EACH END, TYP.
4. 1" x 20 GA. GALV. SHEET METAL STRAP
5. 3/8"ø THREADED ROD, B-LINE ATR OR EQUAL
6. 3/32"ø PRE-STRETCHED GALVANIZED AIRCRAFT CABLE, 7x19 STRAND CORE
7. (2) #12 x 1" SMS, 2" O.C. MIN.
8. 3"x3"x1/4" x 5" LONG GALVANIZED STEEL ANGLE, ATTACH TO FRAMING WITH (2) 1/2"ø BOLTS OR THREADED ROD WITH NUTS AND WASHER
9. NUT, TOP AND BOTTOM
10. NUT AND WASHER, TOP AND BOTTOM
11. 3/8"ø THREADED ROD THROUGH SUPPORT MEMBER WITH NUT AND WASHER EA END
12. 2"x3"x1/4" x 1-5/8" WIDE GALVANIZED STEEL ANGLE, B-LINE MODEL B154 OR EQUAL
13. CABLE THIMBLE AND CABLE CLIPS



VIEW A-A



AT FRAMING MEMBERS

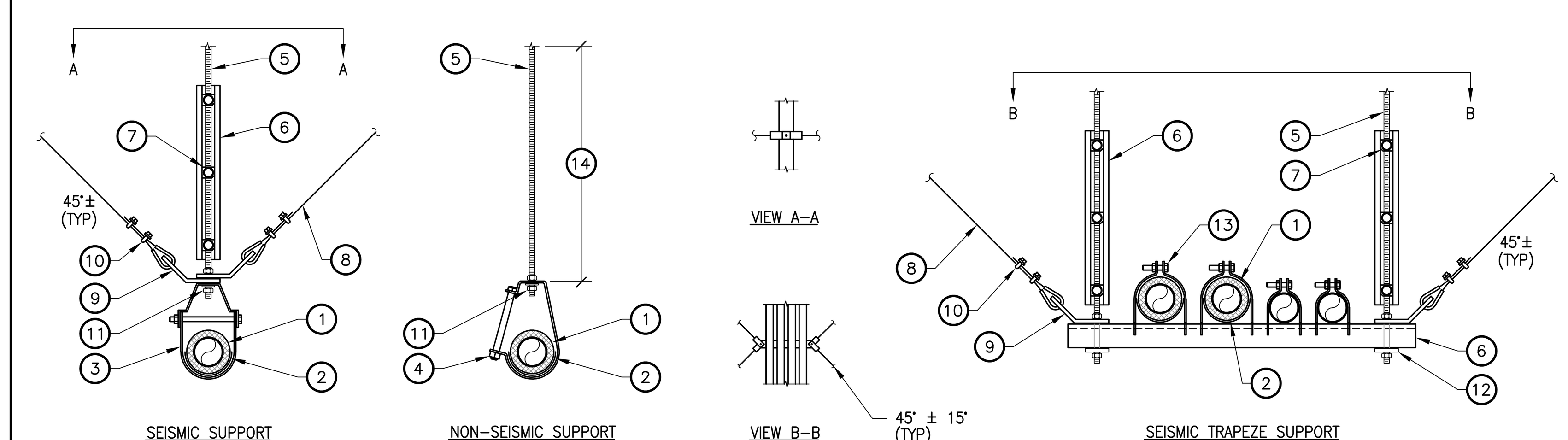
BETWEEN FRAMING MEMBERS

HANGER UPPER ATTACHMENTS (WOOD) | NTS | 1

1. PIPE, SEE PLAN FOR SIZE AND ROUTING
2. PIPE INSULATION WHERE APPLICABLE, SEE SPECIFICATIONS. PROVIDE INSULATION PROTECTION SADDLE, MIN. 12" LONG, B-LINE B3151 OR EQUAL. MAY BE SUBSTITUTED FOR PRE-INSULATED CALCIUM SILICATE SHIELD SUPPORT, B-LINE B338 OR EQUAL.
3. STANDARD CLEVIS PIPE HANGER, COATED OR PLATED TO ISOLATE HANGER FROM DISSIMILAR METAL PIPING, B-LINE B3100 OR EQUAL
4. ADJUSTABLE 'J' PIPE HANGER, COATED OR PLATED TO ISOLATE HANGER FROM DISSIMILAR METAL PIPING, B-LINE B3690 OR EQUAL
5. 3/8"ø THREADED ROD, B-LINE ATR OR EQUAL
6. 1-5/8"x1-5/8"x12 GA UNISTRUT CHANNEL, B-LINE B22 OR EQUAL
7. ROD STIFFENER, B-LINE MODEL 98B OR EQUAL, MIN. 1" FROM TOP AND BOTTOM OF UNISTRUT AND MAX. 28" O.C., TORQUE TO 10 FT-LBS
8. 3/32"ø PRE-STRETCHED GALVANIZED AIRCRAFT CABLE, 7x19 STRAND CORE
9. 2"x3"x1/4" X 1-5/8" WIDE GALVANIZED STEEL ANGLE, B-LINE MODEL B154 OR EQUAL
10. CABLE THIMBLE AND CABLE CLIPS
11. NUT AND WASHER, TOP AND BOTTOM
12. NUT, TOP AND BOTTOM WITH UNISTRUT SQUARE WASHER, B-LINE MODEL B201ZN OR EQUAL
13. PIPE CLAMP, B-LINE SERIES B2000 OR EQUAL
14. LENGTH FROM PIPE SUPPORT POINT TO THE CONNECTION AT THE SUPPORTING STRUCTURE NOT TO EXCEED 12".

NOTES:

A. HANGER SPACING PER CPC TABLE 313.3.
B. SEISMIC BRACING SPACING NOT TO EXCEED 40FT O.C. AND 2FT FROM CHANGES IN DIRECTION.
C. SEISMIC BRACING IS NOT REQUIRED FOR THE FOLLOWING CONDITIONS PER CBC 1617A.1.26 AND ASCE 7, SECTION 13.6.7.3 (EXCEPTION 2):
   - C.A. PIPING CONTAINING HAZARDOUS CONTENTS (EX: NATURAL GAS, PROPANE, MEDICAL GASES) WITH AN Ip>1.0 WHERE:
     - C.A.A. PIPE SIZE IS 1" OR LESS, AND
     - C.A.B. PIPE IS SUPPORTED BY INDIVIDUAL HANGER NOT EXCEEDING 12", AND
     - C.A.C. TOTAL WEIGHT SUPPORTED BY INDIVIDUAL HANGER IS 50 POUNDS OR LESS.
   - C.B. ALL OTHER PIPING NOT CONTAINING HAZARDOUS CONTENTS WITH AN Ip=1.0 WHERE:
     - C.A.A. PIPE SIZE IS 3" OR LESS, AND
     - C.A.B. PIPE IS SUPPORTED BY INDIVIDUAL HANGER NOT EXCEEDING 12", AND
     - C.A.C. TOTAL WEIGHT SUPPORTED BY INDIVIDUAL HANGER IS 50 POUNDS OR LESS.
D. PROVIDE ROD STIFFENERS ONLY WHERE ROD LENGTH FROM SEISMIC BRACING TO UPPER ATTACHMENT EXCEEDS 18".



SEISMIC SUPPORT

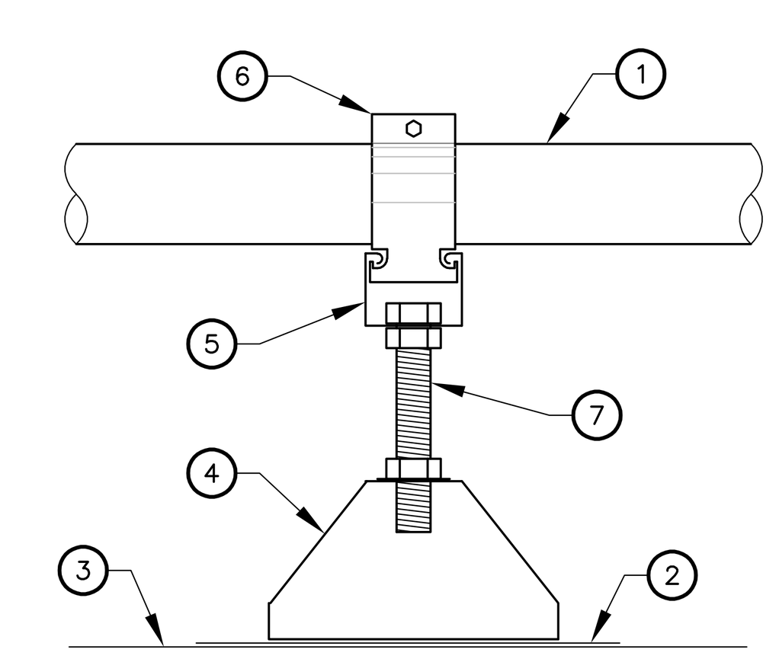
NON-SEISMIC SUPPORT

SEISMIC TRAPEZE SUPPORT

PIPE HANGER DETAIL | NTS | 2

1. PIPING ON ROOF.
2. ROOFING SUPPORT PAD.
3. ROOFING MATERIAL.
4. MIRO INDUSTRIES ROOTOP PIPE SUPPORT OR EQUAL. WOOD BLOCKING NOT ACCEPTABLE.
5. 14 GA. GALVANIZED SLOTTED 1" CHANNEL.
6. PIPE CLASP WITH THRU-BOLT.
7. PROVIDE 1/2" ADJUSTABLE THREADED ROD RISERS WITH NUTS FOR SLOPED PIPING

NOTE:
1. PROVIDE PIPE SUPPORT AT CHANGEGS IN PIPE DIRECTION AND AT MAXIMUM SPACING OF 8FT.



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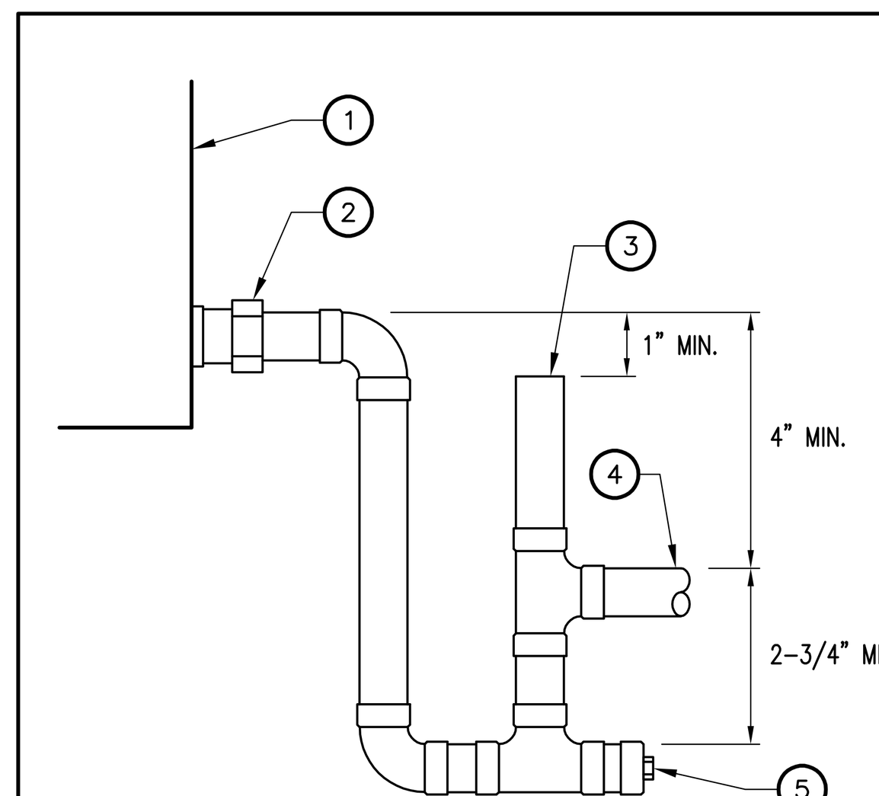
TYP. PIPE SUPPORT ON ROOF | NTS | 4



1. MECHANICAL EQUIPMENT
2. UNION
3. TRAP VENT, DO NOT CAP CLOSED
4. SLOPE CONDENSATE DRAIN AT 1/8" PER FOOT, MIN. SEE PLAN FOR SIZE AND ROUTING
5. CLEAN-OUT PLUG

CONDENSATE DRAIN CONNECTION | NTS | 3

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EQUIPMENT ANCHORAGE NOTES

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 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7–16 CHAPTERS 13, 26 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. 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:

A. 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.
B. 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 HUNG 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 WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING AND DUCTWORK DISTRIBUTION SYSTEM BRACING NOTES

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 2022 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., OSHPD 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 HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER 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 SPECIFIC NOTES AND DETAILS.

MP ☐ MD ☐ PP ☐ E ☐ — OPTION 2: SHALL COMPLY WITH THE APPLICABLE HCAI PRE–APPROVAL (OPM#) #0043–13 AS INCLUDED IN THESE DRAWINGS WITH PROJECT–SPECIFIC NOTES AND DETAILS.

MECHANICAL LEGEND

SYMBOL	ITEM	ABBR.
	SUPPLY AIR	SA
	RETURN AIR	RA
	EXHAUST AIR	EA
	OUTSIDE AIR	OSA
	TRANSFER AIR	TA
1 / M–1	DETAIL DESIGNATION; DETAIL NUMBER; SHEET NO. WHERE SHOWN	
AC / 1	EQUIPMENT DESIGNATION; UNIT ABBREVIATION; NUMBER	
A 10x10–3 120, FD	GRILLE DESIGNATION; NECK SIZE & BLOW (4 UON); FIRE DAMPER WHERE REQ'D; CFM	
	ACOUSTIC LINED DUCT	L
	TURNING VANES	TV
	DUCT FLEXIBLE CONNECTION	
	DUCT RISER	
	DUCT DROP	
	RECTANGULAR TO ROUND FITTING	
	VOLUME CONTROL DAMPER	VD
FD	FIRE DAMPER W/ ACCESS	FD
FSD	FIRE SMOKE DAMPER W/ ACCESS	FSD
	OPPOSED BLADE DAMPER	OBD
	BACKDRAFT DAMPER	BDD
M	MOTORIZED DAMPER	
T	THERMOSTAT @ +48" AFF	T–STAT
S	SENSOR @ +48" AFF	
TC	TIMECLOCK @ +48" AFF	
TCP	TEMPERATURE CONTROL PANEL	TCP
SD	DUCT SMOKE DETECTOR	SD
	PIPE RISER/DROP	(R)/(D)
	ABOVE FINISHED FLOOR	AFF
	UNLESS OTHERWISE NOTED	UON
	TYPICAL	(TYP)
	BOTTOM OF DUCT	BOD
	BOTTOM OF PIPE	BOP
	AUTOMATIC AIR VENT	AAV
	MANUAL AIR VENT	MAV
	TEMP. CONTROL CONTRACTOR	TCC
	TEMPERATURE CONTROL VALVE	TCV
	COMBUSTION AIR	CA
	NEW	(N)
	EXISTING	(E)
	POINT OF DIS/CONNECTION	POD/POC
	HEATING HOT WATER SUPPLY	HHWS
	HEATING HOT WATER RETURN	HHWR
	2–WAY CONTROL VALVE	
	BACKFLOW PREVENTER	BFP
	BALL VALVE	
	BUTTERFLY VALVE	
	CAP	
	CHECK VALVE	
	AUTOMATIC BALANCE VALVE (B&G ULTRA SET)	ABV
	AUTOMATIC BALANCE VALVE (B&G CIRCUIT SETTER)	CBV
	CONTROL VALVE (2–WAY)	
	FLEX CONNECTOR	FC
	FLOW ARROW	
	GATE VALVE	
	PRESSURE GAUGE	
	PLUG VALVE	
	REDUCER	
	STRAINER	
	TEMPERATURE SENSOR	TS
	TEST PORT (PETE'S PLUG)	PP
	THERMOMETER	
	TRIPLE DUTY VALVE	

MECHANICAL NOTES

A. THIS CONTRACTOR SHALL COMPLY WITH ALL CODES AND REGULATIONS IN EFFECT AT THE JOB SITE, INCLUDING, BUT NOT LIMITED TO:
- A.1. 2022 CALIFORNIA BUILDING CODE
- A.2. 2022 CALIFORNIA MECHANICAL CODE
- A.3. 2022 CALIFORNIA PLUMBING CODE
- A.4. 2022 CALIFORNIA ELECTRICAL CODE
- A.5. 2022 CALIFORNIA GREEN BUILDING STANDARDS
- A.6. 2022 CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS – TITLE 24
- A.7. NATIONAL FIRE PROTECTION ASSOCIATION
- A.8. CALIFORNIA STATE FIRE MARSHAL

B. DRAWINGS ARE SCHEMATIC AND DIAGRAMMATIC. DRAWINGS INDICATE THE GENERAL ARRANGEMENT OF EQUIPMENT, PIPING, AND OTHER MECHANICAL WORK. USE JUDGEMENT AND CARE TO INSTALL MECHANICAL WORK TO FIT THE JOB CONDITIONS WITHIN THE BUILDING CONSTRUCTION AND FINISHES, AND TO FUNCTION PROPERLY.

C. CONTRACTOR SHALL EXAMINE THE SITE, VERIFY DIMENSIONS AND LOCATIONS WITH DRAWINGS, CHECK UTILITY CONNECTION LOCATIONS, AND FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS AND LIMITATIONS. NO EXTRAS WILL BE ALLOWED BECAUSE OF THE CONTRACTOR'S MISUNDERSTANDING OF THE AMOUNT OF WORK INVOLVED OR HIS LACK OF KNOWLEDGE OF ANY SITE CONDITION WHICH MAY AFFECT HIS WORK. ANY APPARENT VARIANCE OF THE DRAWINGS OR SPECIFICATIONS FROM THE EXISTING CONDITIONS AT THE SITE SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.

D. THIS CONTRACTOR SHALL ORGANIZE HIS WORK SO THAT THE PROGRESS OF THE MECHANICAL WORK WILL CONFORM TO THE PROGRESS OF THE OTHER TRADES, AND SHALL COMPLETE THE ENTIRE INSTALLATION AS SOON AS THE CONDITIONS OF THE BUILDING WILL PERMIT. ANY COST RESULTING FROM DEFECTIVE OR ILL TIMED WORK PERFORMED UNDER THIS SECTION SHALL BE BORNE BY THIS CONTRACTOR.

E. THE WORK SHALL ALSO INCLUDE THE COMPLETION OF DETAILS OF MECHANICAL WORK NOT MENTIONED OR SHOWN WHICH ARE NECESSARY FOR THE SUCCESSFUL OPERATION OF MECHANICAL SYSTEMS DESCRIBED ON THE DRAWINGS OR REQUIRED BY THESE SPECIFICATIONS. FURNISH AND INSTALL ANY INCIDENTAL WORK NOT SHOWN OR SPECIFIED WHICH IS REQUIRED TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.

F. ALL MATERIALS AND EQUIPMENT INSTALLED UNDER THIS CONTRACT SHALL BE GUARANTEED FREE FROM ALL MECHANICAL, ELECTRICAL AND WORKMANSHIP DEFECTS FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ALL DAMAGED ITEMS INSTALLED UNDER THIS CONTRACT WITHOUT ADDITIONAL COST TO OWNER.

G. THE MECHANICAL CONTRACTOR SHALL PROVIDE THE OWNER COPIES OF OPERATION, MAINTENANCE AND PREVENTATIVE MAINTENANCE MANUALS FOR EACH MODEL AND TYPE OF MECHANICAL EQUIPMENT.

H. SUBMIT MANUFACTURER'S PRODUCT DATA INCLUDING NAME OF MANUFACTURER, TRADE NAME, MODEL, CAPACITY, OPTIONS, DIMENSIONS, WEIGHTS, INSTALLATION AND STARTUP DATA. EQUIPMENT PERFORMANCES SCHEDULED ARE MINIMUM CAPACITY, AIR FLOW, EFFICIENCY, ETC. REQUIRED. WEIGHTS AND ELECTRICAL DATA SCHEDULED IS MAXIMUM AVAILABLE OR ALLOWABLE.

I. ALL EQUIPMENT IS TO BE INSTALLED AS RECOMMENDED BY THE MANUFACTURER. USING ALL ACCESSORY EQUIPMENT AVAILABLE FROM THE MANUFACTURER FOR SUPPORTS, CONTROLS, ETC., TO MAKE A COMPLETE SYSTEM. ALL EQUIPMENT OR ACCESSORIES NEEDED AND NOT SHOWN OR SPECIFIED SHALL BE FURNISHED AND INSTALLED BY THIS CONTRACTOR. ADJUST THE EQUIPMENT FOR PROPER OPERATION, CHECK ALL CONTROLS AND VERIFY THAT ALL SAFETY DEVICES ARE FUNCTIONING PROPERLY.

J. PROVIDE ACCESS DOORS WHERE ACCESS THROUGH FLOORS, WALLS OR CEILINGS IS REQUIRED TO ACCESS MECHANICAL COMPONENTS OR OTHER SYSTEMS REQUIRING ACCESS FOR MAINTENANCE, TESTING OR OBSERVATION. COORDINATE THE EXACT TYPE AND LOCATION OF ACCESS DOORS TO PROVIDE PROPER ACCESS TO THE ITEM CONCEALED.

K. CHECK ALL SYSTEMS FOR LEAKS AND EXCESSIVE NOISE. CORRECT ANY DEFICIENCIES AS SOON AS DISCOVERED. OPERATE THE SYSTEMS AS A TEST AND DEMONSTRATE TO THE OWNER THAT THE SYSTEM IS FUNCTIONING PROPERLY.

L. INSTALL PIPING TO ALLOW FOR EXPANSION AND CONTRACTION WITHOUT STRESSING PIPE, JOINTS, OR CONNECTED EQUIPMENT.

M. MECHANICAL EQUIPMENT AND PIPING SHALL NOT BE WITHIN ELECTRICAL OR LOW VOLTAGE EQUIPMENT DEDICATED SPACE. NO PIPING WILL BE ALLOWED ABOVE EQUIPMENT'S DEDICATED SPACE.

N. ALL EXPOSED DUCTWORK OUTDOORS SHALL BE PREPARED WITH A PRIME COAT AND THEN PAINTED, COLOR BY ARCHITECT.

O. NEW BUILDINGS 10,000 SQUARE FEET AND ABOVE TO BE COMMISSIONED PER REQUIREMENTS LISTED IN CALGREEN SECTION 5.410.2.

P. ADHESIVES, SEALANTS AND CAULKS USED ON THE PROJECT SHALL MEET THE REQUIREMENTS LISTED IN CALGREEN SECTION 5.504.4.1.

Q. MINIMUM MERV–8 FILTERS TO BE USED FOR ANY PERMANENT HVAC SYSTEM IN OPERATION DURING CONSTRUCTION. REPLACE ALL FILTERS WITH MINIMUM MERV–13 PRIOR TO OCCUPANCY OR AT THE CONCLUSION OF CONSTRUCTION PER CALGREEN SECTION 5.504.1.

R. DURING CONSTRUCTION, ALL HVAC EQUIPMENT, DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENTS SHALL BE COVERED WITH TAPE, PLASTIC, OR SHEET METAL TO REDUCE THE AMOUNT OF DUST, WATER AND DEBRIS WHICH MAY ENTER THE SYSTEM PER CALGREEN SECTION 5.504.3.

S. ALL MECHANICAL VENTILATION SYSTEMS SHALL HAVE FILTRATION MEDIA FOR OUTSIDE AIR AND RETURN AIR WHICH PROVIDES MINIMUM MERV–13 FILTRATION. FILTRATION MEDIA SHALL BE REPLACED PRIOR TO OCCUPANCY AND SHALL BE CLEARLY LABELED WITH MERV RATING PER CALGREEN SECTION 5.5.04.5.3.

T. ALL REFRIGERANTS USED OR PROVIDED ON THIS PROJECT SHALL MEET THE OZONE DEPLETION AND GREENHOUSE GAS REDUCTION REQUIREMENTS PER CALGREEN SECTION 5.508.1.

MECHANICAL SHEET INDEX

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SHEET NAME:
MECHANICAL LEGEND, NOTES & SPECIFICATIONS

DSA SUBMITTAL

DATE: **09/18/2024** CLIENT PROJ NO: **3186071000**

SHEET:
M0.01

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THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS SHEET'S ORIGINAL PAGE SIZE

PACKAGED HEAT PUMP UNIT (DX) SCHEDULE

TYPE	MARK	NOM. TONS	DUCT DISCHARGE	ELECTRICAL					SUPPLY FAN				OSA	COOLING (DX – R454B)					HEATING (DX – R454B)				POWERED EXHAUST								FILTER TYPE	OPER. WEIGHT (LBS.)	MANUFACTURER	MODEL NUMBER
				VOLTS	PHASE	RLA	MCA	MOCP	MOTOR BHP	DRIVE	CFM	E.S.P. (IN WC)	MIN CFM	SEER/ EER	TOTAL CAP. (MBH)	SENS. CAP. (MBH)	E.A. DB/WB (°F)	AMBIENT DB (°F)	HSPF/ COP	TOTAL CAP. (MBH)	AUX. HEAT (KW)	AMBIENT DB (°F)	VOLTS	PHASE	RLA	MCA	MOCP	MOTOR HP	MANUFACTURER	MODEL NUMBER				
HP	3–1	4	HORIZ.	460	3	–	11.4	15	1.04	BELT	1600	1.0	SEE SCHED.	14.4/ 12.2	48.1	36.0	80/67	105	7.3/ 3.50	47.6	–	47	460	3	1.6	–	–	1.0	PROVENT	PEHCPRSS	MERV–13	1200	JCI	WYE05A4C1

NOTES:
1. SEE ELECTRICAL DRAWINGS FOR UNIT DISCONNECT SWITCH.
2. SEE ELECTRICAL DRAWINGS FOR CONVENIENCE OUTLET.
3. PROVIDE UNITS WITH AUTOMATIC REFRIGERANT LEAK DETECTION, MONITORING, ALARM AND SHUTDOWN.
4. PROVIDE UNITS WITH: LOW AMBIENT KIT, CRANKCASE HEATER, HINGED ACCESS DOORS, LOUVERED CONDENSER COIL HAIL GUARDS, AND ANTI–SHORT CYCLE COMPRESSOR DELAY TIMER.
5. PROVIDE MERV 13 FILTERS.
6. PROVIDE 14" TALL STANDARD FLAT ROOF CURB.
7. PROVIDE MODULATING ULTRA LOW–LEAK 100% ECONOMIZER WITH FAULT DETECTION & DIAGNOSTICS (FDD), ACTUATOR FOR CONNECTION TO CONTROLS SYSTEM, AND MODULATING CENTRIFUGAL 100% POWERED EXHAUST. POWERED EXHAUST TO BE SET TO MAINTAIN 0.03" W.C. SPACE PRESSURE. COORDINATE REQUIREMENTS WITH CONTROLS.
8. FIRE ALARM CONTRACTOR TO PROVIDE CSFM LISTED DUCT SMOKE DETECTOR IN THE SUPPLY AIR PLENUM TO SHUT–OFF UNIT UPON DETECTION OF SMOKE. INSTALL IN STRICT ACCORDANCE WITH CALIFORNIA MECHANICAL CODE, SECTION 608. COORDINATE WITH ELECTRICAL AND/OR FIRE ALARM SYSTEM CONTRACTOR FOR COMPATIBILITY AND INSTALLATION.
9. SEE SHEET M6.01 AND M6.02 FOR CONTROLS INFORMATION.

DEDICATED OUTSIDE AIR UNIT (DX) SCHEDULE

TYPE	MARK	NOM. TONS	DUCT DISCHARGE	ELECTRICAL					SUPPLY FAN				OSA	COOLING (DX – R454B)					HEATING (DX – R454B)			AUXILIARY HEATING (ELECT)						FILTER TYPE	OPER. WEIGHT (LBS.)	MANUFACTURER	MODEL NUMBER
				VOLTS	PHASE	RLA	MCA	MOCP	MOTOR BHP	DRIVE	CFM	E.S.P. (IN WC)	MIN CFM	SEER/ EER	TOTAL CAP. (MBH)	SENS. CAP. (MBH)	E.A. DB/WB (°F)	AMBIENT DB (°F)	HSPF/ COP	TOTAL CAP. (MBH)	AMBIENT DB (°F)	INPUT (KW)	OUTPUT (KW)	VOLTS	RLA	MCA	MOCP				
MAU	3–1	–	HORIZ.	460	3	–	79.7	90	10.0	DIRECT	6056	1.0	SEE SCHED.	–/ 14.9	352.9	307.1	97/69	97	–/ 3.5	204.6	40	90	78	460	108.3	135.4	150	MERV–13	3400	CAPTIVEAIRE	CASRTU3–E904–24–30T

NOTES:
1. SEE ELECTRICAL DRAWINGS FOR UNIT DISCONNECT SWITCHES. PROVIDE SEPARATE POWER CONNECTIONS TO MAIN UNIT AND SUPPLEMENTAL ELECTRIC HEATER.
2. SEE ELECTRICAL DRAWINGS FOR CONVENIENCE OUTLET.
3. PROVIDE UNIT WITH AUTOMATIC REFRIGERANT LEAK DETECTION, MONITORING AND ALARM, INVERTER SCROLL COMPRESSOR, HOT GAS REHEAT, AND SUPPLY FAN VFD.
4. PROVIDE MERV 13 FILTERS.
5. PROVIDE 20" HIGH FACTORY ROOF CURB.
6. FIRE ALARM CONTRACTOR TO PROVIDE CSFM LISTED DUCT SMOKE DETECTOR IN THE SUPPLY AIR PLENUM TO SHUT–OFF UNIT UPON DETECTION OF SMOKE. INSTALL IN STRICT ACCORDANCE WITH CALIFORNIA MECHANICAL CODE, SECTION 608. COORDINATE WITH ELECTRICAL AND/OR FIRE ALARM SYSTEM CONTRACTOR FOR COMPATIBILITY AND INSTALLATION.
7. SEE M6.01, M6.02 AND FOOD SERVICE DRAWINGS FOR CONTROL REQUIREMENTS. UNIT TO BE INTERLOCKED WITH KITCHEN EXHAUST FANS AND KITCHEN EXHAUST HOODS FOR VARIABLE FLOW DEMAND CONTROL. BOTH HOODS, BOTH FANS AND DEDICATED OUTSIDE AIR UNIT TO OPERATE AS ONE SYSTEM.

EXHAUST FAN SCHEDULE

TYPE	MARK	TYPE	MOUNTING	ELECTRICAL					EXHAUST FAN				SONES	CONTROL	OPER. WEIGHT (LBS.)	MANUFACTURER	MODEL NUMBER
				VOLTS	PHASE	RLA	MCA	MOCP	MOTOR BHP/ WATTS	DRIVE	CFM	E.S.P. (IN WC)					
KEF	3–1	CENTRIFUGAL	ROOF	460	3	3.8	–	–	2.0/–	DIRECT	3028	1.25	17.1	KITCHEN HOODS	275	CAPTIVEAIRE	DU200HFA
KEF	3–2	CENTRIFUGAL	ROOF	460	3	3.8	–	–	2.0/–	DIRECT	3028	1.25	17.1	KITCHEN HOODS	275	CAPTIVEAIRE	DU200HFA
REF	3–1	CENTRIFUGAL	ROOF	115	1	1.38	2	15	0.1/–	DIRECT	600	0.3	7.3	WARE WASHER	50	GREENHECK	G–090–VG

NOTES:
1. SEE ELECTRICAL DRAWINGS FOR DISCONNECT SWITCH.
2. PROVIDE MOTOR THERMAL OVERLOAD PROTECTION
3. PROVIDE WITH PRE–WIRED FAN SPEED CONTROLLER.
4. FOR KITCHEN EXHAUST FANS, PROVIDE FACTORY ROOF CURB AND VENTED CURB EXTENSION, HINGED CURB CAP, GREASE THROUGH AND CLEAN–OUT PORT. FANS TO BE UL–762 LISTED.
5. FANS TO BE AMCA LICENSED FOR SOUND AND AIR PERFORMANCE
6. SEE FOOD SERVICE DRAWINGS FOR KITCHEN EXHAUST CONTROL REQUIREMENTS. KITCHEN EXHAUST FANS TO BE INTERLOCKED WITH KITCHEN HOODS AND DEDICATED OUTSIDE AIR UNIT FOR VARIABLE FLOW DEMAND CONTROL. BOTH HOODS, BOTH FANS AND DEDICATED OUTSIDE AIR UNIT TO OPERATE AS ONE SYSTEM.

OUTSIDE AIR SCHEDULE

SYSTEM NAME	MIN. OSA CFM	MAX. OSA CFM	DEMAND CONTROL VENT. (Y/N)
HP–3–1	200	–	N

* OSA TO BE PER TITLE 24, 2019 BUILDING ENERGY EFFICIENY STANDARDS, SECTION 120.1, REQUIREMENTS.

* DEMAND VENTILATION CONTROLS SHALL MAINTAIN CO2 CONCENTRATIONS LESS THAN OR EQUAL TO 600 PPM PLUS THE OUTDOOR AIR CO2 CONCENTRATIONS IN ALL ROOMS WITH CO2 SENSORS.

AIR DISTRIBUTION SCHEDULE

SYMBOL	TYPE	DESCRIPTION
C	SURFACE CEILING SUPPLY	STEEL MODULAR CORE SQUARE CEILING DIFFUSER WITH ADJUSTABLE DISCHARGE PATTERN. FINISH: COLOR BY ARCHITECT. FRAME: FLAT SURFACE. TITUS MCD.
D	SURFACE CEILING RETURN/ TRANSFER	STEEL LOUVERED RETURN GRILLE WITH HORIZONTAL BLADES AT 3/4" SPACING AND 35° DEFLECTION. FINISH: COLOR BY ARCHITECT. FRAME: FLAT SURFACE. TITUS 350RL.

NOTES:
1. REFER TO MECHANICAL PLANS FOR NECK SIZE, CFM, AIR DIFFUSION PATTER, AND FIRE DAMPER WHERE APPLICABLE.

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SHEET NAME:
MECHANICAL SCHEDULES

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DATE: **09/18/2024** CLIENT PROJ NO: **3186071000**

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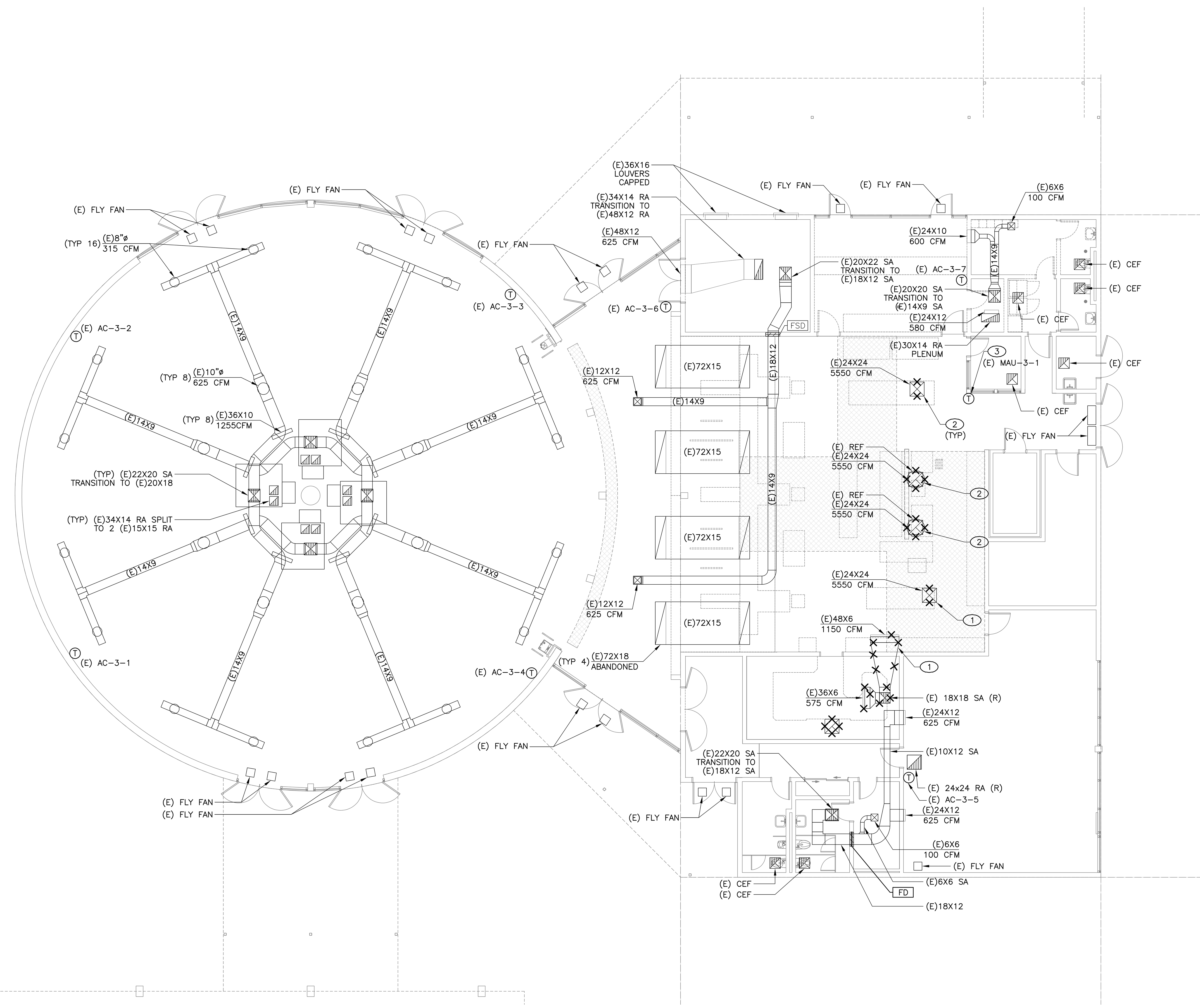
KEY NOTES

1. REMOVE EXISTING GRILLE(S) AND RELATED DUCTWORK SHOWN HATCHED.
2. REMOVE EXISTING KITCHEN HOOD, DUCTWORK, AND ALL RELATED APPURTENANCES.
3. REMOVE EXISTING MAKEUP AIR CONTROLS CONNECTED TO EXISTING JOHNSON CONTROLS EMS SYSTEM. SEE NEW PLANS FOR NEW MAKEUP AIR UNIT AND CONTROLS.



MECHANICAL DEMOLITION FLOOR PLAN M1
1/8" = 1'-0"

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SHEET NAME:
MECHANICAL DEMOLITION FLOOR PLAN

DSA SUBMITTAL

DATE: 09/18/2024 CLIENT PROJ NO: 3186071000

SHEET:

MD2.01

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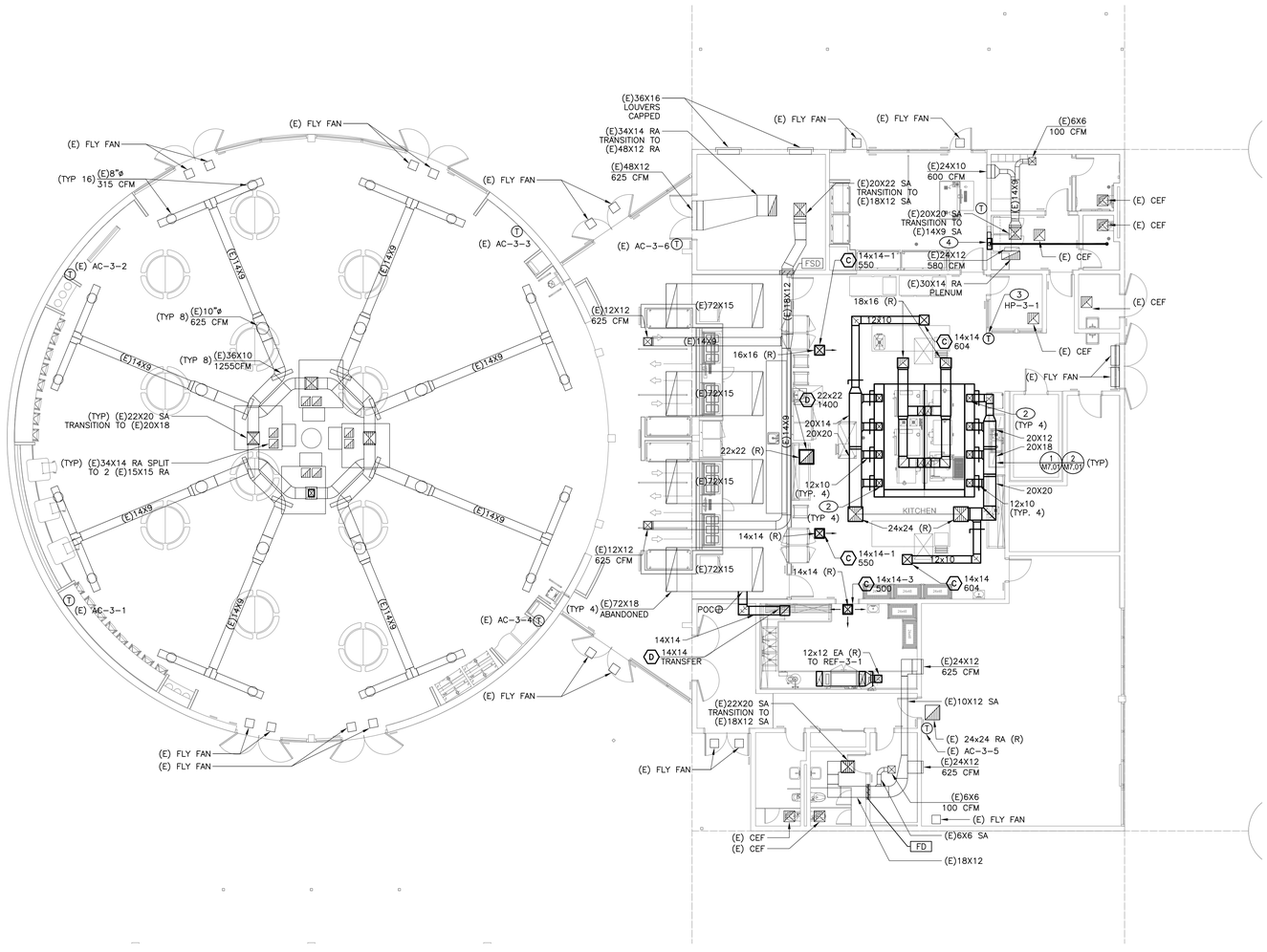
KEY NOTES

1. RE-BALANCE EXISTING OUTLET/INLET TO AIR QUANTITY SHOWN.
2. BALANCE SUPPLY AIR AT KITCHEN HOOD TO 606 CFM, EACH CONNECTION.
3. NEW JOHNSON CONTROLS TEMPERATURE SENSOR CONNECTION TO EXISTING EMS SYSTEM. SEE CONTROL DRAWINGS FOR INFORMATION.
4. PROVIDE "THE DRYER BOX" MODEL #425 DRYER BOX AND VENT DUCTWORK, INSTALL PER MANUFACTURER'S INSTRUCTIONS.



MECHANICAL 1ST FLOOR PLAN | M1

1/8" = 1'-0"

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SHEET NAME:
MECHANICAL FLOOR PLAN

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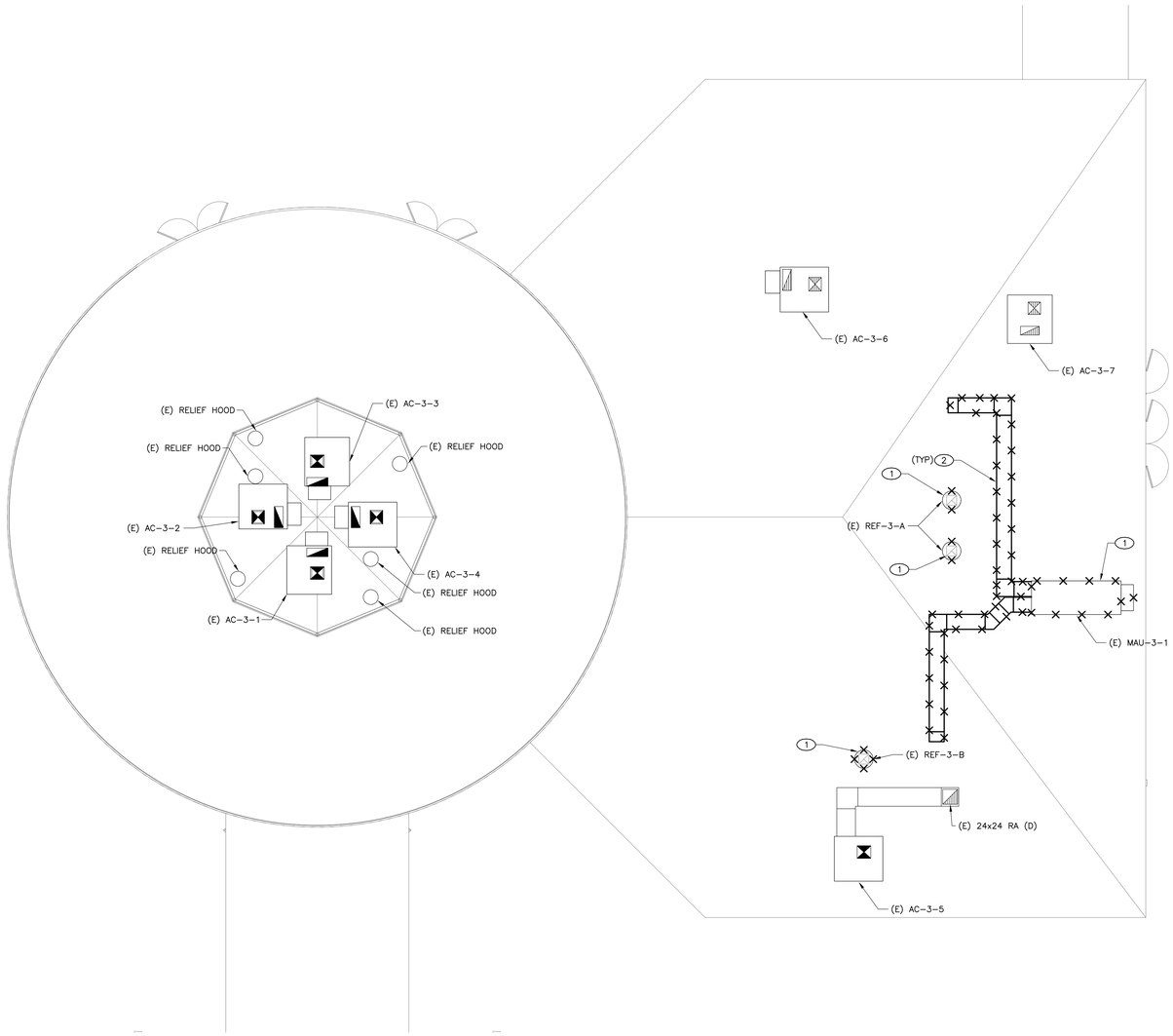
DATE: **09/18/2024** | CLIENT PROJ NO: **3186071000**

SHEET:

M2.01

KEY NOTES

1. REMOVE EXISTING MECHANICAL UNIT, CURB, CONTROLS AND RELATED APPURTENANCES SHOWN HATCHED.
2. REMOVE EXISTING DUCTWORK AND RELATED SUPPORTS SHOWN HATCHED.



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MECHANICAL DEMO ROOF PLAN | **M1** 1/8" = 1'-0"

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SHEET NAME:
MECHANICAL DEMOLITION ROOF PLAN

DSA SUBMITTAL

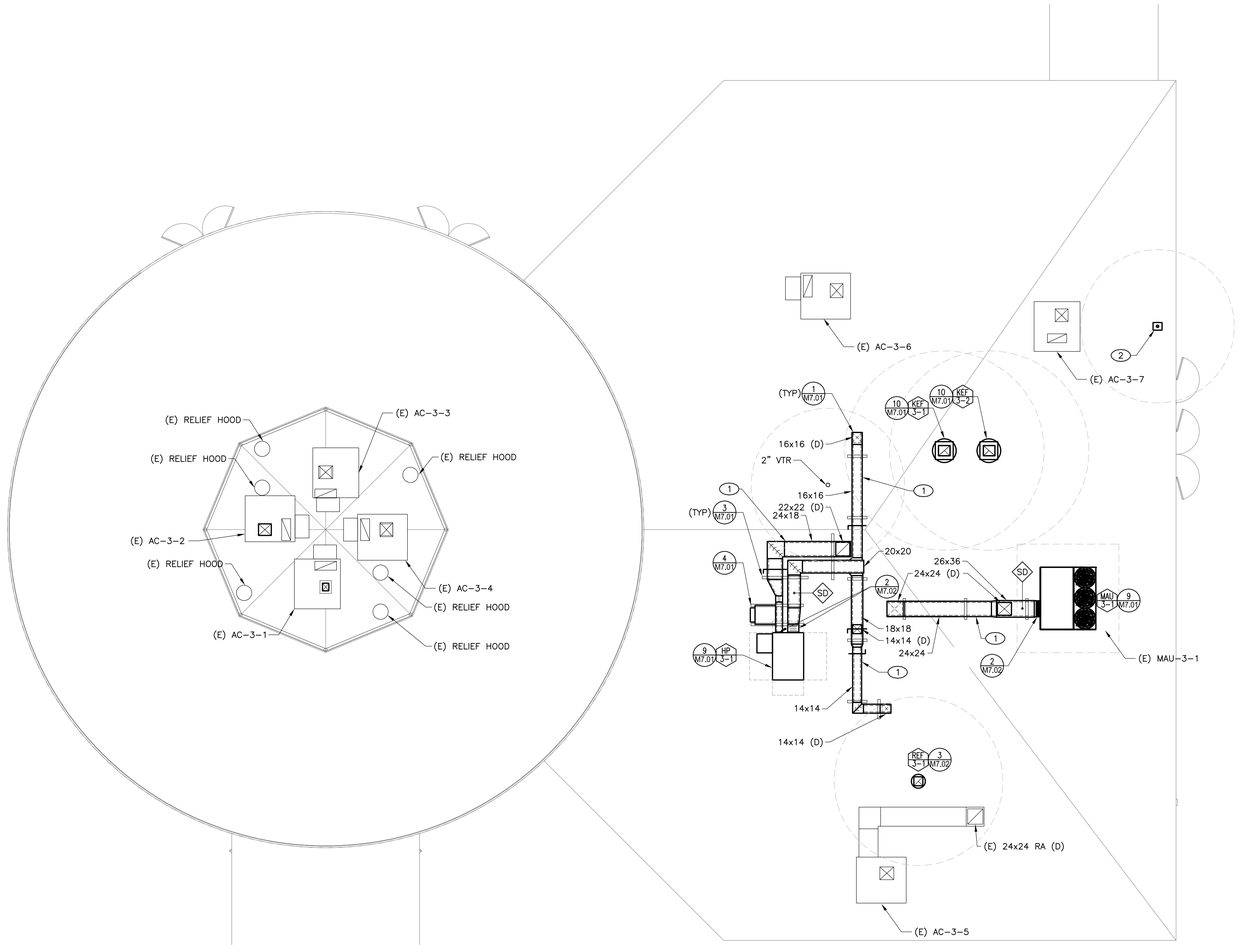
DATE: **09/18/2024** | CLIENT PROJ NO: **3186071000**

SHEET:

MD4.01

KEY NOTES

1. DUCT SIZE TAGGED ON PLANS INCLUDES 2" EXTERIOR INSULATION, TYP.
2. PROVIDE "THE DRYERJACK" MODEL #486 DRYER VENT TERMINATION BOX, INSTALL PER MANUFACTURER'S INSTRUCTIONS.



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MECHANICAL ROOF PLAN | **M1** 1/8" = 1'-0"

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MECHANICAL ROOF PLAN

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SHEET:

M4.01

DOAS/RTU FAN SCHEDULE – JOB#6728939

FAN INFORMATION											ELECTRICAL INFORMATION					COOLING INFORMATION											REHEAT INFORMATION					ELECTRIC HEAT INFORMATION							HEAT PUMP INFORMATION				NOTES
FAN UNIT NO	TAG	QTY	DOAS/RTU MODEL #	MANUFACTURER	BLOWER	RETURN AIR CFM	MAX OUTSIDE AIR CFM	TOTAL CFM	WEIGHT (LBS)	ESP	HP	PHASE	VOLT	MCA	MOCP	OUTSIDE AIR DB	OUTSIDE AIR WB	MIXED AIR DB	MIXED AIR WB	LEAVING AIR DB	LEAVING AIR WB	LEAVING AIR DP	CAPACITY TOTAL	CAPACITY SENS.	IEER	ISMRE	DISCHARGE DB	DISCHARGE WB	CAPACITY DESIRED	CAPACITY MAX	MOISTURE REMOVAL RATE	DSGN. KW'S	MAX. KW'S	VOLTS	AMPS	MCA	MOCP	TEMP RISE	ENTERING TEMP	MAX TEMP RISE	DISCHARGE TEMP	COP	
2		1	CASRTU3-E.904-24-30T	CAPTIVEAIRE	24MF-3-RTU	0	6056	6056	3071	1.000	10.00	3	460	79.7A	90A	97.0°F	69.0°F	97.0°F	69.0°F	48.1°F	48.1°F	48.2°F	352.9 MBH	307.1 MBH	14.9	6.0	70.0°F	57.3°F	150.4 MBH	204.6 MBH	42.2 LBS/HR	78	90	460	108.3	135.4	150	41 °F	40.0°F	27.0°F	67.0°F	3.5	1,2,3,4,5,6,7,8,9,10,11,12,13,14

NOTES:
1. INVERTER SCROLL COMPRESSOR WITH INTEGRATED OIL SENSOR. DIGITAL OR STAGED SCROLL NOT AN APPROVED EQUAL
2. DIRECT DRIVE PLENUM BLOWER. BELT DRIVEN BLOWERS ARE NOT ACCEPTABLE
3. INTEGRATED MONITORING VIA CELLULAR CONNECTION BY MANUFACTURER
4. REFRIGERATION PRESSURE MONITORING ON HIGH AND LOW PRESSURE SIDE OF SYSTEM INCLUDED THROUGH DIGITAL INTERFACE
5. EC MOTOR CONDENSING FANS
6. ELECTRONIC EXPANSION VALVE. TXV NOT ACCEPTABLE
7. SUCTION LINE ACCUMULATOR
8. FACTORY COMMISSIONING WITH 5 YEAR PARTS WARRANTY
9. AVERAGING INTAKE, EVAP AND DISCHARGE TEMPERATURE SENSORS (DISCHARGE SENSOR TO BE FACTORY MOUNTED WITHIN UNIT)
10. 2" EXTERIOR DUAL-WALL CONSTRUCTION W/ R-13 INSULATION-MINIMUM 20GA EXTERIOR W/ 14GA BASE
11. SUPPLY CFM MONITORING INTEGRAL TO UNIT WITH CFM MEASUREMENT INCLUDED THROUGH DIGITAL INTERFACE
12. FULLY MODULATING HOT GAS REHEAT
13. DOWN DISCHARGE/DOWN RETURN
14. SEPARATE POWER CONNECTION FOR MAIN UNIT & ELECTRIC HEATER

FAN OPTIONS

FAN UNIT NO	TAG	QTY	DESCRIPTION
1		1	GREASE BOX
		1	LOAD REACTOR MOUNTED IN FAN
		1	2 YEAR PARTS WARRANTY
2		1	RTU TOTAL CFM MONITORING
		1	INTAKE FIRESTAT SET TO 135°F
		1	FREEZESTAT
		1	DISCHARGE FIRESTAT SET TO 240°F
		1	SEPARATE ELECTRIC HEAT CONNECTION - RTU. 750VA TRANSFORMER USED FOR CONTROLS. TWO PRIMARY CONNECTIONS REQUIRED FOR RTU WITH ELECTRIC HEAT. IF A NON-DCV PREWIRE CONTROLS THIS UNIT, THE #28, #47, "MA", OR "E2" PREWIRE OPTION MUST BE SELECTED. DO NOT PROVIDE SUPPLY STARTER IN PREWIRE
		1	CASLINK BUILDING MONITORING SYSTEM - INTERNET OR CELLULAR CONNECTION REQUIRED
		1	2" MERV 13 FILTERS FOR RTU3 (QTY. 4)
		1	2" MERV 8 FILTERS FOR RTU3 (QTY. 4)
		1	OVERHEAT STAT
		1	RTU3 DOWN DISCHARGE ELECTRIC HEAT, 90-100KW
		1	30 TON MODULATING COOLING OPTION WITH HEAT PUMP, 460/480V. SIZE 3 CABINET, R410A REFRIGERANT, VARIABLE SPEED COMPRESSOR, ECM CONDENSING FANS
		1	COMMERCIAL SMOKE DETECTOR/ALARM INTERLOCK - ALARM SUPPLIED BY OTHERS
		1	SUPPLEMENTAL BACK UP HEAT
		1	OCCUPIED SCHEDULING
		1	CLOGGED FILTER SWITCH - NOTIFICATION ON HMI
		1	RTU3 DOWN RETURN
		1	RTU3 CURB DUCT HANGER
		1	30 TON MODULATING REHEAT OPTION WITH HEAT PUMP FOR SIZE 3 CABINET - SPACE DEWPOINT CONTROL
		1	UNIT MOUNTED VFD CONFIGURED FOR DCV
		1	LOAD REACTOR MOUNTED IN FAN
		1	5 YEAR ENTIRE UNIT PARTS WARRANTY, 10 YEAR ENTIRE UNIT PARTS WARRANTY WITH REMOTE MONITORING AND CAPTIVEAIRE SERVICE CONTRACT

FAN ACCESSORIES

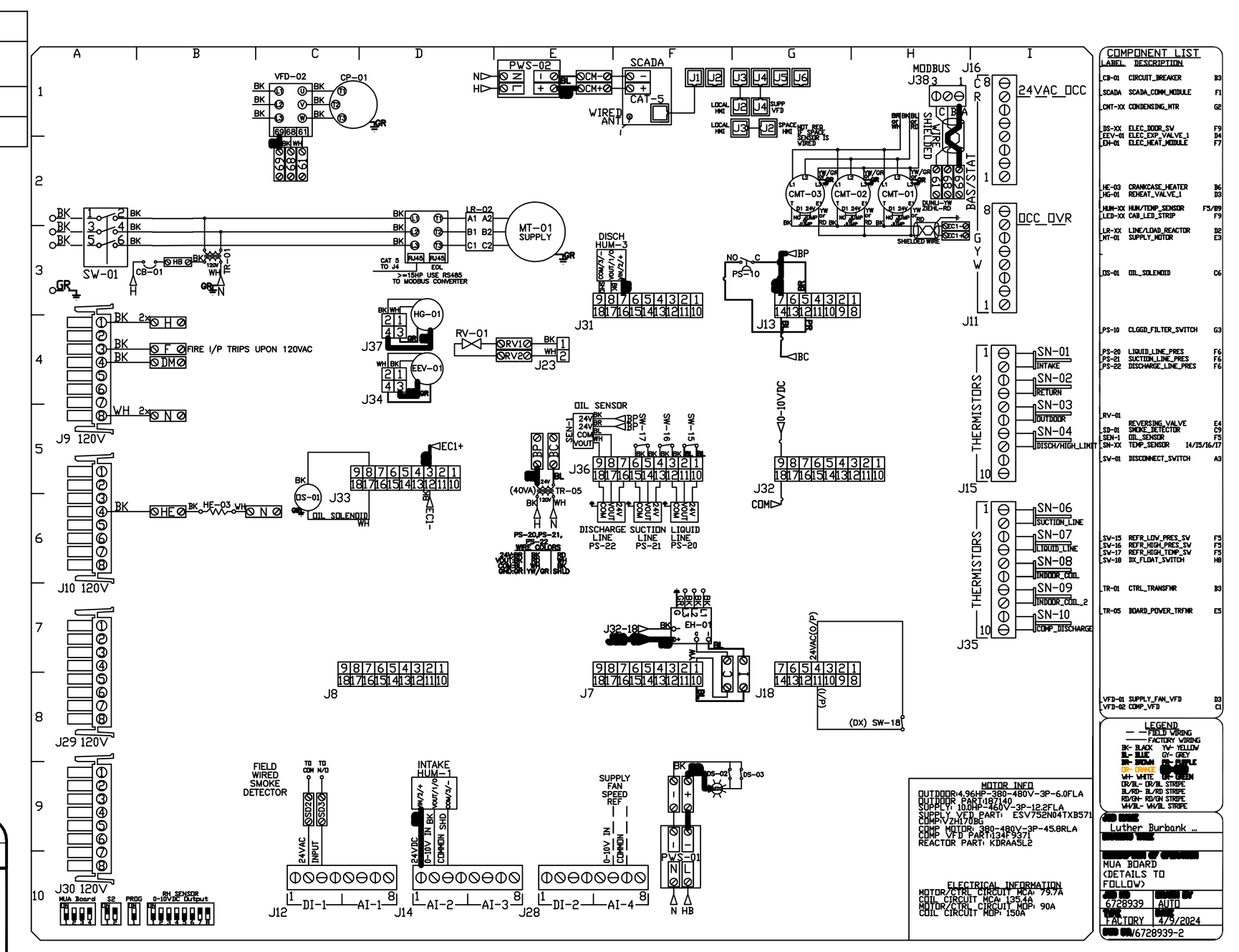
FAN UNIT NO	TAG	EXHAUST			SUPPLY			
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT
1		YES						

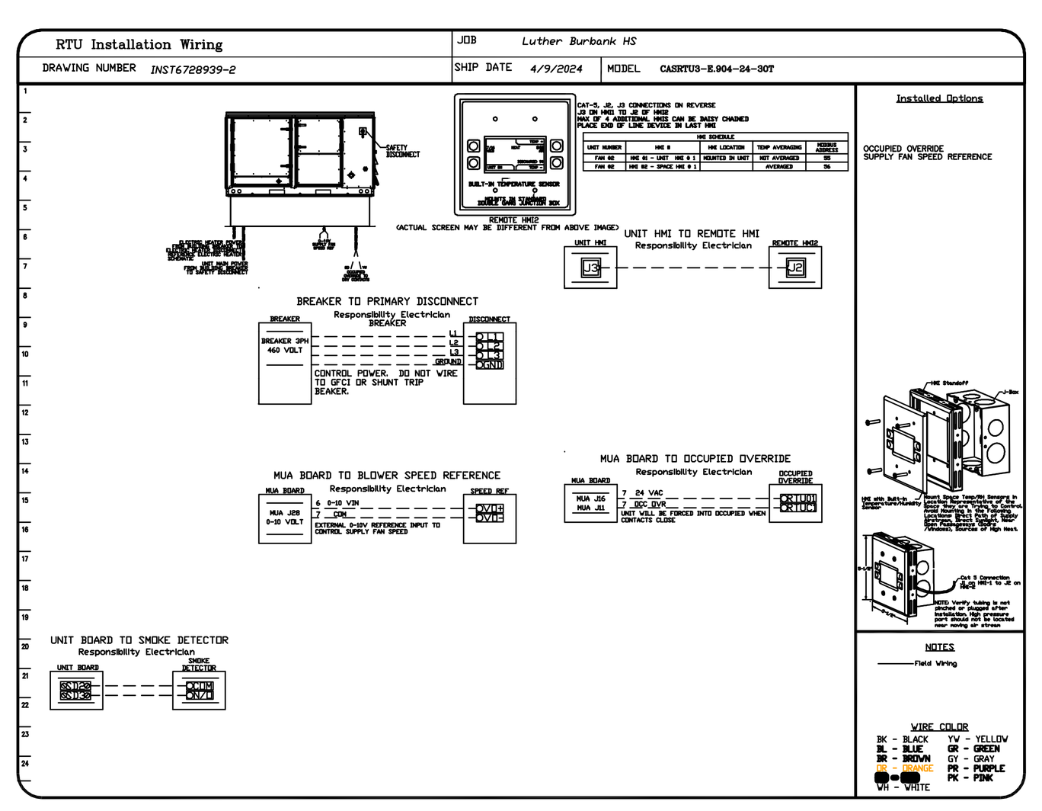
CURB ASSEMBLIES

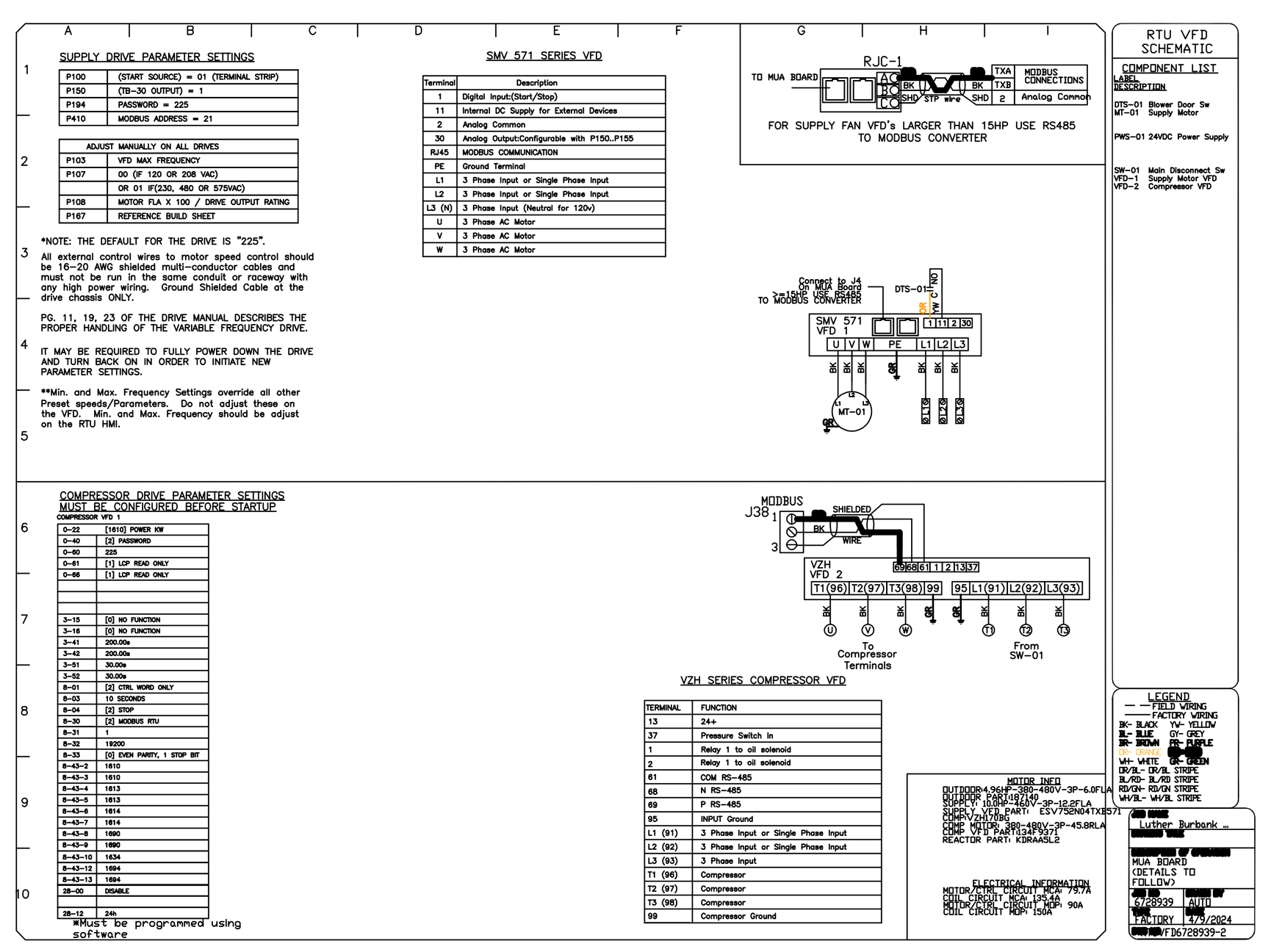
NO	ON FAN	WEIGHT	ITEM	SIZE
1	# 1	53 LBS	CURB	38.500"W X 38.500"L X 20.000"H VENTED.
2	# 2	130 LBS	CURB	59.500"W X 91.000"L X 20.000"H INSULATED.

HMI SCHEDULE				
UNIT NUMBER	HMI #	HMI LOCATION	TEMP AVERAGING	MODBUS ADDRESS
FAN #2	HMI #1 - UNIT HMI # 1	MOUNTED IN UNIT	NOT AVERAGED	55
FAN #2	HMI #2 - SPACE HMI # 1		AVERAGED	56

DOAS unit needs a HMI mounted in the space to measure temperature and humitidy. Cat5 cable needs to be run between HMI and DOAS unit. 4 low voltage wires will need to be run between DOAS unit and DCV on the hood. 2 give it and occupied/unoccupied signal and 2 give it a 0-10V speed reference



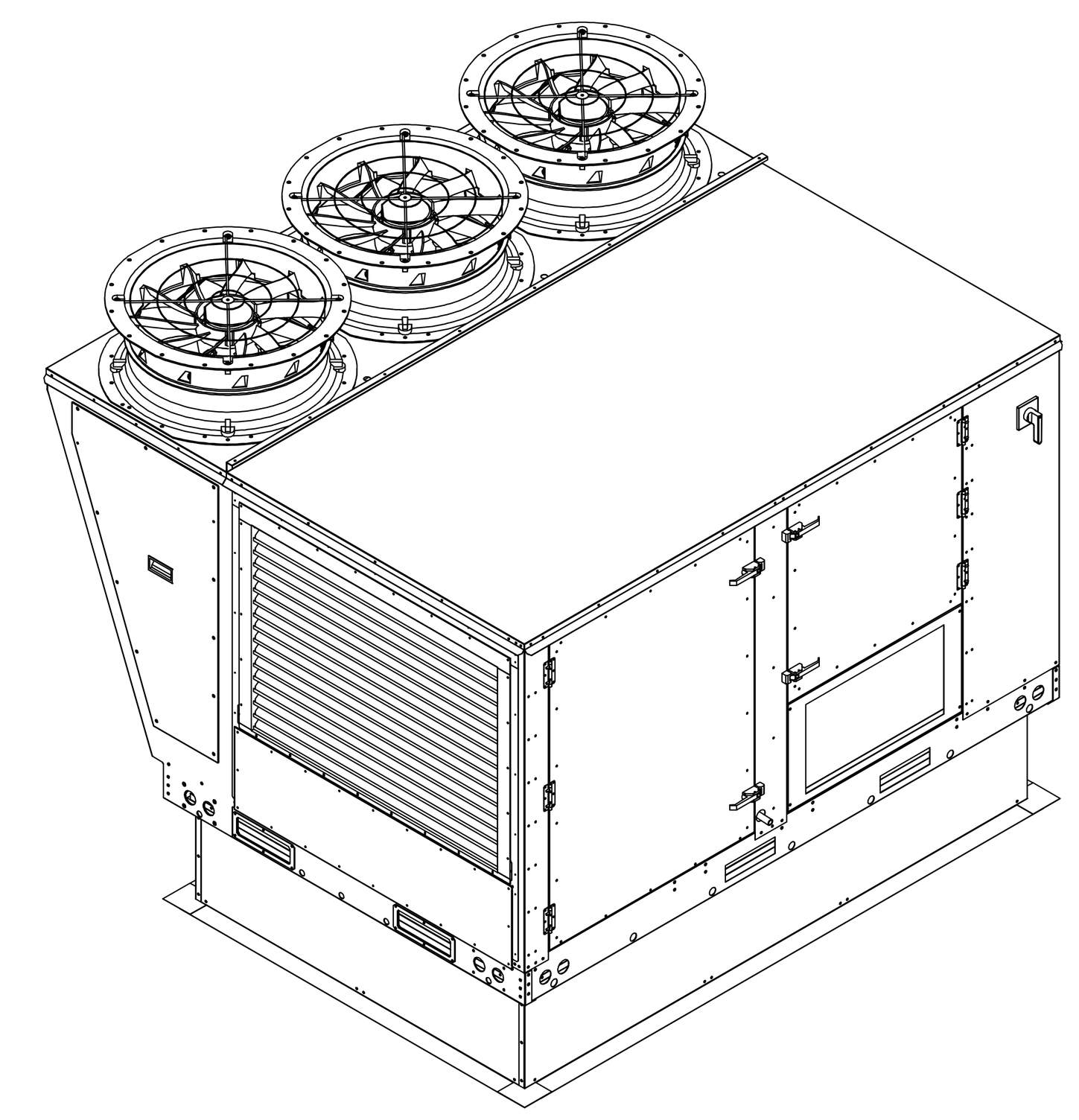


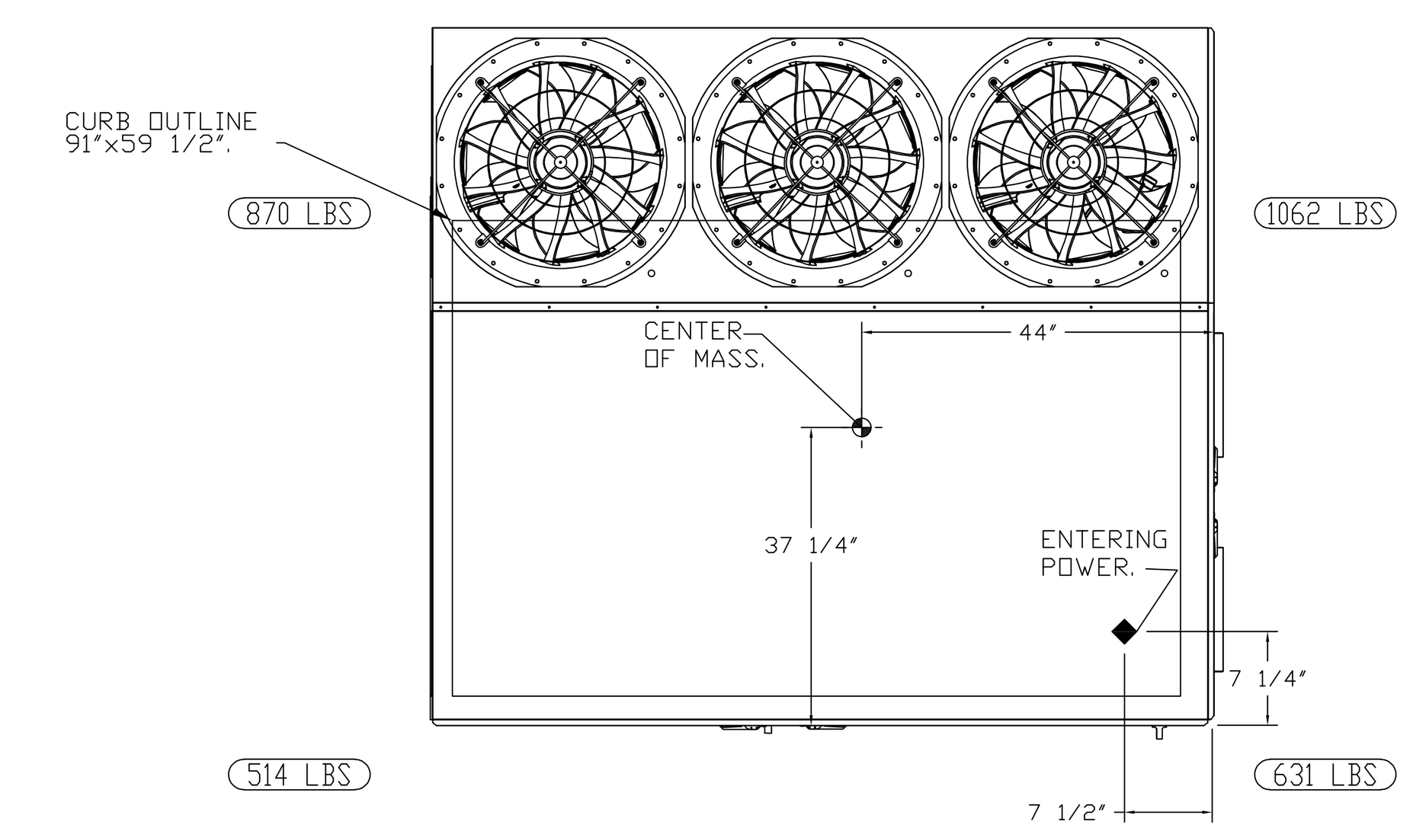


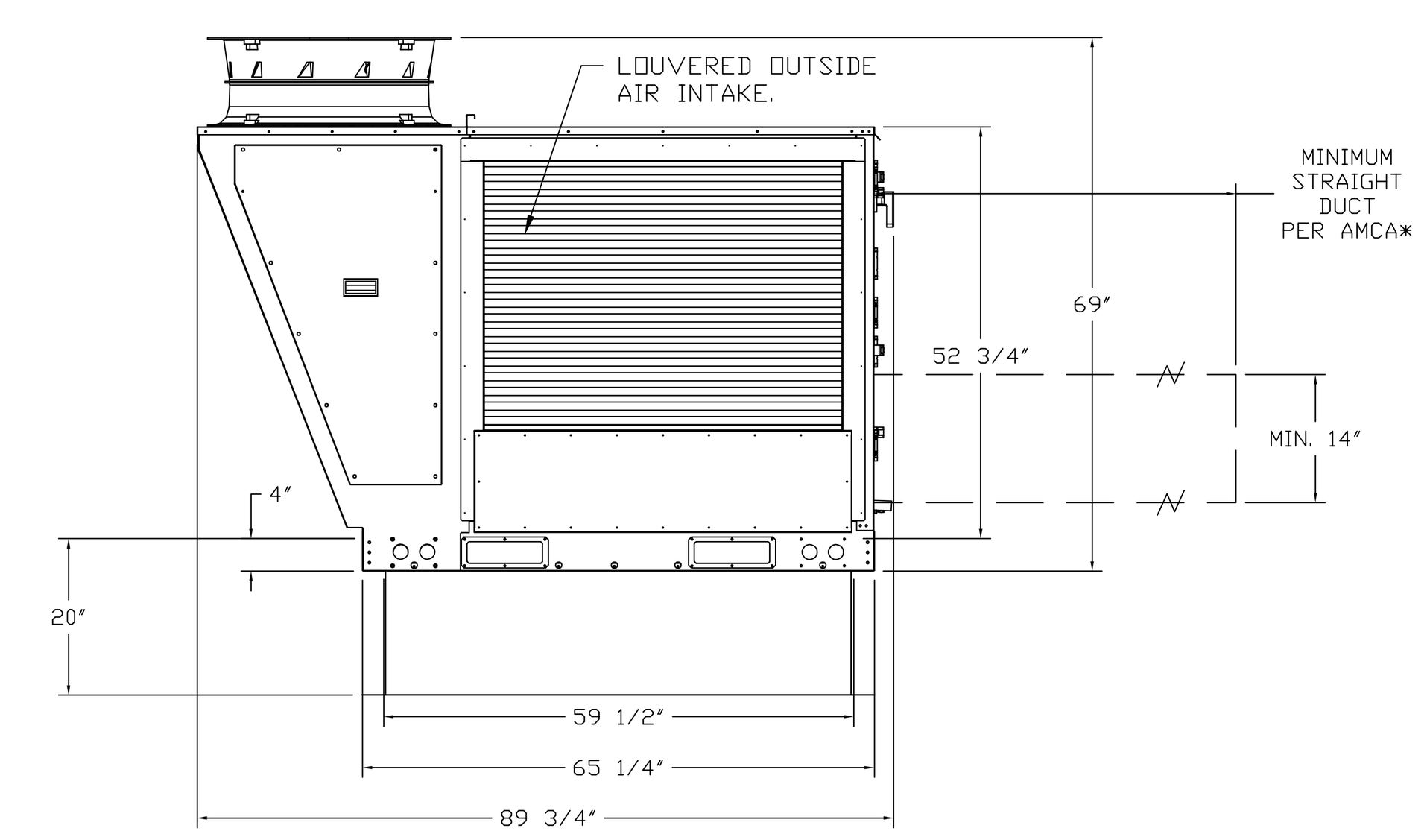
FAN #3 CASRTU3-E.904-24MF-30T-DOAS - HEATER

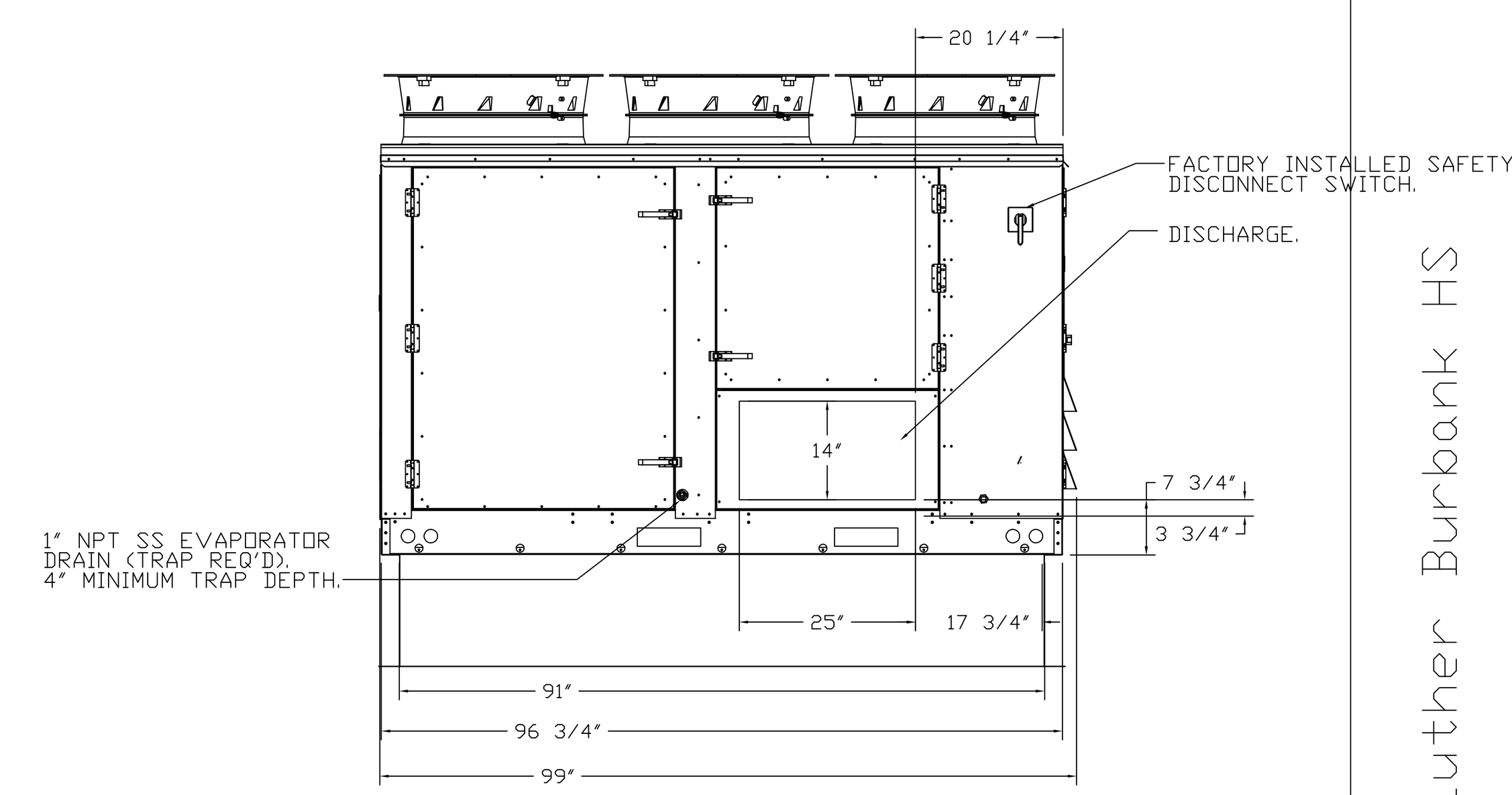
NOTES:
1. DO NOT OBSTRUCT OUTSIDE AIR INLET, OUTSIDE AIR COIL OR OUTSIDE AIR FAN.
2. (oval) DENOTES CORNER WEIGHT.
3. ROOF OPENING MUST BE 2" SMALLER THAN CURB DIMENSIONS IN BOTH DIRECTIONS.
4. CONNECTION FROM BREAKER TO UNITS SAFETY DISCONNECT SWITCH TO BE COPPER WIRE ONLY.

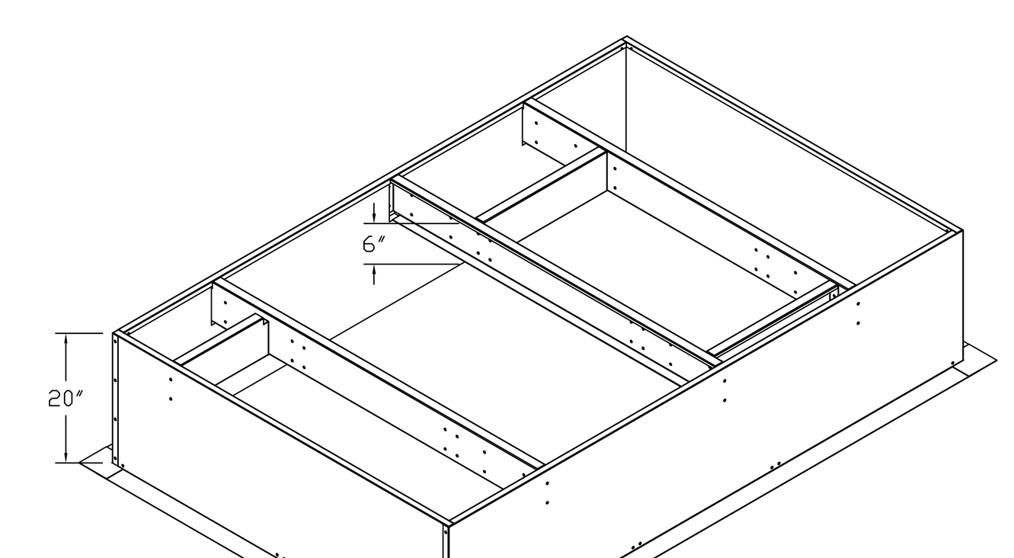
*NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS OUTLINED IN AMCA PUBLICATION 201. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THROAT, RADIUS BACK WITH TURNING VANES. FLEXIBLE DUCTWORK AND SQUARE THROAT/SQUARE BACK ELBOWS SHOULD NOT BE USED. ANY TRANSITION AND/OR TURNS IN THE DUCTWORK WILL CAUSE SYSTEM EFFECT. SYSTEM EFFECT WILL DRASTICALLY INCREASE STATIC PRESSURE AND REDUCE AIRFLOW. DO NOT RELY ON UNIT TO SUPPORT DUCT IN ANY WAY. FAILURE TO PROPERLY SIZE DUCTWORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT.
SUGGESTED STRAIGHT DUCT SIZE IS 25" x 14".

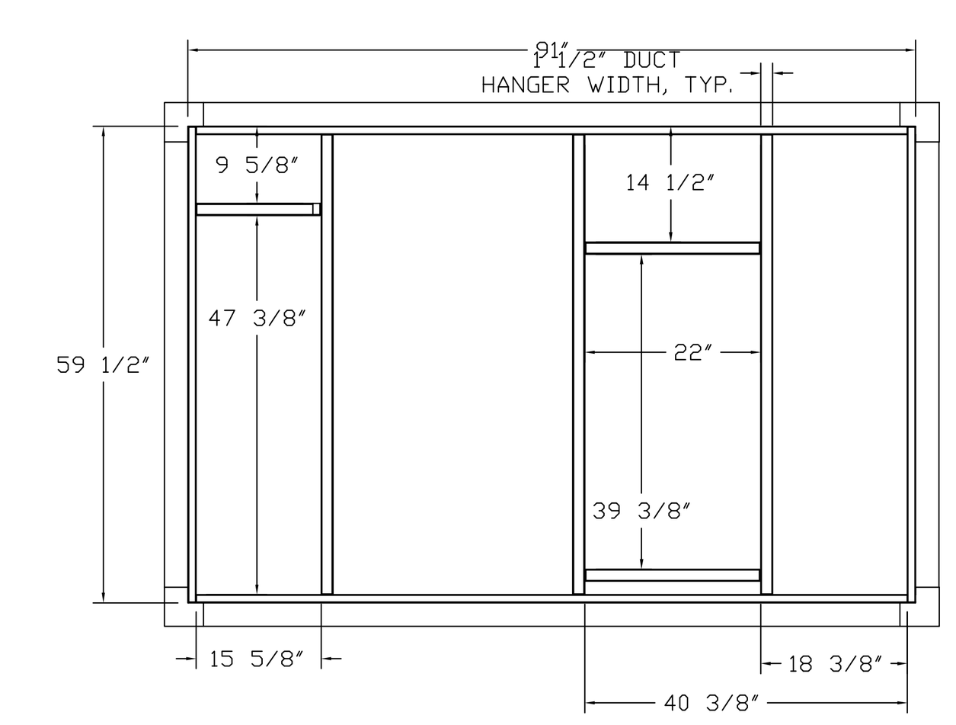












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PROJECT:
LUTHER BURBANK HIGH SCHOOL CAFETERIA MODERNIZATION

SHEET NAME:
KITCHEN EQUIPMENT DETAILS

DSA SUBMITTAL

DATE: 09/18/2024
CLIENT PROJ NO: 3186071000

SHEET:
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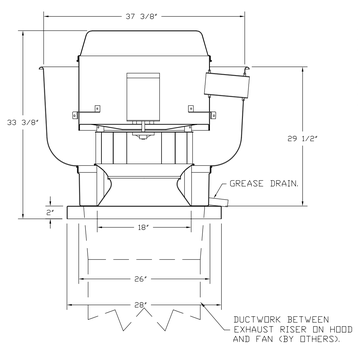
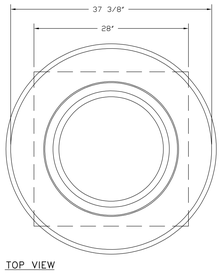
EXHAUST FAN INFORMATION – JOB#6728939

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SONES
1		1	DU200HFA	CAPTIVEAIRE	3028	1.250	1109	ODP,PREMIUM	2.000	1.4040	3	460	3.8	737 FPM	206	17.1
2		1	DU200HFA	CAPTIVEAIRE	3028	1.250	1109	ODP,PREMIUM	2.000	1.4040	3	460	3.8	737 FPM	206	17.1

FANS #1, #2 - DU200HFA EXHAUST FAN





TOP VIEW

FEATURES:

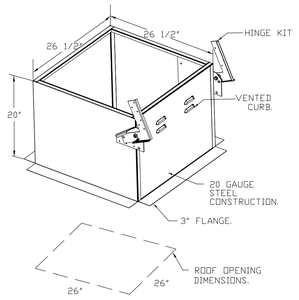
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL705 AND UL762 AND ULC-S645
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- HIGH HEAT OPERATION 300°F (149°C).
- GREASE CLASSIFICATION TESTING.
- NEMA 3R SAFETY DISCONNECT SWITCH.

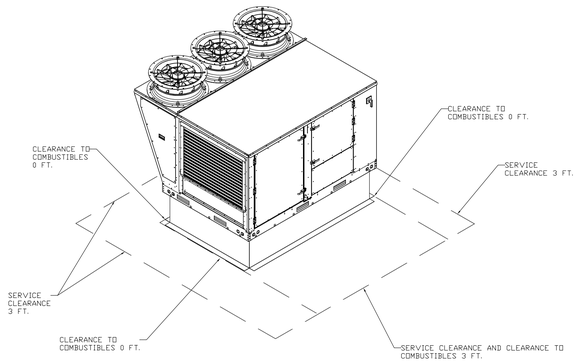
NORMAL TEMPERATURE TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

ABNORMAL FLARE-UP TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

OPTIONS

- GREASE BOX.
- EXHAUST FAN HEAT BAFFLE.
- LOAD REACTOR MOUNTED IN FAN.
- 2 YEAR PARTS WARRANTY.





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PROJECT:
LUTHER BURBANK HIGH SCHOOL CAFETERIA MODERNIZATION

SHEET NAME:
KITCHEN EQUIPMENT DETAILS

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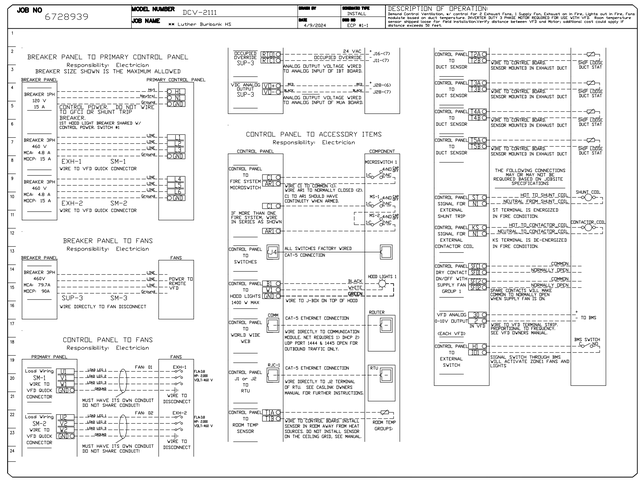
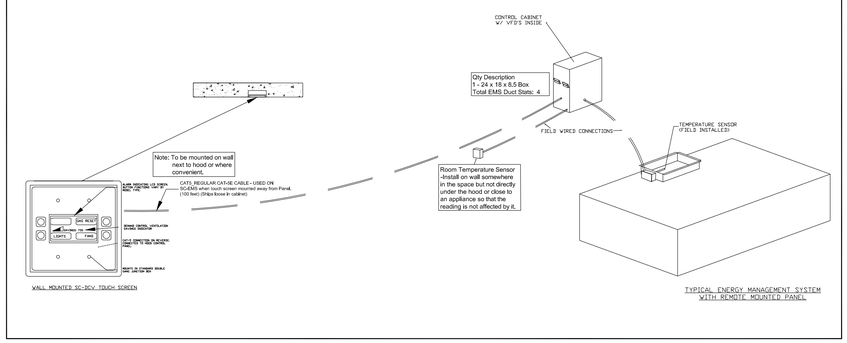
ELECTRICAL PACKAGE – JOB#6728939

NO	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED				
				LOCATION	QUANTITY		TYPE	Q	HP	VOLT	FLA
1		DCV-2111	WALL MOUNT IN SS BOX	SS WALL MOUNT BOX	1 LIGHT 1 FAN	SMART CONTROLS DCV	EXHAUST	3	2.000	460	3.8
							EXHAUST	3	2.000	460	3.8
							SUPPLY	3	10.000	460	12.2



If touchscreen display to be recess mounted



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PROJECT:

LUTHER BURBANK HIGH SCHOOL CAFETERIA MODERNIZATION

SHEET NAME:

KITCHEN EQUIPMENT DETAILS

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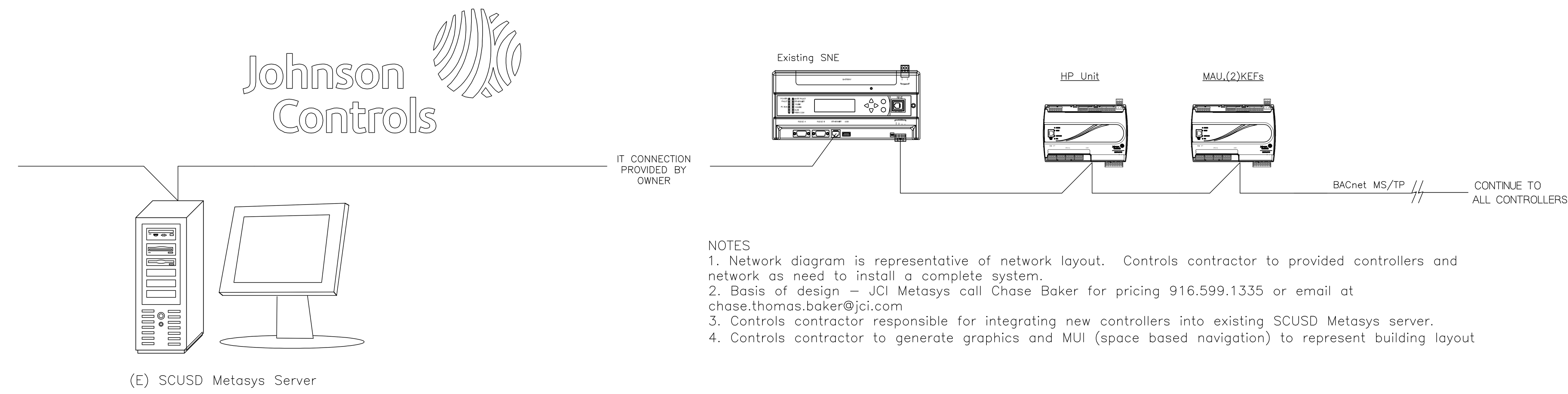
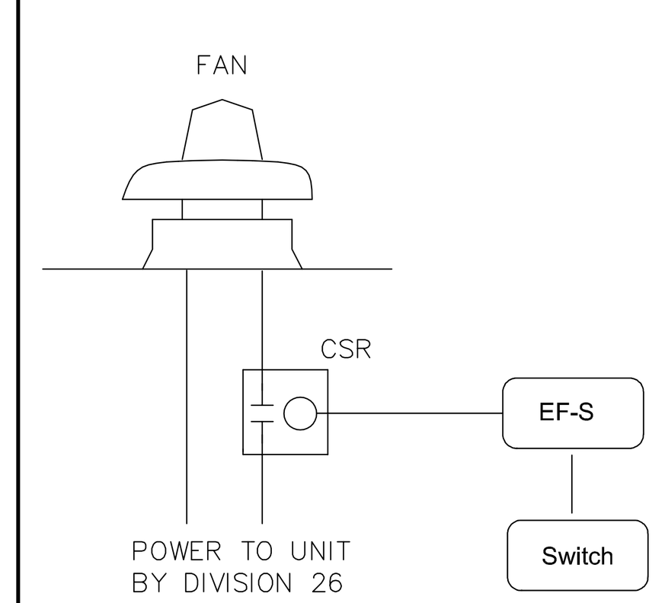


NOTES
1. Network diagram is representative of network layout. Controls contractor to provided controllers and network as need to install a complete system.
2. Basis of design – JCI Metasys call Chase Baker for pricing 916.599.1335 or email at chase.thomas.baker@jci.com
3. Controls contractor responsible for integrating new controllers into existing SCUSD Metasys server.
4. Controls contractor to generate graphics and MUI (space based navigation) to represent building layout

NETWORK RISER DIAGRAM | NTS | 1

Kitchen Exhaust & Hood Fan



Wall Switch Provided, powered and installed by others

Sequence of Operation

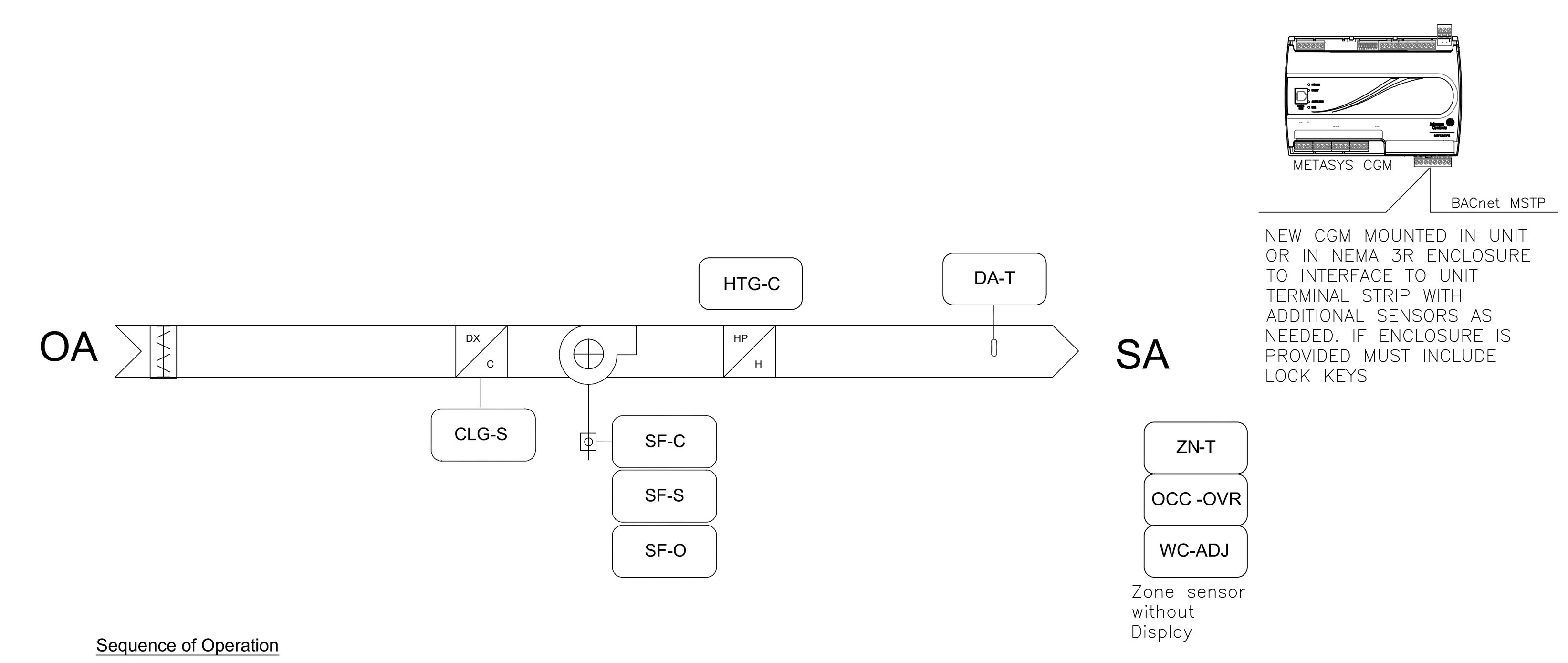
FAN CONTROL

The exhaust fan will be commanded on and off via a wall switch (provided and installed by the kitchen hood manufacturer).

The BMS is to monitor the status of this Fan.

FAN TAGS:
KEF-3-1, KEF-3-2

KITCHEN EXHAUST FAN | NTS | 3



Sequence of Operation

SUPPLY FAN CONTROL:

The supply fan (SF-C) will be started based on interlock to the kitchen exhaust fan. When the supply fan status (SF-S) indicates the fan started, the control sequence will be enabled. Upon a loss of airflow (SF-S), the supply fan will attempt to automatically restart until positive status is received. The supply fan will modulate (SF-O) run to maintain the airflow determined during balance.

TEMPERATURE CONTROL:

The unit will control to maintain the locally adjustable zone temperature setpoint (ZN-ADJ) as sensed by the zone temperature (ZN-T) sensor.

OCCUPIED MODE:

The occupancy mode will be controlled via a network input (OCC-SCHEDULE). The occupancy mode can also be overridden by a network input (OCC-OVERRIDE). A temporary occupancy button (ZN-TOCC) on the zone sensor will place the unit in occupied mode for an adjustable time.

UNOCCUPIED MODE:

The unit will cycle to maintain unoccupied zone setpoints (CLGUNOCC-SP & HTGUNOCC-SP) during unoccupied periods.

COOLING COIL:

The cooling coil will be staged in sequence to maintain the temperature setpoint.

HEATING COIL:

The heating coil will be staged in sequence to maintain the temperature setpoint.

EXHAUST FAN INTERLOCK:

The make up air unit is interlocked to its respective exhaust fan. Whenever the EF fan is commanded on, the MAU will similarly be commanded on. The two fans will run in tandem to maintain a slight positive pressure in the space as determined during the system balance.

ADDITIONAL POINTS MONITORED BY THE BMS:

Supply Fan Amperage (SF-S)

Discharge Air Temperature (DA-T)

Compressor Amperage (CLG-S)

ALARMS
The BMS system shall generate an alarm if:
–The zone temperature is 6 degrees away from set point.
–The fan command does not match its status
–The cooling/heating command does not match its status

MAKE-UP AIR UNIT (MAU-3-1) | NTS | 2

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PROJECT:
LUTHER BURBANK HIGH SCHOOL CAFETERIA MODERNIZATION

SHEET NAME:
MECHANICAL CONTROLS

DSA SUBMITTAL

DATE: 09/18/2024 | CLIENT PROJ NO: 3186071000

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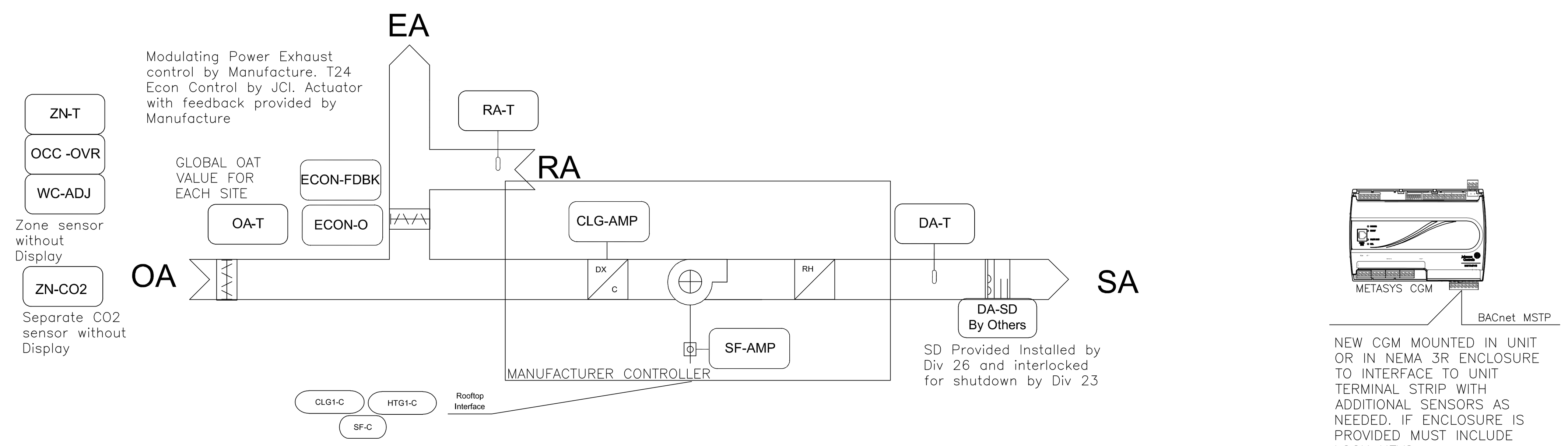

SUPPLY FAN CONTROL:
The supply fan (SF–C) will be started based on occupancy schedule. When the supply fan status (SF–AMP) indicates the fan started, the control sequence will be enabled. Upon a loss of airflow (SF–AMP), the supply fan will attempt to automatically restart until positive status is received.

SINGLE ZONE VAV CONTROL
Upon a call for cooling – the manufacture control board shall stage the supply fan in sequence with the cooling per the single zone VAV guidelines in ASHRAE 90.1

ECONOMIZER CONTROL:
The BMS contractor shall provide the Title 24 FDD economizer control with associated sensors and logic for a functional system. This includes global outside air temp (OA–T, unique to the site), return air temp (RA–T), discharge air temp (DA–T) and a damper actuator/command (ECON–O) and damper actuator feedback (ECON–FDBK) for typical dry bulb control. The BMS will generate the Faults as per the T24 code and display them as an alarm at the OWS. The faults are to be 1. Air temperature sensor failure/fault 2. Not economizing when it should 3. Economizing when it should not 4. Dampers not modulating 5. Excess outdoor air. The economizer will be enabled whenever the OAT is lower than the Econ Enable Set point.

TEMPERATURE CONTROL:
The unit will control to maintain the locally adjustable zone temperature setpoint (ZN–SP) (WC–ADJ) as sensed by the zone temperature (ZN–T) sensor.

OCCUPIED MODE:
The occupancy mode will be controlled via a network input (OCC–SCHEDULE). The occupancy mode can also be overridden by a network input (OCC–OVERRIDE). It can also be overridden by a temporary occupancy button (OCC–OVR) on the zone sensor will place the unit in occupied mode for an adjustable time – user adjustable initially set for 2 hours. When in occupied mode the fan fan will run continuously.

UNOCCUPIED MODE:
The unit will cycle to maintain unoccupied zone setpoints (CLGUNOCC–SP & HTGUNOCC–SP) during unoccupied periods. The fan will only be on when there is a call for cooling or heating and a compressor or heater is enabled. The fan will be off at all other times.

COOLING COIL:
The cooling coil (CLGx–C) will be staged in sequence to maintain the temperature setpoint initially set at 73 and variable at the zone from 73–77.

HEAT PUMP CONTROL:

When the zone temperature (ZN–T) falls below the zone temperature setpoint (ZN–SP) the reversing valve (s) (REV–C) will be indexed to provide heating when the compressor is running. When the zone temperature (ZN–T) rises above the zone temperature setpoint (ZN–SP) the reversing valve (s) (REV–C) will be indexed to provide cooling when the compressor is running.

HEAT PUMP HEATING:

The reheat coil (HTGx–C) will be staged in sequence to maintain the temperature setpoint initially set at 69 and variable at the zone from 65–69. If the unit is supplied with KW heat strips it will control them per the manufacture SOO for defrost or supplemental heat to meet heating requests from the BMS.

UNOCCUPIED SETPOINTS:

When unoccupied the cooling set point is 90F (fixed value with no range, user adjustable)

When unoccupied the heating set point is 50F (fixed value with no range, user adjustable)

LOAD SHED PROGRAM:
The AC unit will be part of the utility Load Shed Program. Whenever the utility company sends the network level command to shed load, the BMS will reset the zone cooling set point UP by 2F while maintaining the same range for warm cool adjust (IE – from 75–79F). This load shed event will continue until the utility releases the load shed event command. When the utility releases the load shed event, the BMS will revert to normal set points 5 units at a time per site every 3 min until 100% of the units are back at the normal set point.

CO2 VENTILATION:
The BMS will utilize a zone CO2 sensor sensor to monitor space CO2 value. The BMS will alarm if the zone CO2 value ever rises above 1,000 PPM. After alarming, the BMS will modulate the OSA damper for the common plenum open 10% every 5 min until the zone CO2 set point falls below the set point of 1,000 ::M at which point the OSA damper will revert back to its default position. This SOO will be applicable if any of the connected systems is above set POI.

VIRUS MODE:
Via the user interface, the BMS will be able to send a global command to all controlled economizer damper actuators and supply fans. In this mode the economizer actuator is to stroke 100% open to introduce the maximum amount of OSA. The supply fan will be commanded on 24/7 reglardless of occupancy schedule. Temperature control will remain per the occupied/unoccupied setpoints above and existing schedule. The Virus mode will take secondary priority to smoke mode.

SMOKE MODE:
Via the user interface, the BMS will be able to send a global command to all controlled economizer damper actuators to stroke an (adj.) amount closed and limit OSA. Additionally – this command will change the supply fan control from continuous during occupied to cycled with a call for cooling. The occupied cooling temperature setpoint will changed to a fixed value at 74F, the unoccupied setpoint will remain the same at 90F. Heating setpoints remain unchanged. This SOO will remain active as long as the global command is active and will take priority over Virus mode.

OPTIMIZED START/STOP:
JCI will leverage the JCI standard optimized start/stop logic block to provide micro–adjustments to the unit enable command in the morning and disable in the evening. Leveraging global outside air temp, zone temp, zone set point and schedule the BMS will enable/disable unit at different times each day to hit the setpoints when the schedule switches from occupied to unoccupied or visa versa.

ALARMS
The BMS system shall generate an alarm if:
–The zone temperature is 6 degrees away from set point.
–The fan command does not match its status
–The cooling command does not match its status

The BMS will disable ALL alarms during unoccupied mode.

ADDITIONAL POINTS MONITORED BY THE FMS:
Supply Fan Amperage (SF–AMP)
Discharge Air Temperature (DA–T)
Compressor Amperage (CLG–AMP)
Return Air Temperature Sensor (RA–T)
Zone CO2 – (ZN–CO2)
Economizer Position Feedback (ECON–FDBK)

PACKAGED HEAT PUMP (HP-3-1) NTS 1

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PROJECT:
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SHEET NAME:
MECHANICAL CONTROLS

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DATE: **09/18/2024** CLIENT PROJ NO: **3186071000**

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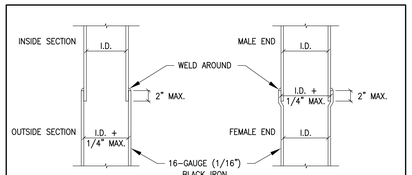


CMC FIGURE 510.5.3.2(1)
TELESCOPING – TYPE DUCT CONNECTION
[NFPA 96: FIGURE 7.5.5.1(a)]

NOTES:
1. DUCT SIZE DECREASES (GOING UPWARD) WITH EACH TELESCOPE.
2. SMALLER (INSIDE) DUCT SECTION SHALL BE ABOVE OR UPHILL (ON SLOPED DUCT), TO BE SELF DRAINING INTO LARGER (OUTSIDE) DUCT.

CMC FIGURE 510.5.3.2(2)
BELL–TYPE DUCT CONNECTION
[NFPA 96: FIGURE 7.5.5.1(b)]

NOTES:
1. DUCT SIZE THE SAME THROUGHOUT THE DUCT SYSTEM.
2. SMALLER (INSIDE) MALE DUCT END IS ALWAYS ABOVE OR UPHILL (ON SLOPED DUCT), TO BE SELF DRAINING INTO LARGER (OUTSIDE) FEMALE DUCT END.

TYPE 1 EXHAUST DUCT CONNECTIONS — NTS — 8

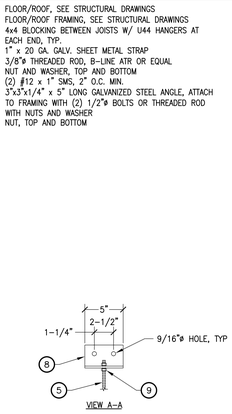
DIMENSION OF LONGEST SIDE INCHES	SHEET METAL GAGE (ALL FOUR SIDES)	MINIMUM REINFORCING ANGLE SIZE AND MAXIMUM LONGITUDINAL SPACING BETWEEN TRANSVERSE JOINTS &/OR INTERMEDIATE REINFORCING	TRANSVERSE REINFORCING (1) AT JOINTS: MIN. HT. IN.	DRIVE SLIP / PLAIN S SLIP RECOM-MENDED GAGE	HEMMED S SLIP RECOM-MENDED GAGE	ALTER'NT BAR SLIP RECOM-MENDED GAGE	REINFORCED BAR SLIP RECOM-MENDED GAGE
UP THRU 12	26	NONE REQUIRED	1	26	26	24	24
13 – 18	24	NONE REQUIRED	1	24	24	24	24
19 – 30	24	1" x 1" x 1/8" @ 60 IN.	1		24	24	24
31 – 42	22	1" x 1" x 1/8" @ 60 IN.	1			22	22

(1) TRANSVERSE REINFORCING SIZE IS DETERMINED BY DIMENSION OF SIDE TO WHICH ANGLE IS APPLIED.

M30USC07A

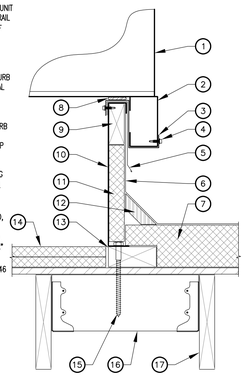
DUCT CONSTRUCTION STANDARDS — NTS — 4

1. FLOOR/ROOF, SEE STRUCTURAL DRAWINGS
2. FLOOR/ROOF FRAMING, SEE STRUCTURAL DRAWINGS
3. 4x4 BLOCKING BETWEEN JOISTS W/ U44 HANGERS AT EACH END, TYP.
4. 1" x 20 GA. GALV. SHEET METAL STRAP
5. 3/8"ø THREADED ROD, B-LINE ATR OR EQUAL
6. NUT AND WASHER, TOP AND BOTTOM
7. (2) #12 x 1" SMS, 2" O.C. MIN.
8. 3"x3"x1/4" x 5" LONG GALVANIZED STEEL ANGLE, ATTACH TO FRAMING WITH (2) 1/2"ø BOLTS OR THREADED ROD WITH NUTS AND WASHER
9. NUT, TOP AND BOTTOM



HANGER UPPER ATTACHMENTS (WOOD) — NTS — 1

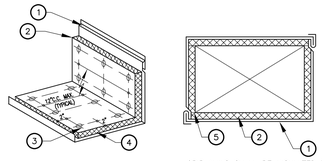
1. PACKAGED ROOFTOP UNIT, SEE SCHEDULES
2. UNIT BASE RAIL
3. HOLD DOWN S-CLIP, 16 GA STEEL, 6" WIDE, MIN. (2) ON EA LONG SIDE OF UNIT
4. SECURE HOLD DOWNS TO UNIT BASE RAIL AND CURB WITH (4) #12 X 3/4" SELF DRILLING TEK SCREWS, (2) PER SIDE, TYP.
5. 26 GA GALV. SM COUNTERFLASHING
6. ROOFING UP AND UNDER FLASHING
7. ROOF INSULATION FORMED TO MEET CURB WHERE APPLICABLE, SEE ARCHITECTURAL DRAWINGS
8. 1/2" THICK NEOPRENE GASKET ALL AROUND CURB
9. WOOD NAILER PROVIDED WITH UNIT CURB
10. UNIT CURB, SEE SCHEDULES
11. RIGID INSULATION, FILL CURB CAVITY UP TO WOOD NAILER
12. CANT STRIP
13. PRESSURE TREATED DOUG FIR LEVELING BLOCK, MIN. 2" HIGH, TOP FLAT/LEVEL (MAY BE OMITTED WITH USE OF PRE-SLOPED CURB)
14. 2-LAYERS 1" THICK INSULATION BOARD, COVER ROOF INSIDE CURB
15. 1/2"ø LAG SCREW W/ MIN. 4" EMBED. INTO BLOCKING, MAX. 24" O.C., MAX 8" FROM ENDS, MIN. (2) EACH SIDE
16. 4X6 BLOCKING BETWEEN JOISTS W/ U46 HANGERS EA. END
17. ROOF FRAMING, SEE STRUCTURAL



NOTES:
A. COORDINATE HOLD DOWN S-CLIP QUANTITY AND LOCATIONS PRIOR TO INSTALLING UNIT.

ROOFTOP UNIT MOUNTING (WOOD) — NTS — 9

1. GALVANIZED SHEET METAL DUCT.
2. 1" THICK ACOUSTIC DUCT LINER, LINER TO BE ADHERED TO DUCT. w/ 100% ADHESIVE (MIRACLE PF96)
3. NOT MORE THAN 2" FROM LEDGE OF DUCT LINER.
4. ALL ENDS OF LINER TO BE COATED WITH ADHESIVE. (MIRACLE PF96). ENDS OF LINER SHALL BE BUTTED FIRMLY TOGETHER.
5. TOP AND BOTTOM SECTIONS OF LINER SHALL OVERLAP THE SIDES.



METAL FASTENERS: OMARK INSUL-PINS. DURA DYNE FASTENERS OR GRIP NAILS.

GRIP NAILS SHALL BE INSULATED BY " GRIP NAIL AIR-HAMMER" OR BY AUTOMATIC FASTENER EQUIPMENT.

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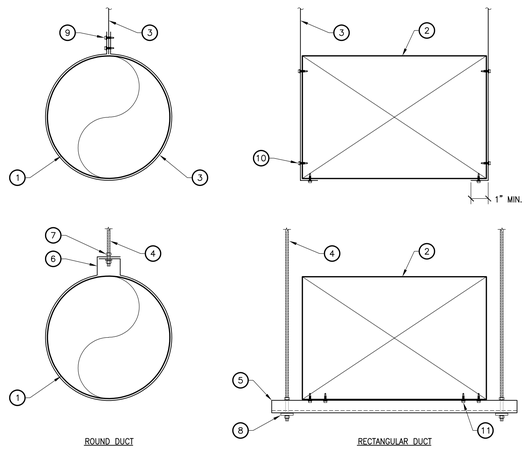
ACOUSTIC LINED DUCTS — NTS — 5

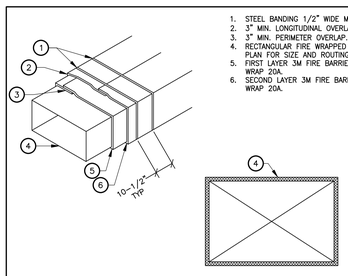
1. ROUND DUCT, SEE PLAN FOR SIZE AND ROUTING
2. RECTANGULAR DUCT, SEE PLAN FOR SIZE AND ROUTING
3. 1" x 20 GA. GALV. SHEET METAL STRAP
4. 3/8"ø THREADED ROD, B-LINE ATR OR EQUAL
5. 1-5/8"x1-5/8"x12 GA UNISTRUT CHANNEL, B-LINE B22 OR EQUAL
6. 1" x 20 GA GALV. SHEET METAL STRAP WITH 3"x2" HIGH FLANGE
7. NUT AND WASHER, TOP AND BOTTOM
8. NUT, TOP AND BOTTOM WITH UNISTRUT SQUARE WASHER, B-LINE MODEL B2012N OR EQUAL
9. (2) #10 TEK SCREWS
10. (3) #10 TEK SCREWS, EA SIDE
11. (2) #10 TEK SCREWS, EA SIDE



NOTES:
A. HANGER SPACING TO BE AT MAXIMUM 8FT O.C.
B. DUCTWORK WITH A CROSS-SECTIONAL AREA OF LESS THAN 6 SQUARE FEET AND WEIGHT OF 20 LB/FT OR LESS DO NOT REQUIRE SEISMIC BRACING PER CBC SECTION 1617A.1.25 AND ASCE 7, SECTION 13.6.6 (EXCEPTION 2).

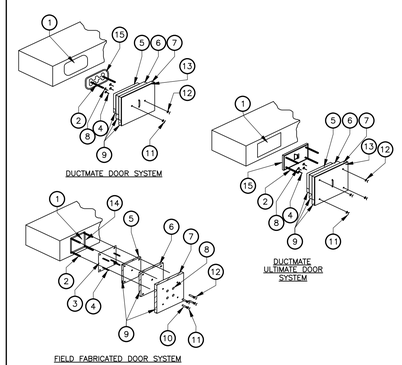
DUCT HANGERS (<6 SF & <=20 PLF) — NTS — 2

1. STEEL BANDING 1/2" WIDE MIN. (TYP).
2. 3" MIN. LONGITUDINAL OVERLAP.
3. 3" MIN. PERIMETER OVERLAP.
4. RECTANGULAR FIRE WRAPPED DUCT, SEE PLAN FOR SIZE AND ROUTING.
5. FIRST LAYER 3M FIRE BARRIER DUCT WRAP 20A.
6. SECOND LAYER 3M FIRE BARRIER DUCT WRAP 20A.



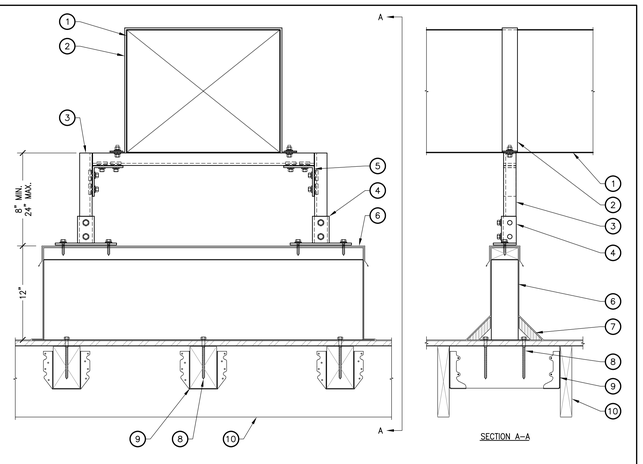
DUCT FIRE WRAP DETAIL — NTS — 6

1. ACCESS DOOR OPENING.
2. ALL THREAD RODS
3. ACCESS DOOR COVER PANEL 16 GAUGE (FIELD FAB. ONLY).
4. INSULATION PINS – WELDED TO COVER.
5. FIRST LAYER FIREWRAP.
6. SECOND LAYER FIREWRAP, 1" OVERLAP.
7. THIRD LAYER FIREWRAP, 1" OVERLAP.
8. SPEED CLIPS/WASHERS.
9. CUT EDGES SEALED WITH ALUMINUM FOIL TAPE.
10. SPOOL PIECES FOR THREAED RODS (OPTIONAL FIELD FAB. ONLY).
11. WING NUTS.
12. WASHERS.
13. INSULATION PLATE.
14. CERAMIC FIBER GASKET, 1/2" THICK.
15. PRE-FABRICATED ACCESS DOOR.



ACCESS DOOR DETAIL — NTS — 7

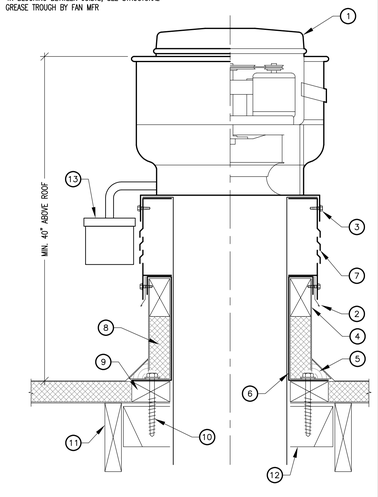
1. RECTANGULAR OR ROUND DUCT, SEE PLAN FOR SIZE
2. 2" WIDE X 18 GA. GALV. SHEET METAL STRAP, FOLD OVER ENDS, SECURE TO CHANNEL WITH 3/8"ø BOLTS WITH NUT AND WASHER AT EACH END
3. 1-5/8"X1-5/8"X12 GA UNISTRUT CHANNEL, B-LINE B22 OR EQUAL, TYP
4. CHANNEL POST BASE, B-LINE B280FL OR EQUAL, SECURE TO CURB WITH (2) 3/8"ø STAINLESS STEEL WOOD SCREWS WITH WASHER, MIN. 1" EMBED., SILICONE SEAL PENETRATION WATERTIGHT
5. 4-HOLE CORNER ANGLE, B-LINE B115 OR EQUAL, SECURE TO UNISTRUT CHANNEL WITH (4) 3/8"ø BOLTS WITH CHANNEL NUTS, TYP
6. 12" HIGH PREFAB. 18 GA. GALV. STEEL SUPPORT CURB WITH 1-1/2" PRESSURE TREATED WOOD NAILER AND SHEET METAL COUNTERFLASHING, PATE MODEL ES-2 OR EQUAL
7. CANT STRIP, BOTH LONG SIDES OF CURB
8. 3/8"ø LAG SCREW WITH MIN. 4" EMBED INTO BLOCKING, MAX. 24" O.C., MAX. 3" FROM ENDS, MIN. (2) EACH SIDE OF CURB
9. 4X6 BLOCKING BETWEEN JOISTS WITH U46 HANGERS EACH END
10. ROOF FRAMING, SEE STRUCTURAL



NOTES:
A. SUPPORT SPACING TO BE AT MAXIMUM 8FT O.C.

DUCT SUPPORT ON ROOF (WOOD) — NTS — 3

1. KITCHEN EXHAUST FAN, SEE SCHEDULES
2. 26 GA GALV. SM COUNTERFLASHING
3. SECURE FAN TO CURB WITH #12 SS SM SCREWS, 4 PER SIDE.
4. ROOFING UP AND UNDER FLASHING
5. CANT STRIP
6. EXHAUST FAN CURB WITH HINGED CURB CAP AND CABLE RESTRAINTS BY FAN MFR
7. VENTED CURB EXTENSION BY FAN MFR
8. RIGID INSULATION ALL AROUND
9. PRESSURE TREATED DOUG FIR LEVELING BLOCK, MIN. 2" HIGH, TOP FLAT/LEVEL
10. 1/4"ø SS LAG SCREW W/4" MIN EMBED. INTO BLOCKING BELOW. SPACE AT 12" O.C., MIN 2 EACH SIDE AND 8" FROM END, TYP
11. ROOF FRAMING, SEE STRUCTURAL
12. 4X BLOCKING BETWEEN JOISTS, SEE STRUCTURAL
13. GREASE TROUGH BY FAN MFR



KTICHEN EXHAUST FAN MOUNTING — NTS — 10

AGENCY APPROVAL:

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Sacramento City UNIFIED SCHOOL DISTRICT

HMC Architects

3186-071-000

2101 CAPITOL AVENUE, SUITE 100,
SACRAMENTO, CA, 95816
916 368 7990 / www.hmcarchitects.com

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NOTES

CONSULTING ENGINEERS

MEP & FS / Sustainability / CxA

1209 Pleasant Grove Blvd.
Roseville, CA 95678
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Job #: 24-2001

REGISTERED PROFESSIONAL ENGINEER — BRIAN ENNIS — M 41413 — REN. 03-31-25 — MECHANICAL — STATE OF CALIFORNIA

FACILITY:
LUTHER BURBANK HIGH SCHOOL
3500 FLORIN RD
SACRAMENTO, CA 95823

PROJECT:
LUTHER BURBANK HIGH SCHOOL CAFETERIA MODERNIZATION

SHEET NAME:
MECHANICAL DETAILS

DSA SUBMITTAL

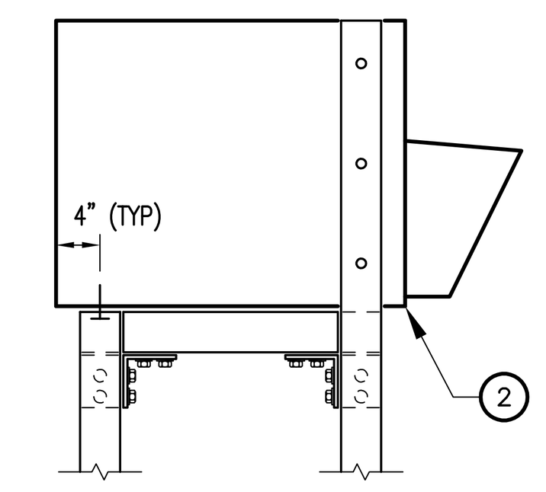
DATE: **09/18/2024** | CLIENT PROJ NO: **3186071000**

SHEET:

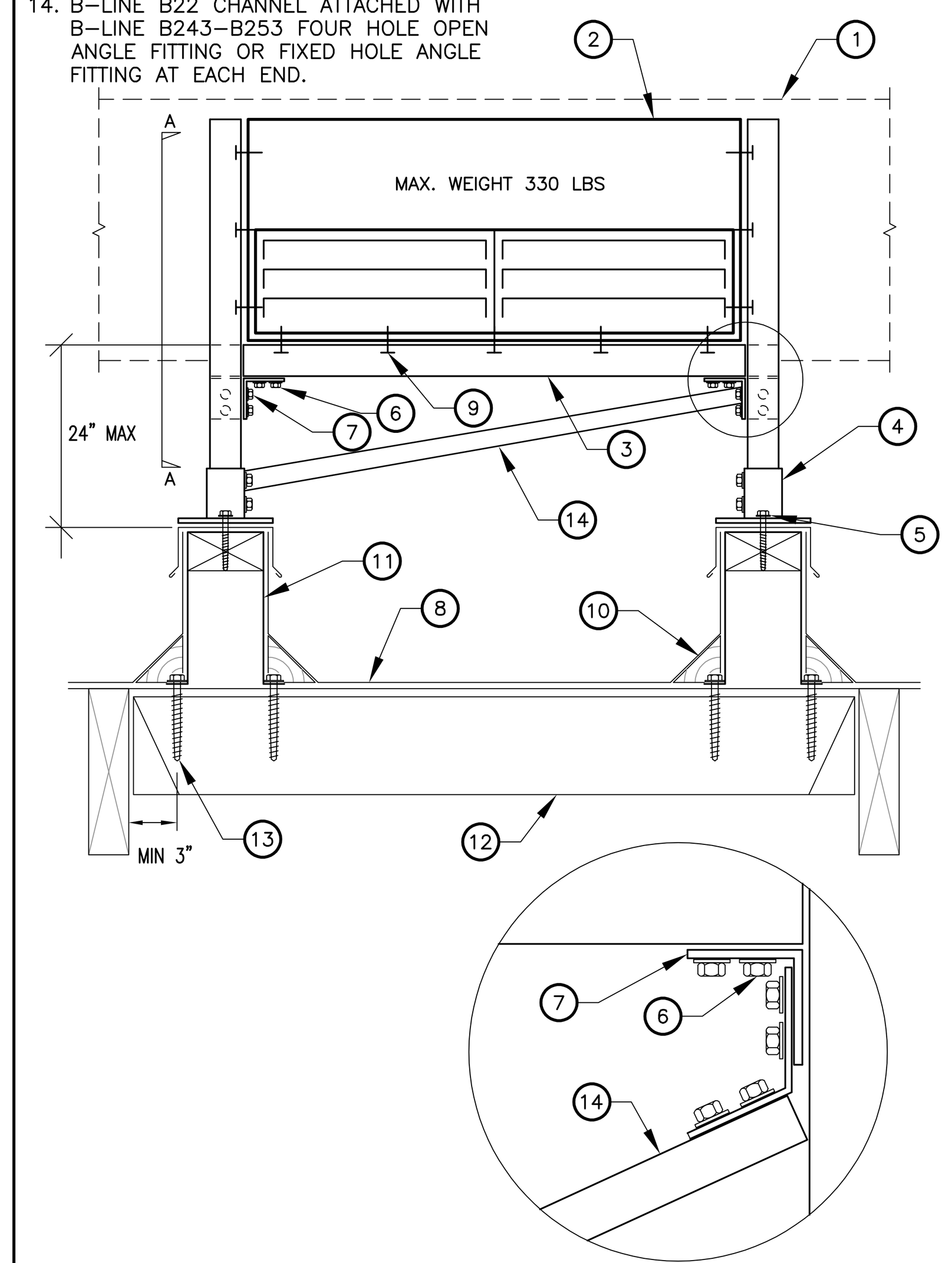
M7.01

1. RETURN AIR DUCTWORK
2. POWERED EXHAUST MODULE, SEE SCHEDULE
3. (B–LINE) B22 CHANNEL, (TYP)
4. (B–LINE) B280FL CHANNEL POST BASE, (TYP)
5. 3/8"ø LAG BOLT WITH NEOPRENE WASHER AND PRESS FIT HEADED DRILL BUSHING (BONEHAM, TYPE H, #07324106), MIN. 1–1/2" INTO NAILER, (2) BOLTS PER POST AT OPPOSITE CORNERS, MIN. 1–1/2" FROM EDGE DISTANCE OF THE PRE–FAB CURB, SILICONE SEAL PENETRATIONS WATERTIGHT
6. (4) 1/2"ø BOLT AND CHANNEL NUT PER ANGLE, (TYP)
7. (B–LINE) B121 EIGHT HOLE DOUBLE CORNER FITTING, (TYP)
8. ROOFING UP AND UNDER FLASHING
9. #12 SM SCREW AT 8" O.C., MIN. 2 PER SIDE.
10. CANT STRIP, TYP.
11. PATE ES–2 PREFAB. GALV. SHEET METAL EQUIP. CURB, 8" HIGH x 24" LONG WITH WOOD NAILER AND COUNTERFLASHING
12. 4X BLOCKING BETWEEN JOISTS W/ U44 HANGERS AT EA. END
13. 3/8"ø LAG SCREW WITH MIN. 1–3/4" INTO BLOCKING, (2) PER LONG SIDE, TYP.
14. B–LINE B22 CHANNEL ATTACHED WITH B–LINE B243–B253 FOUR HOLE OPEN ANGLE FITTING OR FIXED HOLE ANGLE FITTING AT EACH END.

NOTE:
A. COORDINATE UNISTRUT SUPPORT LOCATIONS WITH POWERED EXHAUST DISCONNECT, ACCESS PANELS, SERVICE CLEARANCES AND ANY OTHER OBSTRUCTIONS.

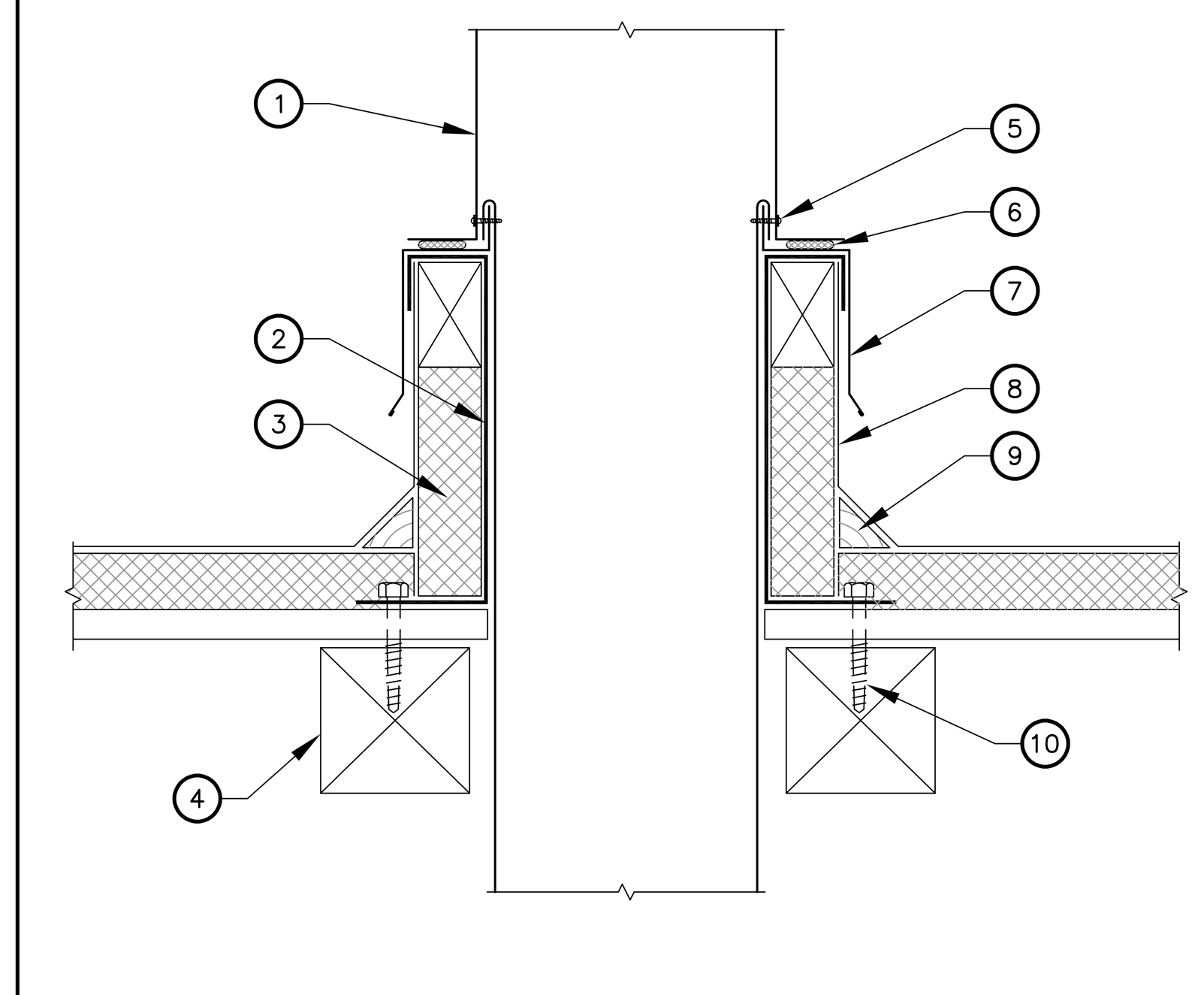


SECTION A–A

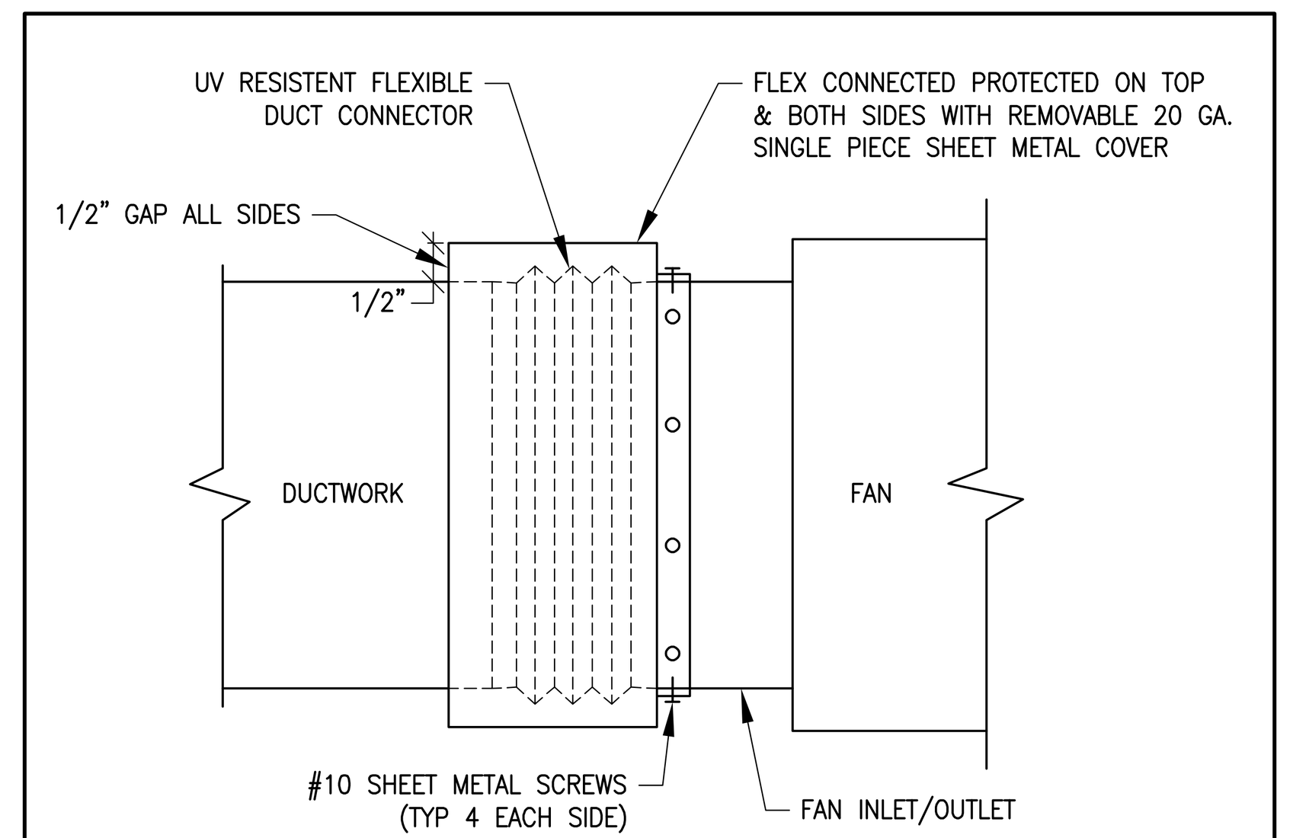


POWER EXHAUST SUPPORT ON ROOF | NTS | 7

1. DUCT THRU ROOF, SEE PLAN FOR SIZE AND ROUTING
2. PREFABRICATED PITCHED ROOF CURB, "THYCURB" MODEL TC–3 WITH WOOD NAILER
3. RIGID INSULATION ALL AROUND
4. 4X4 BLOCKING ALL AROUND CURB, SECURE TO ROOF FRAMING WITH U44 HANGERS
5. #10 MIN. x 1" SM SCREW WITH NEOPRENE WASHER AT 6" O.C., EACH SIDE
6. SEALANT ALL AROUND
7. 20 GA GALV SM COUNTER FLASHING
8. ROOFING UP AND UNDER FLASHING
9. CANT STRIP
10. 3/8 " x 3" LAG SCREW AT 12" O.C., MIN. 2 PER SIDE



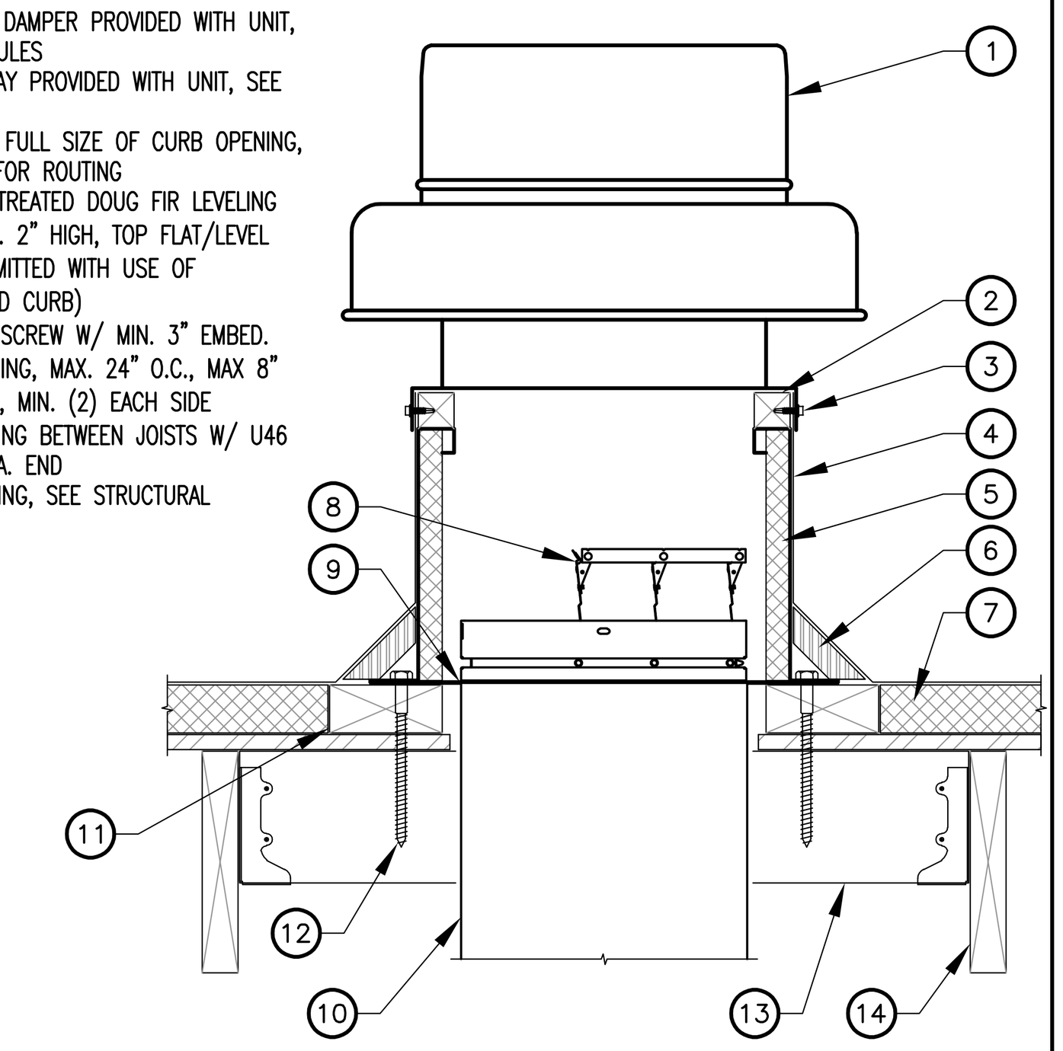
DUCT THRU ROOF DETAIL | NTS | 1



NOTE:
A. TO BE INSTALLED ON ALL FLEXIBLE DUCT CONNECTIONS OUTDOORS.

SHEET METAL COVER FOR FLEX DUCT | NTS | 2

1. ROOF EXHAUST FAN, SEE SCHEDULES
2. WOOD NAILER PROVIDED WITH UNIT CURB
3. #12 TEK SCREWS WITH MIN. 3/4" EMBED. INTO WOOD NAILER, MIN. (2) PER SIDE, SILICONE SEAL PENETRATIONS WATERTIGHT
4. ROOFING UP AND UNDER FAN FLASHING
5. UNIT CURB, SEE SCHEDULES
6. CANT STRIP
7. ROOF INSULATION FORMED TO MEET CURB WHERE APPLICABLE, SEE ARCHITECTURAL DRAWINGS
8. BACKDRAFT DAMPER PROVIDED WITH UNIT, SEE SCHEDULES
9. DAMPER TRAY PROVIDED WITH UNIT, SEE SCHEDULES
10. DUCTWORK, FULL SIZE OF CURB OPENING, SEE PLAN FOR ROUTING
11. PRESSURE TREATED DOUG FIR LEVELING BLOCK, MIN. 2" HIGH, TOP FLAT/LEVEL (MAY BE OMITTED WITH USE OF PRE–SLOPED CURB)
12. 1/2"ø LAG SCREW W/ MIN. 3" EMBED. INTO BLOCKING, MAX. 24" O.C., MAX 8" FROM ENDS, MIN. (2) EACH SIDE
13. 4X6 BLOCKING BETWEEN JOISTS W/ U46 HANGERS EA. END
14. ROOF FRAMING, SEE STRUCTURAL



ROOFTOP EXHAUST FAN (WOOD) | NTS | 3

AGENCY APPROVAL:

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HMC Architects

3186-071-000

2101 CAPITOL AVENUE, SUITE 100,
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916.368.7990 / www.hmcarchitects.com

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NOTES

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SHEET NAME:
MECHANICAL DETAILS

DSA SUBMITTAL

DATE: 09/18/2024 | CLIENT PROJ NO: 3186071000

SHEET:
M7.02

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DEMOLITION GENERAL NOTES

ALL DEMOLITION GENERAL NOTES SHOWN BELOW ARE NOT NECESSARILY USED ON PLANS IF NOT REQUIRED.

1. ALL EXISTING EQUIPMENT, DEVICES, CONDUIT, AND WIRING, ETC., WHERE SHOWN ON PLANS ARE BASED ON AVAILABLE EXISTING DOCUMENTS AND LIMITED SITE SURVEYS AND ARE SHOWN FOR CLARITY. IT SHALL BE REGARDED AS AN APPROXIMATION ONLY. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT. PRIOR TO SUBMITTING BID AND BEFORE START OF ANY ELECTRICAL WORK, CONTRACTOR SHALL VERIFY ON–SITE ALL EXISTING LOCATIONS AND CONDITIONS TO ASCERTAIN ALL WORK REQUIRED.
2. EXISTING ELECTRICAL MAIN SERVICE IS BEING REPLACED WITH NEW THAT IS TO BE INCLUDED IN THE SCOPE OF WORK. CONTRACTOR SHALL VERIFY AND COORDINATE THE SEQUENCE OF WORK WITH THE LOCAL UTILITY COMPANY, THE OWNER/DISTRICT'S REPRESENTATIVE, AND OTHER TRADES AT THE EARLIEST START OF CONSTRUCTION FOR ALL REQUIREMENTS AND SCHEDULING OF THE REQUIRED WORK FOR A SMOOTH AND TIMELY TRANSFORMATION FROM THE EXISTING SERVICE TO THE NEW SERVICE TO ENSURE THAT ALL WORK PROCEEDS WITH A MINIMUM OF INTERFERENCE AND DELAY. LIMIT THE ELECTRICAL SHUTDOWN TO A MINIMUM SO IT WILL NOT AFFECT THE EXISTING FACILITY'S NORMAL DAILY FUNCTIONS AND OPERATION.
3. CAUSE AS LITTLE INTERFERENCE OR INTERRUPTION OF EXISTING UTILITIES AND/OR OTHER EXISTING FACILITY'S SYSTEMS AND SERVICES AS POSSIBLE. CONTRACTOR SHALL NOTIFY THE OWNER/DISTRICT'S REPRESENTATIVE AT LEAST 72 HOURS TO SCHEDULE ALL NECESSARY SHUTDOWN. SHUTDOWN WORK SHALL BE PERFORMED AFTER THE NORMAL OPERATION HOURS OF THE FACILITY, IF SO DIRECTED BY THE OWNER/DISTRICT'S REPRESENTATIVE.
4. ALL REMOVED AND/OR DEMOLISHED ELECTRICAL MATERIALS AND EQUIPMENT TO BE ACCOMPLISHED UNDER THIS CONTRACT, WHICH IN THE OPINION OF THE OWNER/DISTRICT'S REPRESENTATIVE ARE DEEMED SALVAGEABLE, SHALL REMAIN THE PROPERTY OF THE OWNER/DISTRICT. ALL ELECTRICAL MATERIAL AND EQUIPMENT CONSIDERED NOT SALVAGEABLE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF BY THE CONTRACTOR ACCORDINGLY.
5. WHERE REMOVAL OF AN EXISTING SYSTEM'S DEVICE WILL RESULT IN LOSS OF CIRCUIT CONTINUITY, THE ISOLATED PORTIONS OF THE CIRCUIT SHALL BE RECONNECTED TO PROVIDE SERVICE TO ALL REMAINING DEVICES. IF SITE CONDITIONS MAKE RECONNECTION IMPOSSIBLE, CONNECTION SHALL BE MADE FROM AN ADJACENT AVAILABLE DEVICE AS NOTED AND/OR AS DIRECTED BY THE ARCHITECT AND/OR THE OWNER/DISTRICT'S REPRESENTATIVE.
6. WHERE EXISTING CONCEALED CONDUITS, WHETHER SHOWN OR NOT, OR SPECIFIED TO BE REUSED, WHICH BECAME EXPOSED DUE TO CONSTRUCTION CHANGES, IT SHALL BE REROUTED TO THE NEAREST AVAILABLE REUSED OUTLET.
7. ALL EXISTING EXPOSED CONDUITS AND/OR WIRING THAT ARE DETERMINED BY THE DISTRICT AND ARCHITECT TO BE MAINTAINED FOR EXISTING SYSTEM FUNCTION AND CONTINUITY, WHETHER SHOWN ON PLAN OR NOT, ARE TO BE REROUTED CONCEALED IN WALL AND/OR CEILING FOR A CLEAN FINISHED SURFACE WITH NO EXPOSED CONDUITS AND/OR WIRING WITHIN THE REMODELED AREA.
8. REMOVE ALL EXISTING EXPOSED CONDUITS, WIRING, ELECTRICAL OUTLETS, DEVICES, AND EQUIPMENT THAT ARE DETERMINED BY THE DISTRICT REPRESENTATIVE/OWNER AND ARCHITECT TO BE NON FUNCTIONAL AND/OR NOT BEING USED FROM WITHIN THE REMODELED AREA FOR A CLEAN FINISHED SURFACE.
9. WHERE EXISTING WIRING OR EQUIPMENT IS ABANDONED AS A RESULT OF THIS CONTRACT, IT SHALL BE REMOVED INSOFAR AS POSSIBLE. THIS INCLUDES BUT IS NOT LIMITED TO:
   - A. REMOVE ALL WIRE AND CABLE.
   - B. REMOVE ALL DEVICES AND EQUIPMENT.
   - C. REMOVE ALL EXPOSED CONDUIT AND CONDUIT IN ACCESSIBLE CONCEALED AREAS, AS FAR AS POSSIBLE.
   - D. CUT OFF AND CAP ALL ABANDONED CONDUIT. STUBS SHALL NOT BE PROTRUDED ABOVE FLOOR AND/OR FINISHED WALLS AND CEILINGS.
10. WHEREVER EXISTING ELECTRICAL DEVICES, PANELS, CONDUITS, CABLES, ETC., CONFLICT WITH REMODEL WORK, WHETHER SHOWN OR NOT, RELOCATE THESE ITEMS AS DIRECTED BY THE ARCHITECT AND/OR OWNER/DISTRICT'S REPRESENTATIVE.
11. WHERE SHOWN ON PLAN FOR REMOVAL OF EXISTING CONDUITS, REMOVE ALL PORTIONS OF CONDUITS WHERE IT IS ACCESSIBLE AND ABANDON PORTIONS OF CONDUITS WHERE IT IS INACCESSIBLE. CUT OFF AND CAP ALL ABANDONED CONDUITS. STUBS SHALL NOT BE PROTRUDED ABOVE FLOOR AND/OR FINISHED WALLS AND CEILINGS.
12. CONTRACTOR SHALL UPDATE WITH NEW TYPEWRITTEN PANEL DIRECTORIES TO EXISTING PANELS INVOLVED IN THIS RENOVATION WORK THAT SHALL REFLECT ALL CHANGES TO THE CIRCUIT DESIGNATIONS.
13. PROVIDE AND INSTALL PROTECTIVE COVERING OVER EXISTING EQUIPMENT IN AREA WHEN INSTALLING ANY NEW WORK.
14. COORDINATE WITH OTHER TRADES AND PROMPTLY TRANSMIT ALL INFORMATION REQUIRED BY THEM. COORDINATE THE SEQUENCE OF DEMOLITION WITH OTHER TRADES TO ENSURE THAT ALL WORK PROCEEDS WITH A MINIMUM OF INTERFERENCE AND DELAY.
15. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR HEATERS, EXHAUST FANS, WATER HEATERS, PUMPS, ETC., WHICH ARE REQUIRED TO BE DISCONNECTED BY THE ELECTRICAL CONTRACTOR FOR REMOVAL OR ABANDONMENT BY THE MECHANICAL AND/OR PLUMBING CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE SEQUENCE OF WORK WITH THE MECHANICAL AND/OR PLUMBING CONTRACTOR FOR REMOVAL OF ALL APPLICABLE STARTERS, DISCONNECT SWITCHES, AND ASSOCIATED CONDUIT, AND WIRING.
16. ALL LIGHT FIXTURES INDICATED AS RELOCATED SHALL BE CLEANED AND RE–LAMPED PRIOR TO THE RE–INSTALLATION.

EQUIPMENT ANCHORAGE NOTES

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 2022 CBC SECTIONS 1617A.1.17 THROUGH 1617A.1.20 & 1617A.1.23 AND ASCE 7–16 CHAPTERS 13, 26 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) 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.
3. 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:

- A. 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.
- B. 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 HUNG 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 WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING AND DUCTWORK DISTRIBUTION SYSTEM BRACING NOTES

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 2022 CBC, SECTIONS 1617A.1.24 THROUGH 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., HCAi 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 HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER 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 SPECIFIC NOTES AND DETAILS.
☐	☐	☐	☐	OPTION 2: SHALL COMPLY WITH HCAi (OSHPD) PRE–APPROVAL. PRE–APPROVAL (OPM#) # __________

GENERAL NOTES

ALL GENERAL NOTES SHOWN BELOW ARE NOT NECESSARILY USED ON PLANS IF NOT REQUIRED.

1. THESE GENERAL NOTES ARE INTENDED TO ASSIST THE CONTRACTOR IN THE EXECUTION OF THE ELECTRICAL WORK AND TO BE INCLUDED IN CONJUNCTION WITH THE CONTRACT DOCUMENT DRAWINGS AND SPECIFICATION REQUIREMENTS. SOME OF THE GENERAL NOTES ARE EXCERPTS FROM THE SPECIFICATION.
2. PROCURE PERMITS AND LICENSES REQUIRED. PAY ALL NECESSARY FEES AND ARRANGE FOR INSPECTIONS REQUIRED BY LOCAL CODES AND ORDINANCES AND UTILITY COMPANIES.
3. COORDINATE ALL ELECTRICAL SERVICES WITH THE RESPECTIVE UTILITY COMPANIES AND PROVIDE ALL TRENCHING, CONDUITS, WIRING, METER FACILITIES AND OUTLETS REQUIRED BY THEM.
4. WORKMANSHIP SHALL BE OF THE HIGHEST GRADE. DEFECTIVE EQUIPMENT OR EQUIPMENT DAMAGED IN THE COURSE OF INSTALLATION OR TEST SHALL BE REPLACED OR REPAIRED IN A MANNER MEETING WITH THE ACCEPTANCE OF THE ARCHITECT.
5. INSTALL ALL EQUIPMENT, CONDUITS, OUTLETS, AND FIXTURES IN STRICT ACCORDANCE WITH THE CURRENT EDITION OF ALL APPLICABLE CODES (CEC, STATE, COUNTY AND CITY).
6. DO NOT SCALE PLANS FOR FIXTURES, DEVICES, OR APPLIANCE LOCATIONS. USE FIGURED DIMENSIONS IF GIVEN OR CHECK MECHANICAL AND ARCHITECTURAL PLANS. ALSO REFER TO ACTUAL ON–SITE CONDITIONS.
7. ALL MATERIAL AND EQUIPMENT IS TO BE LISTED AND INSTALLED PER MANUFACTURER'S SPECIFICATIONS AND CEC 110.3.
8. ALL ELECTRICAL DEVICES AND EQUIPMENT, FIXTURES, CONDUITS AND WIRING SHOWN ON THESE PLANS ARE NEW, UNLESS OTHERWISE NOTED.
9. OUTLET BOXES INSTALLED IN FIRE WALLS SHALL BE ONE–PIECE STEEL AND INSTALLED IN SEPARATE (STAGGERED) STUD PENETRATIONS, MINIMUM 24 INCHES HORIZONTAL SEPARATION. FIRE WALLS SHALL BE MADE IN ACCORDANCE WITH CBC AND ELECTRICAL CODES.
10. THE FINAL LOCATION OF ALL OUTLETS SHALL BE VERIFIED WITH THE ARCHITECT AND/OR OWNER AT TIME OF CONSTRUCTION.
11. ALL OUTDOOR ELECTRICAL EQUIPMENT SHALL BE WEATHER–PROTECTED.
12. CONTRACTOR SHALL VERIFY THAT ALL LIGHTING FIXTURES, CEILING TRIMS, AND FRAMES ARE COMPATIBLE WITH CEILING SYSTEM INSTALLED.
13. CONTRACTOR SHALL COORDINATE LIGHT FIXTURE LOCATIONS AND INSTALLATIONS WITH THE MECHANICAL CONTRACTOR. MAINTAIN REQUIRED CLEARANCES (MINIMUM 3 INCHES) BETWEEN THE LIGHT FIXTURES AND MECHANICAL DUCTS OR EQUIPMENT FOR PROPER OPERATION, INSTALLATION AND/OR REMOVAL OF FIXTURES.
14. BEFORE SUBMITTING FOR ARCHITECT'S REVIEW AND PLACING ORDER FOR THE LIGHT FIXTURES, THE CONTRACTOR SHALL VERIFY THE VOLTAGE OF ALL THE LIGHTING FIXTURES TO MATCH THE VOLTAGE OF THE SERVICE PANEL, WHETHER THE VOLTAGE FOR THE LIGHT FIXTURES ARE SHOWN ON THE PLAN OR NOT.
15. PLACEMENT AND CIRCUITING OF EXIT SIGNS AND EGRESS LIGHTING SHALL COMPLY WITH CBC REQUIREMENTS.
16. ALL CONDUIT SHALL BE ROUTED CONCEALED UNLESS NOTED ON PLAN OR ACCEPTED BY THE ARCHITECT.
17. PROVIDE ALL NECESSARY SLEEVES AND INSERTS FOR ALL WORK PASSING THROUGH OR ATTACHING TO WALLS, FLOORS, OR CEILINGS.
18. ALL WIRING SHALL BE INSTALLED IN RIGID METALLIC CONDUIT, UNLESS OTHERWISE NOTED. CONDUITS INSTALLED CONCEALED IN WALL AND CEILING MAY BE EMT WITH STEEL COMPRESSION TYPE FITTINGS. PVC WHERE INSTALLED UNDERGROUND AND/OR UNDER SLAB. ALL EXPOSED CONDUITS SHALL BE RIGID STEEL CONDUITS WITH THREADED TYPE FITTINGS. INSTALL ALL CONDUITS IN ACCORDANCE WITH CECA STANDARDS OF INSTALLATION.
19. ELECTRICAL NON–METALLIC TUBING (ENT) AND MC CABLE ARE NOT PERMITTED TO BE USED FOR THIS PROJECT, NO EXCEPTIONS.
20. WHERE EXISTING CONDUITS, CONCEALED OR EXPOSED, AND (WIREMOLD) SURFACE RACEWAY IS NOT IN PLACE AS SHOWN ON PLANS, PROVIDE NEW CONDUITS AND (WIREMOLD) SURFACE RACEWAY FOR THE NEW WORK. VERIFY EXISTING CONDITION ON SITE AND PROVIDE ALL NECESSARY NEW MATERIAL, APPARATUS, AND WORK THAT ARE REQUIRED TO BE INCLUDED IN THE BID PACKAGE.
21. CONDUCTORS, #8 AND LARGER, SHALL BE STRANDED COPPER WITH THNN/THWN INSULATION, UNLESS OTHERWISE NOTED.
22. PROVIDE WORKING CLEARANCE PER CEC 110.26 FOR SERVICE PANEL, SUBPANELS, MOTOR DISCONNECT SWITCHES, CONTROL SECTIONS. HVAC EQUIPMENT, APPLIANCES, ETC.
23. PROVIDE A WARNING LABEL (SIGN) CLEARLY VISIBLE TO QUALIFIED PERSONS TO COMPLY WITH NEC AND CEC 116.16 OF POTENTIAL ELECTRIC ARC FLASH HAZARDS AT SWITCHBOARDS, PANELBOARDS, INDUSTRIAL CONTROL PANELS AND MOTOR CONTROL CENTERS THAT ARE LIKELY TO REQUIRE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE WHILE ENERGIZED. SERVICE EQUIPMENT SHALL BE LEGIBLY MARKED WITH THE MAXIMUM AVAILABLE FAULT CURRENT PER CEC SECTION 110.24(A).
24. BUILDING SERVICE AND SUBPANELS TO COMPLY WITH CEC 110.9 AND 110.10 INTERRUPTING RATING AND BRACING. PROVIDE A.I.C. CALCULATIONS FOR SUBPANELS IF INTERRUPTING RATING TO BE USED IS LOWER THAN MAIN SERVICE RATING.
25. ALL APPLIANCES SHALL COMPLY WITH CEC ARTICLE 422. APPLIANCE CONTROL AND PROTECTION PER CEC 422–III; BRANCH CIRCUITS PER 422–II.
26. BUILDING EXPANSION JOINTS MAY OR MAY NOT BE INDICATED ON THE ELECTRICAL DRAWINGS. VERIFY THE LOCATIONS OF ALL APPLICABLE BUILDING EXPANSION JOINTS WITH THE ARCHITECTURAL DRAWINGS. WIRING METHODS ACROSS EXPANSIONS JOINTS SHALL INCLUDE USE OF FLEXIBLE FITTINGS OR OTHER DEVICES AS APPROPRIATE TO EACH APPLICATION. IN NO CASE SHALL CONDUIT CROSS SUCH A JOINT IN BUILDING CONSTRUCTION WITHOUT USE OF THE APPROPRIATE WIRING METHODS.
27. CONTRACTOR SHALL SIZE ALL THE INTERIOR AND EXTERIOR BUILDING PULL BOXES AND UNDERGROUND PULL BOXES PER CEC 314.16 AND COMPLY WITH CEC 314.28 FOR INSTALLATION OF RACEWAYS AND WIRING AS REQUIRED BY CODE, UNLESS OTHERWISE NOTED.
28. WHERE ACCESSIBILITY IS NOT AVAILABLE TO ELECTRICAL OUTLETS, DEVICES AND/OR EQUIPMENT, COORDINATE WITH THE ARCHITECT FOR PROVISIONS TO PROVIDE ACCESSIBILITY TO THEM.
29. CONTRACTOR IS RESPONSIBLE FOR REVIEWING THE MECHANICAL DRAWINGS AND PROVIDES ALL CONDUITS AND CONTROL WIRING AND POWER WIRING SHOWN ON THE MECHANICAL DRAWINGS THAT IS NOT SHOWN ON THE ELECTRICAL PLANS.
30. CONTRACTOR SHALL REFER TO THE MECHANICAL DRAWINGS AND COORDINATE FOR THE EQUIPMENT LOCATIONS. COORDINATE ROOF PENETRATION WITH THE MECHANICAL CONTRACTOR FOR MECHANICAL CONNECTIONS. ENTER ROOF MOUNTED UNITS THROUGH EQUIPMENT MOUNTING CURBS WHERE POSSIBLE. VERIFY ON–SITE.
31. PROVIDE CONVENIENCE OUTLET WITHIN 25 FEET OF MECHANICAL EQUIPMENT PER U.M.C. WHERE LOCATED OUTSIDE, PROVIDE WEATHER PROOF AND GFCI CONVENIENCE OUTLET. SECURE ROOF MOUNTED OUTLET TO THE MECHANICAL EQUIPMENT. VERIFY LOCATION IN FIELD WITH THE MECHANICAL CONTRACTOR.
32. VERIFY SINGLE–POINT CONNECTIONS TO ROOF MOUNTED HVAC UNITS WITH MECHANICAL CONTRACTOR ON–SITE PRIOR TO ELECTRICAL ROUGH–IN. PROVIDE DUAL DISCONNECTS IF TWO–POINT CONNECTIONS ARE REQUIRED, WHETHER SHOWN ON PLANS OR NOT.
33. SWITCH DEVICES CONTROLLING MECHANICAL EQUIPMENT SHALL BE SIZE AND TYPE REQUIRED AND SHALL BE SERVED WITH QUANTITY OF WIRES AS REQUIRED. REFER TO DIVISION 23 MECHANICAL PLANS AND SPECIFICATIONS.
34. COORDINATE THE HVAC EQUIPMENT FOR FUSES REQUIRE. WHERE FUSES ARE REQUIRED, VERIFY FUSE SIZE ON–SITE AND PROVIDE FOR HVAC EQUIPMENT PER UNIT NAMEPLATE SPECIFICATIONS.
35. MOTOR DISCONNECT SWITCHES SHALL COMPLY WITH CEC 430–IX AND 440.II.
36. MOTOR STARTERS FOR HVAC EQUIPMENT ARE PROVIDED BY MECHANICAL CONTRACTOR AND CONNECTED BY ELECTRICAL CONTRACTOR, UNLESS NOTED OTHERWISE.
37. ALL CONNECTIONS FROM THE DISCONNECT SWITCHES TO HVAC UNITS SHALL BE COPPER CONDUCTORS. MOTOR DISCONNECT SWITCHES SHALL COMPLY WITH CEC 430–VII, 430–VIII, AND 440–II.
38. VERIFY LOCATION AND HEIGHT OF ALL MECHANICAL OR FIXTURE EQUIPMENT OUTLETS WITH SUPPLIER PRIOR TO ANY ROUGH–IN WORK. PROVIDE ALL RUNS AND CONNECTIONS TO EQUIPMENT.
39. ALL TERMINATION PROVISIONS OF EQUIPMENT, INCLUDING CIRCUITS RATED 100 AMPERES OR LESS, SHALL BE RATED AT 60 DEGREE, CENTIGRADE PER CEC 110.14(c).
40. ALL LIGHT FIXTURES INSTALLED OVER FOOD HANDLING OR FOOD PREPARATION AREAS, OPEN FOOD STORAGE AND UTENSIL WASHING AREAS SHALL BE OF SHATTERPROOF CONSTRUCTION OR SHALL BE PROTECTED WITH SHATTERPROOF SHIELDS AND SHALL BE READILY CLEANABLE.
41. ALL CONDUITS SHALL BE CONCEALED BELOW SLAB, IN WALLS AND/OR ABOVE CEILINGS EXCEPT IN ELECTRICAL ROOMS, MECHANICAL ROOMS, AND OTHER SIMILAR UTILITY ROOMS AS APPROVED BY THE ARCHITECT. NO CONDUIT SHALL BE EXPOSED ON EXTERIOR BUILDING SURFACES WITHOUT PRIOR APPROVAL FROM THE ARCHITECT.
42. PROVIDE A CODE SIZED GROUND CONDUCTOR IN ALL CONDUITS WHETHER INDICATED ON PLANS OR NOT.

ELECTRICAL ABBREVIATIONS

ABBREV	DESCRIPTIONS	ABBREV	DESCRIPTIONS
A, AMP	AMPERES	MAX	MAXIMUM
AC	ABOVE COUNTER	MC	METAL–CLAD CABLE
AF/AT	AMPERE FRAME / AMPERE TRIP	MCA	MINIMUM CIRCUIT AMPACITY
AFCI	ARC FAULT CIRCUIT INTERRUPTER	MCB	MAIN CIRCUIT BREAKER
AFF	ABOVE FINISHED FLOOR	MCC	MOTOR CONTROL CENTER
AHJ	AUTHORITY HAVING JURISDICTION	MGB	MAIN GROUND BAR
AIC	AMPERE INTERRUPTING CAPACITY	MG SET	MOTOR–GENERATOR SET
AL	ALUMINUM	MLO	MAIN LUGS ONLY
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	MOCP	MAXIMUM OVERCURRENT PROTECTION
AS/AF	AMPERE SWITCH / AMPERE FUSE	MPOE	MINIMUM POINT OF ENTRY
AT	AMPERE TRIP RATING OF BREAKER	MS	MOTION SENSOR
AUTO	AUTOMATIC	MSB	MAIN SWITCHBOARD
ATS	AUTOMATIC TRANSFER SWITCH	MTD	MOUNTED
AWG	AMERICAN WIRE GAUGE	MTS	MANUAL TRANSFER SWITCH
BMS	BUILDING MANAGEMENT SYSTEM	MV	MEDIUM VOLTAGE CABLE
C, CDT	CONDUIT	MW	MEGAWATTS
CATV	COMMUNITY ANTENNA TELEVISION	(N)	NEW
CB	CIRCUIT BREAKER	NECA	NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION
CEC	CALIFORNIA ELECTRICAL CODE	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
CFL	COMPACT FLUORESCENT	NIC	NOT IN CONTRACT
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED	NL	NIGHT LIGHT
CKT	CIRCUIT	NRTL	NATIONALLY RECOGNIZED TESTING LABORATORIES
cmil	CIRCULAR MIL	NTS	NOT TO SCALE
CO	CONDUIT ONLY w/PULL STRING	OC	ON CENTER
CSFM	CALIFORNIA STATE FIRE MARSHALL	OCPD	OVERCURRENT PROTECTIVE DEVICE
CT	CURRENT TRANSFORMER	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
CU	COPPER	OFOI	OWNER FURNISHED, OWNER INSTALLED
DET	DETAIL	PH, P	PHASE OR POLE
DISC	DISCONNECT	PB	PULL BOX
DIST	DISTRIBUTION	PF	POWER FACTOR
DWG	DRAWING	PFB	PROVIDE FOR FUTURE BREAKER
EC	ELECTRICAL CONTRACTOR	PIV	POST INDICATOR VALVE
EGC	EQUIPMENT GROUNDING CONDUCTOR	PLC	PROGRAMMABLE LOGIC CONTROLLERS
ELEV, EL	ELEVATION	PNL	PANEL
EM, EMERG	EMERGENCY	PoE	POWER OVER INTERNET
EMT	ELECTRICAL METALLIC TUBING	PV	PHOTOVOLTAICS
ENT	ELECTRICAL NONMETALLIC TUBING	PVC	POLYVINYL CHLORIDE
EOL	END OF LINE RESISTOR	PWR	POWER
EPO	EMERGENCY POWER OFF	(R)	RELOCATED
EQPT	EQUIPMENT	RCP	REFLECTED CEILING PLAN
EV	ELECTRIC VEHICLE	REC, RECPT	RECEPTACLE
EVSE	ELECTRIC VEHICLE SUPPLY EQUIPMENT	REQD	REQUIRED
EXH	EXHAUST	RGSC	RIGID GALVANIZED STEEL CONDUIT
(E)	EXISTING	RMC	RIGID METAL CONDUIT
(F)	FUTURE	RMS	ROOT–MEAN–SQUARE
FACP	FIRE ALARM CONTROL PANEL	SCADA	SUPERVISORY CONTROL AND DATA ACQUISITION
FBO	FURNISHED BY OTHERS	SCR	SILICON CONTROLLED RECTIFIER
FF	FINISHED FLOOR	SHLD	SHIELDED
FG	FINISHED GRADE	SPD	SURGE–PROTECTIVE DEVICE
FLA	FULL LOAD AMPS	SPECS	SPECIFICATIONS
FLEX	FLEXIBLE	SW	SWITCH
FLUOR	FLUORESCENT	T, XFMR	TRANSFORMER
FMC	FLEXIBLE METAL CONDUIT	TEMP	TEMPORARY
FMT	FLEXIBLE METAL TUBING	THHN	THERMOPLASTIC, HEAT RESISTANT CABLE, NYLON JACKET OUTER SHEATH
GEC	GROUNDING ELECTRODE CONDUCTOR		
GFCI	GROUND–FAULT CURRENT INTERRUPTER	THWN	THERMOPLASTIC, HEAT AND MOISTURE RESISTANT CABLE, NYLON JACKET OUTER SHEATH
GFPE	GROUND–FAULT PROTECTION OF EQUIPMENT		
GND	GROUND	TR	TAMPER–RESISTANT
HID	HIGH INTENSITY DISCHARGE	TS	TAMPER SWITCH
HP	HORSEPOWER	TSTAT	THERMOSTAT
HVAC	HEATING, VENTILATION & AIR CONDITIONING	TYP	TYPICAL
Hz	HERTZ (cycle per second)	UG	UNDERGROUND
IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS	UGPS	UNDERGROUND PULL SECTION
		UL	UNDERWRITERS LABORATORIES
IG	ISOLATED GROUND	UNO	UNLESS NOTED OTHERWISE
IMC	INTERMEDIATE METAL CONDUIT	UPS	UNINTERRUPTIBLE POWER SUPPLY
ISC, SC	SHORT CIRCUIT	USB	UNIVERSAL SERIAL BUS
ISOL	ISOLATED	VFD	VARIABLE FREQUENCY DRIVE
JBOX	JUNCTION BOX	V	VOLTS
kcmil	ONE THOUSAND CIRCULAR MILS	VA	VOLT–AMPERE
kV	KILOVOLTS	Vac	VOLTS ALTERNATING CURRENT
kW	KILOWATTS	Vdc	VOLTS DIRECT CURRENT
kVA	KILOVOLT–AMPERES	VNEM	VIRTUAL NET ENERGY METERING
LED	LIGHT–EMITTING DIODE	W	WATTS
LCP	LIGHTING CONTROL PANEL	W–hr	WATT–HOUR
LPG	LIQUEFIED PETROLEUM GAS	w/	WITH
LRC	LOCKED–ROTOR CURRENT	WP	WEATHERPROOF
LSIG	LONG–TIME, SHORT–TIME, INSTANTANEOUS & EQUIPMENT GROUND–FAULT PROTECTION	WPL	WEATHERPROOF LOCKING
		WPU	WEATHERPROOF WHILE IN USE
LTG	LIGHTING	WR	WEATHER RESISTANT
		(X)	REMOVE OR DEMO

OCCUPANCY & DAYLIGHTING SENSOR NOTES

1. OCCUPANCY SENSORS AND DAYLIGHTING SENSORS SYSTEMS OPERATION:
   - A. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND AIM SENSORS IN THE CORRECT LOCATION REQUIRED FOR COMPLETE AND PROPER VOLUMETRIC COVERAGE WITHIN THE RANGE OF COVERAGE(S) OF CONTROLLED AREAS PER THE MANUFACTURER'S RECOMMENDATIONS. ROOMS SHALL HAVE NINETY (90) TO ONE HUNDRED (100) PERCENT COVERAGE TO COMPLETELY COVER THE CONTROLLED AREA TO ACCOMMODATE OCCUPANCY HABITS OF SINGLE OR MULTIPLE OCCUPANTS AT ANY LOCATION WITHIN THE ROOM(S). THE LOCATIONS AND QUANTITIES OF SENSORS SHOWN ON THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE ONLY THE ROOMS THAT ARE TO BE PROVIDED WITH SENSORS. THE CONTRACTOR SHALL PROVIDE ADDITIONAL SENSORS IF REQUIRED TO PROPERLY AND COMPLETELY COVER THE RESPECTIVE ROOM.
   - B. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE A PRE– INSTALLATION MEETING WITH MANUFACTURER'S FACTORY AUTHORIZED REPRESENTATIVE, AT THE OWNER'S FACILITY, TO VERIFY PLACEMENT OF SENSORS AND INSTALLATION CRITERIA.
   - C. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAKE PROPER ADJUSTMENTS TO ASSURE OWNER'S SATISFACTION WITH THE OCCUPANCY SYSTEM. IF THE CONTRACTOR IS INCAPABLE TO MAKE PROPER ADJUSTMENTS, THE CONTRACTOR SHALL PROVIDE THE FACTORY STARTUP IN THAT THE MANUFACTURER'S RESPONSIBILITY TO VERIFY PROPER ADJUSTMENTS AND TRAIN OWNER'S PERSONNEL TO ENSURE OWNER'S SATISFACTION WITH THE OCCUPANCY SYSTEM.
   - D. PROPER JUDGMENT MUST BE EXERCISED IN EXECUTING THE INSTALLATION SO AS TO ENSURE THE BEST POSSIBLE INSTALLATION IN THE AVAILABLE SPACE AND TO OVERCOME LOCAL DIFFICULTIES DUE TO SPACE LIMITATIONS OR INTERFERENCE OF STRUCTURAL COMPONENTS. THE CONTRACTOR SHALL ALSO PROVIDE, AT THE OWNER'S FACILITY, THE TRAINING NECESSARY TO FAMILIARIZE THE OWNER'S PERSONNEL WITH THE OPERATION, USE, ADJUSTMENT, AND PROBLEM SOLVING DIAGNOSIS OF THE OCCUPANCY SENSING DEVICES AND SYSTEMS.
2. OCCUPANCY SENSORS AND DAYLIGHTING SENSORS COMMISSIONING:
   - A. UPON COMPLETION OF THE INSTALLATION, CONTRACTOR SHALL PROVIDE A COMPLETE SYSTEM COMMISSIONED BY THE MANUFACTURER'S FACTORY AUTHORIZED TECHNICIAN WHO WILL VERIFY ADJUSTMENTS AND SENSOR PLACEMENT TO ENSURE A TROUBLE–FREE OCCUPANCY–BASED LIGHTING CONTROL SYSTEM.
   - B. UPON COMPLETION OF THE SYSTEM FINE TUNING, THE CONTRACTOR SHALL ARRANGE FOR THE FACTORY AUTHORIZED TECHNICIAN TO PROVIDE THE PROPER TRAINING TO THE OWNER'S PERSONNEL IN THE ADJUSTMENT AND MAINTENANCE OF THE SENSORS.
   - C. LIGHTING CONTROLS COMMISSIONING, INSPECTIONS (INCLUDING STATE OF CALIFORNIA ENERGY COMMISSION INSPECTION FORMS AND APPLICATIONS), TESTING, PROGRAMMING AND TUNING OF LIGHTING CONTROL SENSORS, DEVICES AND COMPONENTS, ETC. SHALL BE INCLUDED IN THE LIGHTING CONTROL PACKAGE AND PRICE.ANY LABOR, TOOLS AND MATERIALS REQUIRED TO PROVIDE A COMPLETE LIGHTING CONTROL SYSTEM SHALL BE AT NO EXTRA COST TO THE OWNERS OR END–USERS.

ELECTRICAL SHEET INDEX

SHEET NO.	SHEET TITLE
E0.01	ELECTRICAL SHEET INDEX, ABBREVIATIONS AND NOTES
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ED2.01	POWER DEMO 1st FLOOR PLAN
ED3.01	LIGHTING DEMO 1st FLOOR PLAN
ED4.01	ELECTRICAL DEMO ROOF PLAN
E2.01	POWER 1st FLOOR PLAN
E3.01	LIGHTING 1st FLOOR PLAN
E4.01	ELECTRICAL ROOF PLAN
E5.01	ONE–LINE DIAGRAM
E6.01	ELECTRICAL PANEL SCHEDULES
E7.01	ELECTRICAL DETAILS

AGENCY APPROVAL:

REVIEWING AGENCIES
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ISSUE

Δ	DESCRIPTION	DATE

NOTES

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PROJECT:
LUTHER BURBANK HIGH SCHOOL CAFETERIA MODERNIZATION

SHEET NAME:
ELECTRICAL SHEET INDEX, ABBREVIATIONS AND NOTES

DSA SUBMITTAL

DATE: **09/18/2024**

CLIENT PROJ NO: **3186071000**

SHEET:
E0.01

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PLEASE RECYCLE

ELECTRICAL SYMBOL LEGEND

ALL SYMBOLS SHOWN IN THIS LEGEND ARE NOT NECESSARILY USED ON PLANS IF NOT REQUIRED.

POWER

SYMBOL	DESCRIPTION
	MAIN SWITCHBOARD OR DISTRIBUTION BOARD, PAD OR FLOOR MOUNTED AS NOTED.
	RECESSED MOUNTED LIGHTING OR DISTRIBUTION PANEL
	SURFACE MOUNTED LIGHTING OR DISTRIBUTION PANEL
	RECESSED TERMINAL CABINET WITH 3/4"C PLYWOOD BACKBOARD, DUPLEX RECEPTACLE & #6 CU GND, UNO.
	SURFACE MOUNTED TERMINAL CABINET WITH 3/4"C PLYWOOD BACKBOARD, DUPLEX RECEPTACLE & #6 CU GND, UNO.
T	DISTRIBUTION TRANSFORMER, MOUNTING AND SIZE AS NOTED
	NON-FUSED DISCONNECT SWITCH
	ENCLOSED CIRCUIT BREAKER DISCONNECT SWITCH
	FUSED DISCONNECT SWITCH; SIZE DISCONNECT AND FUSES PER UNIT LABEL
	MOTOR STARTER/CONTROLLER
	COMBINATION CIRCUIT BREAKER DISCONNECT/MOTOR STARTER
	COMBINATION FUSIBLE DISCONNECT/MOTOR CONTROLLER; PROVIDE FUSES PER MANUFACTURER'S REQUIREMENTS. N.F. INDICATES NON-FUSED
	POWER POINT OF CONNECTION
	DUPLEX RECEPTACLE OUTLET 20A, 125V, @ +16" TO BOTTOM OF BOX, UNO. SPLIT-WIRED CIRCUIT, TOP RECEPTACLE SWITCHED CONTROLLED.
A	DUPLEX RECEPTACLE OUTLET 20A, 125V, @ +16" TO BOTTOM OF BOX, UNO. SUBSCRIPT TEXT WHERE OCCURS, SEE RECEPTACLE SUBSCRIPT LEGEND BELOW.
	DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER TOP AND/OR SINK BACKSPLASH [1]
	ISOLATED GROUND DUPLEX RECEPTACLE, 20A, 125V @ +16" TO BOTTOM OF BOX, UNO.
	DEDICATED DUPLEX RECEPTACLE OUTLET 20A, 125V, @ +16" TO BOTTOM OF BOX, UNO.
	GFCI DUPLEX RECEPTACLE OUTLET 20A, 125V, @ +16" TO BOTTOM OF BOX, UNO.
	GFCI DUPLEX RECEPTACLE OUTLET MOUNTED ABOVE COUNTER TOP AND/OR SINK BACKSPLASH [1]
	ISOLATED GROUND GFCI DUPLEX RECEPTACLE 20A, 125V, @ +16" TO BOTTOM OF BOX, UNO.
	DEDICATED GFCI DUPLEX RECEPTACLE OUTLET 20A, 125V, @ +16" TO BOTTOM OF BOX, UNO.
	DOUBLE DUPLEX RECEPTACLE OUTLET 20A, 125V, @ +16" TO BOTTOM OF BOX, UNO.
	DOUBLE DUPLEX MOUNTED ABOVE COUNTER TOP AND/OR SINK BACKSPLASH [1]
	ISOLATED GROUNDED DOUBLE DUPLEX RECEPTACLE 20A, 125V @ +16" TO BOTTOM OF BOX, UNO.
	DEDICATED DOUBLE DUPLEX RECEPTACLE OUTLET 20A, 125V, @ +16" TO BOTTOM OF BOX, UNO.
	GFCI DOUBLE DUPLEX RECEPTACLE OUTLET 20A, 125V, @ +16" TO BOTTOM OF BOX, UNO
	GFCI DOUBLE DUPLEX RECEPTACLE OUTLET MOUNTED ABOVE COUNTER TOP AND/OR SINK BACKSPLASH [1]
	ISOLATED GROUND GFCI DOUBLE DUPLEX RECEPTACLE OUTLET 20A, 125V, @ +16" TO BOTTOM OF BOX, UNO.
	DEDICATED GFCI DOUBLE DUPLEX RECEPTACLE OUTLET 20A, 125V, @ +16" TO BOTTOM OF BOX, UNO.
	SPECIAL RECEPTACLE OUTLET, SIZE AND NEMA CONFIGURATION AS NOTED, MOUNTED @ +16" TO BOTTOM OF BOX, UNO.
	FLOOR MOUNTED DUPLEX RECEPTACLE, 20A, 125V FLUSH IN FINISHED FLOOR
	FLOOR MOUNTED DOUBLE DUPLEX RECEPTACLE, 20A, 125V FLUSH IN FINISHED FLOOR
	CEILING MOUNTED DUPLEX RECEPTACLE, 20A, 125V
	CEILING MOUNTED DOUBLE DUPLEX RECEPTACLE, 20A, 125V
	FLOOR MOUNTED COMBINATION DUPLEX RECEPTACLE AND TELECOM
	FLOOR MOUNTED COMBINATION DOUBLE DUPLEX RECEPTACLE AND TELECOM
	FLOOR MOUNTED COMBINATION POWER AND TELECOM WITH WHIP FOR PARTITION FURNITURE
	POWER AND TELECOM WITH WHIP FOR PARTITION FURNITURE
	WALL MOUNTED JUNCTION BOX – SIZE AS REQUIRED BY CODE
	CEILING JUNCTION BOX – SIZE AS REQUIRED BY CODE
	FLOOR MOUNTED JUNCTION BOX – SIZE AS REQUIRED BY CODE
	PLUGMOLD
	POWER POLE
	ELECTRIC VEHICLE CHARGING STATION, DUAL PORT & SINGLE PORT
$T	THERMAL OVERLOAD SWITCH
$M	MOTOR RATED SWITCH

RECEPTACLE SUBSCRIPTS (APPLIES TO ALL RECEPTACLES)

SYMBOL	DESCRIPTION
C	CONTROLLED/UNCONTROLLED [2]
LC	LOCKING COVER
TR	TAMPER-RESISTANT
U	USB (UNIVERSAL SERIAL BUS)
WP	WEATHERPROOF
WPU	WEATHERPROOF WHILE IN USE

FOOTNOTES:

[1] PROVIDE 44" MAX. TO TOP OF BOX AT AREAS WITH FORWARD ACCESSIBLE APPROACH KNEE CLEARANCE, OR PROVIDE 46" MAX. TO TOP OF BOX AT AREAS WITH PARALLEL ACCESSIBLE APPROACH (PER CBC 11B-308).

[2] FOR DUPLEX RECEPTACLES: ONE HALF IS CONTROLLED, AND ONE HALF IS UNCONTROLLED. PLACE CONTROLLED HALF AT BOTTOM. FOR DOUBLE DUPLEX RECEPTACLES: ONE DUPLEX IS CONTROLLED, AND ONE DUPLEX IS UNCONTROLLED. PLACE CONTROLLED DUPLEX AT RIGHT.

LIGHTING

SYMBOL	DESCRIPTION
	LED LUMINAIRE – T-BAR LAY-IN
	LED LUMINAIRE – RECESSED IN GYPBOARD
	LED LUMINAIRE – SURFACE
	LED LUMINAIRE – SUSPENDED
	LED STRIP LIGHT – SURFACE OR SUSPENDED
	DOWNLIGHT LUMINAIRE – RECESSED
	WALLWASH LUMINAIRE – RECESSED
	LUMINAIRE – SURFACE
	LUMINAIRE – WALL
	LUMINAIRE – PENDANT
	TRACK LIGHT – SUSPENDED OR SURFACE MOUNTED
	CONTINUOUS LINEAR LED TAPE OR LED COVE LIGHT
	HATCHED LUMINAIRE INDICATES AN EMERGENCY LUMINAIRE CONNECTED TO A EMERGENCY POWER DISTRIBUTION SYSTEM, OR INTEGRAL EMERGENCY BATTERY BACKUP.
	SINGLE FACE EXIT SIGN. SEE LIGHTING FIXTURE SCHEDULE FOR SPECIFICATION.
	DOUBLE FACE EXIT SIGN. SEE LIGHTING FIXTURE SCHEDULE FOR SPECIFICATION. DIRECTIONAL ARROW AS INDICATED ON PLANS. (CEILING OR WALL)
	COMBINATION EMERGENCY EXIT SIGN WITH DUAL HEAD LIGHTS WITH EMERGENCY BATTERY BACK-UP.
	BATTERY POWERED EMERGENCY EGRESS LUMINAIRE – SURFACE MOUNTED
	SPOT/FLOOD LUMINAIRE – GROUND MOUNTED. FOR BLDG WALL MOUNTED AS WELL.
	EXTERIOR POLE FIXTURE – SINGLE HEAD
	EXTERIOR POLE FIXTURE – TWIN HEAD
	EXTERIOR PATHWAY POST TOP POLE FIXTURE
	BOLLARD FIXTURE
	STEP LUMINAIRE

LIGHTING CONTROLS

SYMBOL	DESCRIPTION
$	SINGLE POLE TOGGLE SWITCH, 20A, 120-277V @ +46" TO TOP OF BOX, UNO [1].
$3	THREE WAY TOGGLE SWITCH 20A,120-277V @ +46" TO TOP OF BOX, UNO.
$a,b,c	SUBSCRIPTS "a,b,c" DESIGNATE THE QUANTITY OF SWITCHES AT EACH LOCATION (TYPICAL FOR ALL SWITCH TYPES).
$K	SINGLE POLE KEYED BARREL SWITCH 20A, 120-277 @ +46" TO TOP OF BOX, UNO.
	PUSH BUTTON
	WALL DIMMER SEE CONTROL DRAWINGS FOR TYPE
	DIGITAL WALL CONTROL OVERRIDE SWITCH. RUN CABLING BACK TO LIGHTING CONTROL PANEL
	WALL MOUNTED OCCUPANCY SENSOR. DUAL TECHNOLOGY, PASSIVE INFRA-RED OR ULTRASONIC.
OS	CEILING, OR PENDANT, MOUNTED OCCUPANCY SENSOR. DUAL TECHNOLOGY, PASSIVE INFRA-RED OR ULTRASONIC.
OS	CORNER MOUNT OCCUPANCY SENSOR. DUAL TECHNOLOGY, PASSIVE INFRA-RED OR ULTRASONIC.
DL	PHOTOCONTROL DAYLIGHT SENSOR.

TAGS & LEADERS

SYMBOL	DESCRIPTION
X	KEYNOTE SHOWN ON SAME SHEET
'XX' XX-Xx	LIGHT FIXTURE TAG: FIXTURE TAG – 'XX' – CIRCUIT NUMBER; PANEL – XX-Xx – SWITCH LEG
X	FEEDER DESIGNATION TAG
X	FOOD SERVICE EQUIPMENT DESIGNATION TAG
X / Ex.1	DETAIL DESIGNATION: TOP LETTER INDICATES DETAIL NUMBER, BOTTOM LETTER/NUMBER INDICATES SHEET NUMBER
RF X	MECHANICAL OR PLUMBING EQUIPMENT TAG
	BRACKET
	LEADERS

ONE LINE DIAGRAM

SYMBOL	DESCRIPTION
(N) PANEL "A"	PANEL IDENTIFICATION
100A 3P	CIRCUIT BREAKER
100A 3P	FUSED SWITCH
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
	GROUND
	UNDERGROUND TERMINATION SERVICE LUG
M	UTILITY METER WITH CURRENT TRANSFORMER COMPARTMENT METER SOCKET
M	CUSTOMER-OWNED MULTIFUNCTION METER WITH CURRENT TRANSFORMERS
	MOTOR
	TRANSFORMER WITH GROUND
	UFER GROUND
	BOND TO COLD WATER PIPE, GAS PIPE, BUILDING STEEL
	AUTOMATIC TRANSFER SWITCH
	NEUTRAL LINK
SPD	SURGE PROTECTIVE DEVICE

CIRCUITS

SYMBOL	DESCRIPTION
	STUB
	CONTINUATION
	CONDUIT RISER – UP
	CONDUIT DROP – DOWN
	CONDUIT CONCEALED IN CEILING OR WALL.
	CONDUIT CONCEALED IN UNDERFLOOR OR UNDERGROUND
	EXISTING CONDUIT TO REMAIN.
	CONDUIT & CONDUCTORS FOR LOW VOLTAGE MOTION SENSORS
	EXISTING CONDUIT & CONDUCTORS TO REMAIN FOR LOW VOLTAGE MOTION SENSORS OTHER THAN 12 AWG CU. NO TICKS INDICATE 2#12 CU, 1#12 CU GND, IN 1/2" CONDUIT.
	EXISTING CONDUIT AND/OR CONDUCTORS TO BE REMOVED. UNDERGROUND CONDUIT MAY BE ABANDONED IN PLACE.
	HOMERUN TO PANELBOARD OR TERMINAL CABINET WITH CONDUCTORS AS NOTED
#	CIRCUIT CONDUCTORS: LONG TICK INDICATES NEUTRAL CONDUCTOR; SHORT TICKES INDICATE PHASE CONDUCTORS; CURVED TICK INDICATES EQUIPMENT GROUNDING CONDUCTOR; ADDITIONAL CURVED TICK INDICATES ISOLATED GROUNDING CONDUCTOR. NUMBER BY TICKES INDICATE WIRE GAUGE OTHERS AS NOTED ON PLAN. NOTE: PROVIDE A CODE SIZED EQUIPMENT GROUNDING CONDUCTOR IN ALL CONDUITS FOR THIS PROJECT, WHETHER SHOWN ON PLAN OR NOT.
	FLEXIBLE CONDUIT, 6'-0" LONG MAX. WITH #12 CU GROUND, UNO.

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REGISTERED PROFESSIONAL ENGINEER RAMI S. ZEIDAN No. E 16762 Exp. 9/30/26 ELECTRICAL STATE OF CALIFORNIA

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3500 FLORIN RD
SACRAMENTO, CA 95823

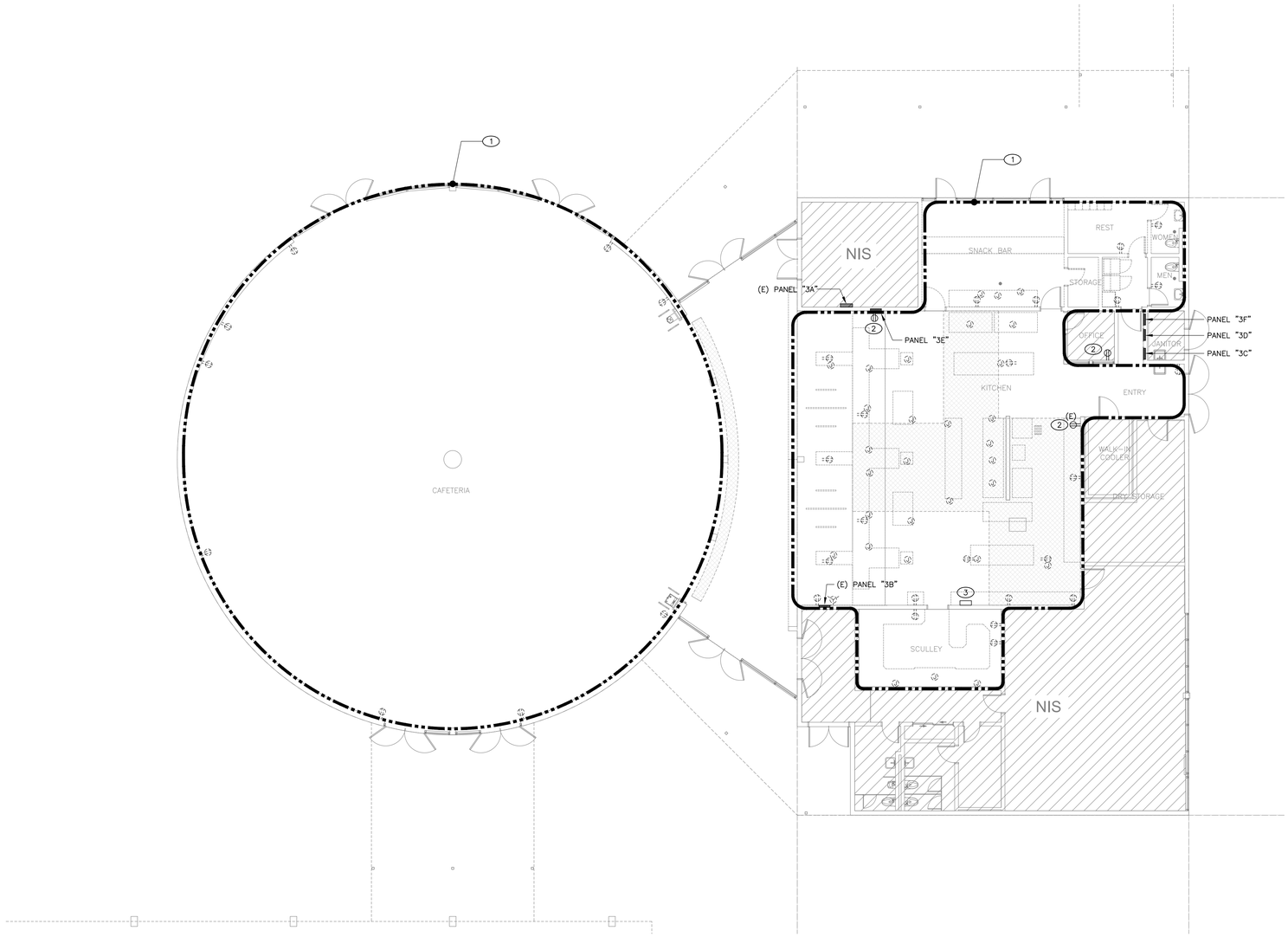
PROJECT:
LUTHER BURBANK HIGH SCHOOL CAFETERIA MODERNIZATION

SHEET NAME:
ELECTRICAL SYMBOL LEGEND

DSA SUBMITTAL

DATE: 09/18/2024 CLIENT PROJ NO: 3186071000

SHEET:
E0.02



KEY NOTES

1. DEMO EXISTING POWER APPARATUS ALONG WITH ASSOCIATED BRANCH CIRCUIT WIRING AND RACEWAYS IN THE SCOPE AREA BACK TO THE SOURCE. VERIFY EXTEND OF THE SCOPE AREA PRIOR TO START OF DEMOLITION WORK. REFER TO SHEET E0.01, GENERAL DEMO NOTES FOR ADDITIONAL DEMOLITION WORK REQUIREMENTS.
2. EXISTING POWER OUTLET TO REMAIN.
3. EXISTING TIMECLOCK FOR EXTERIOR LIGHTING TO REMAIN ALONG WITH ASSOCIATED CIRCUITRY.

GENERAL NOTES

A. FIELD-VERIFY EXISTING CONDITIONS PRIOR TO PERFORMING ANY WORK. NOTIFY ARCHITECT AND ENGINEER OF ANY CONFLICTS OR DISCREPANCIES.

PN

POWER DEMO 1st FLOOR PLAN | **E1** 1/8" = 1'-0"

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PROJECT:

LUTHER BURBANK HIGH SCHOOL CAFETERIA MODERNIZATION

SHEET NAME:

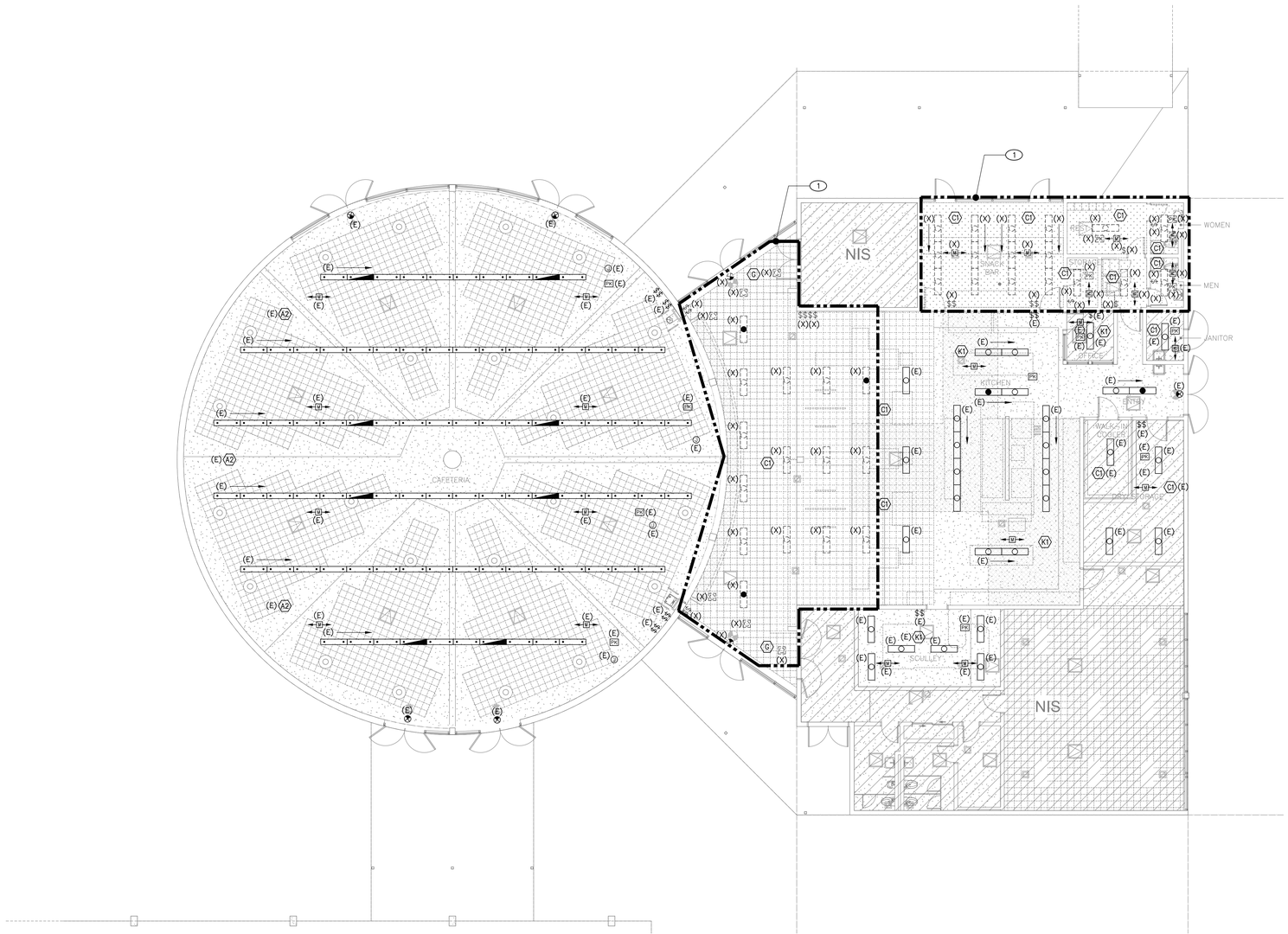
POWER DEMO 1st FLOOR PLAN

DSA SUBMITTAL

DATE: **09/18/2024** | CLIENT PROJ NO: **3186071000**

SHEET:

ED2.01



KEY NOTES

1. DEMO EXISTING LIGHTING DEVICES, CONTROLS AND ASSOCIATED BRANCH CIRCUIT WIRING IN SCOPE OF WORK AREA BACK TO THE SOURCE. REFER TO SHEET E0.01, GENERAL DEMO NOTES FOR ADDITIONAL DEMOLITION WORK REQUIREMENTS. ALL FIXTURES IDENTIFIED AS (E) ARE EXISTING TO REMAIN.

GENERAL NOTES

A. FIELD-VERIFY EXISTING CONDITIONS PRIOR TO PERFORMING ANY WORK. NOTIFY ARCHITECT AND ENGINEER OF ANY CONFLICTS OR DISCREPANCIES.

B. ONLY LIGHTING CONTROL DEVICES ARE SHOWN ON THE PLANS. THE CONTRACTOR SHALL PROVIDE SHOP DRAWING FOR LIGHTING CONTROL SYSTEM, SHOWING ALL COMPONENTS, LOCATIONS AND POINT-TO-POINT WIRING DIAGRAM FOR REVIEW AND APPROVAL. CONTRACTOR SHALL PROVIDE REQUIRED INTERCONNECTION COMPONENTS, PROGRAMMING, CONFIGURATIONS AND ADJUSTMENTS, FOR A COMPLETE AND OPERABLE SYSTEM. SEE OCCUPANCY AND DAYLIGHT SENSOR GENERAL NOTE ON SHEET E0.01

PN

LIGHTING DEMOLISHTION PLAN | **E1** 1/8" = 1'-0"

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PROJECT:
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SHEET NAME:
LIGHTING DEMO 1ST FLOOR PLAN

DSA SUBMITTAL

DATE: **09/18/2024** | CLIENT PROJ NO: **3186071000**

SHEET:

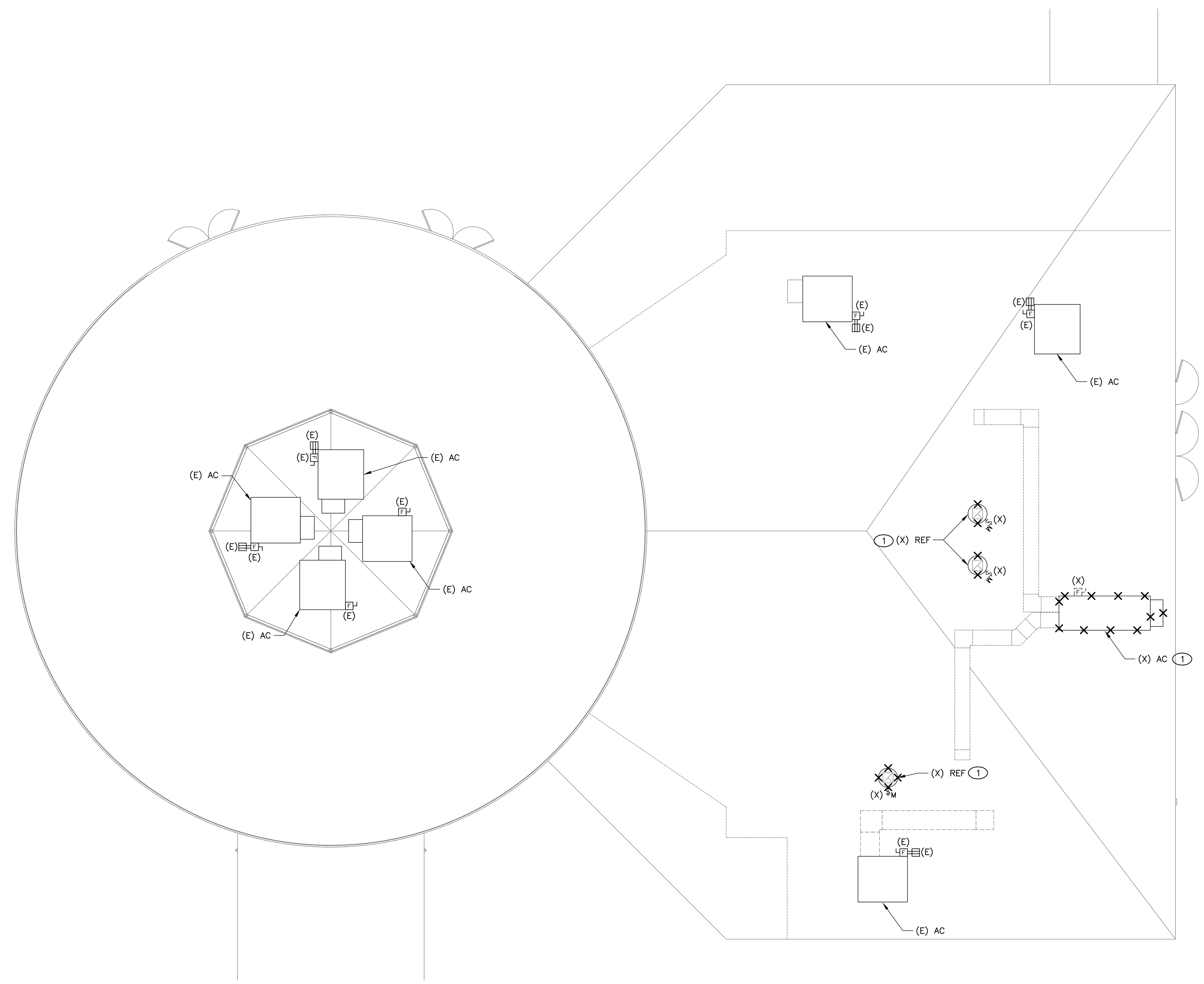
ED3.01

KEY NOTES

1. DISCONNECT EXISTING MECHANICAL EQUIPMENT AND REMOVE ALL ASSOCIATED WIRING AND RACEWAYS BACK TO SOURCE. REMOVE ASSOCIATED DISCONNECT SWITCHES AND SERVICE OUTLETS.

GENERAL NOTES

A. FIELD-VERIFY EXISTING CONDITIONS PRIOR TO PERFORMING ANY WORK. NOTIFY ARCHITECT AND ENGINEER OF ANY CONFLICTS OR DISCREPANCIES.



ELECTRICAL DEMO ROOF PLAN E1
1/8" = 1'-0"

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PROJECT:
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SHEET NAME:
ELECTRICAL DEMO ROOF PLAN

DSA SUBMITTAL

DATE: 09/18/2024 | CLIENT PROJ NO: 3186071000

SHEET:
ED4.01

ELECTRICAL SCHEDULE

ITEM NO.	DESCRIPTION	QTY.	VOLT.	PH	DIRECT	PLUG	NEMA	LOAD WATT	LOAD AMPS. DRAW	LOAD HP	OUTLET HEIGHT	REMARKS	NOTE(S)
E1	UNHEATED AIR CURTAIN	1EA.	120	1	X	-	-	-	3.4	1/6	+86"	PROVIDE J-BOX IN WALL INSTALL DOOR LIMIT SWITCH FOR INSTANT ON/OFF SWITCH, SEE C/FS8.2	
E3	PASS THROUGH WARMING & HOLDING CABINET	2EA.	208	1	-	X	6-15P	1500	15	-	+88"	PROVIDE DUPLEX RECEPTACLE IN WALL UNIT PROVIDED WITH CORD AND PLUG SET	
E4	PASS THROUGH REFRIGERATED CABINET	2EA.	120	1	-	X	5-15P	-	3.8	1/4	+88"	PROVIDE DUPLEX RECEPTACLE IN WALL UNIT PROVIDED WITH CORD AND PLUG SET	
E9	SERVING LINE LOAD CENTER	2EA.	120/208	1	X	-	-	-	100	-	+42"	PROVIDE J-BOX AT FLOOR CONNECT TO COUNTER LOAD CENTER- SERVING COUNTER TO BE FULLY WIRED AT FACTORY REFER TO FS9.2	
E10	WAREWASHER, RACK CONVEYOR	1EA.	480	3	X	-	-	-	51.7	-	+64"	PROVIDE J-BOX IN WALL CONNECT TO UNIT POWER CONNECTION INTERCONNECT LIMIT SWITCH AT END OF CLEAN DISH TABLE.	(9)
E11	GARBAGE DISPOSER W/ CONTROL PANEL	1EA.	208	1	X	-	-	-	12.1	-	+16"	PROVIDE J-BOX IN WALL CONNECT TO UNIT ELECTRICAL CONNECTION	
E12	REFRIGERATED GRAB N GO CASE	2EA.	208/240	1	-	X	6-20P	-	14.9	3/4	+88"	PROVIDE SIMPLEX RECEPTACLE IN WALL UNIT PROVIDED WITH CORD AND PLUG SET	
E13	HEATED GRAB N GO CASE	2EA.	208/240	1	X	-	-	5.35kW	22.3	3/4	+88"	PROVIDE SIMPLEX RECEPTACLE IN WALL UNIT PROVIDED WITH CORD AND PLUG SET	
E14	DISPLAY CASE, REFRIGERATED	2EA.	208/240	1	-	X	6-20P	-	14.9	3/4	+88"	PROVIDE SIMPLEX RECEPTACLE IN WALL UNIT PROVIDED WITH CORD AND PLUG SET	
E16	CASHIER STATION (DATA) AND (POWER) VERIFY W/ DISTRICT FURNISHED POS UNIT	1EA.	120	1	-	X	-	-	20	-	+0"	PROVIDE (2) LOW PROFILE PEDESTAL DATA PLUGS AND (2) ELECTRICAL OUTLETS RUN ELECTRICAL FROM OUTLET FLUSH MOUNTED TO FLOOR	
E20	COMBI OVEN, ELECTRIC POWER AND DATA	2EA.	480	3	X	-	-	67.9kW	100	-	+48"	PROVIDE J-BOX CONNECT TO UNIT ELECTRICAL AND DATA CONNECTION CONTRACTOR TO VERIFY ELECTRICAL CONNECTIONS WITH MANUFACTURER	(3)
E21	EXHAUST HOOD CONTROL POWER	1EA.	120	1	X	-	-	-	20	-	+104"	PROVIDE J-BOX CONNECT TO UNIT ELECTRICAL CONNECTION REFER TO FS5.2 FOR ELECTRICAL SCHEMATIC	(2)
E21.1	FIRE SUPPRESSION SYSTEM	1EA.	120	1	X	-	-	-	20	-	+104"	PROVIDE J-BOX CONNECT TO UNIT ELECTRICAL CONNECTION REFER TO FS5.4	(5)
E21.1	FIRE SYSTEM (REMOTE PULL STATION)	1EA.	-	-	X	-	-	-	-	-	+48"	EMPTY FLUSH MT'D. OCTAGONAL BOX (REMOTE PULL) SEE FS5.3	(4)
E21.1	TOUCH SCREEN USER INTERFACE/ ARTD (ROOM SENSOR) /CONTROL POWER	1EA.	120	1	-	-	-	-	5	-	+48"	CONNECT TO DEMANDAIRE CONTROL PANEL RECESS IN WALL REFER TO FS5.2 FOR ELECTRICAL SCHEMATIC	(2) (6)
E23	CHEFS COUNTER	4EA.	120	1	X	-	-	-	15EA.	-	+34"	PROVIDE (2) DOUBLE FACED PEDESTAL DUPLEX RECEPTACLE MT'D. ON COUNTER TOP (COMPONENT HARDWARE NO. R58-1020)(R71-0721)	(7)
E25	CHEFS COUNTER	4EA.	120	1	X	-	-	-	15EA.	-	+34"	PROVIDE (2) DOUBLE FACED PEDESTAL DUPLEX RECEPTACLE MT'D. ON COUNTER TOP (COMPONENT HARDWARE NO. R58-1020)(R71-0721)	(7)
E31	REACH -IN FREEZER	2EA.	208	1	-	X	-	-	12	-	+86"	PROVIDE DUPLEX RECEPTACLE FLUSH WITH WALL VERIFY VOLTAGE AND UTILITY REQUIREMENTS (OWNER FURNISHED EQUIPMENT)	(8)
E32	MOBILE WARMING CABINET UTILITY LOCATIONS	6EA.	120	1	-	X	-	-	20		+36"	PROVIDE DUPLEX RECEPTACLE FLUSH WITH WALL VERIFY VOLTAGE AND UTILITY REQUIREMENTS (OWNER FURNISHED EQUIPMENT)	(8)
E33	DOUBLE STACK CONVECTION OVEN ELECTRIC	3EA.	480	3	X	-	-	12.5KW	20	-	+36"	PROVIDE J-BOX CONNECT TO UNIT ELECTRICAL CONNECTION VERIFY VOLTAGE AND UTILITY REQUIREMENTS (OWNER FURNISHED EQUIPMENT)	(8)
E34	TILT SKILLET	1EA.	480	3	X	-	-	12.5KW	13.8	-	+36"	PROVIDE J-BOX CONNECT TO UNIT ELECTRICAL CONNECTION VERIFY VOLTAGE AND UTILITY REQUIREMENTS (OWNER FURNISHED EQUIPMENT)	(8)
E35	ICE MAKER	1EA.	-	-	-	-	-	-	-	-	-	ITEM POWER EXISTING TO REMAIN	(8)

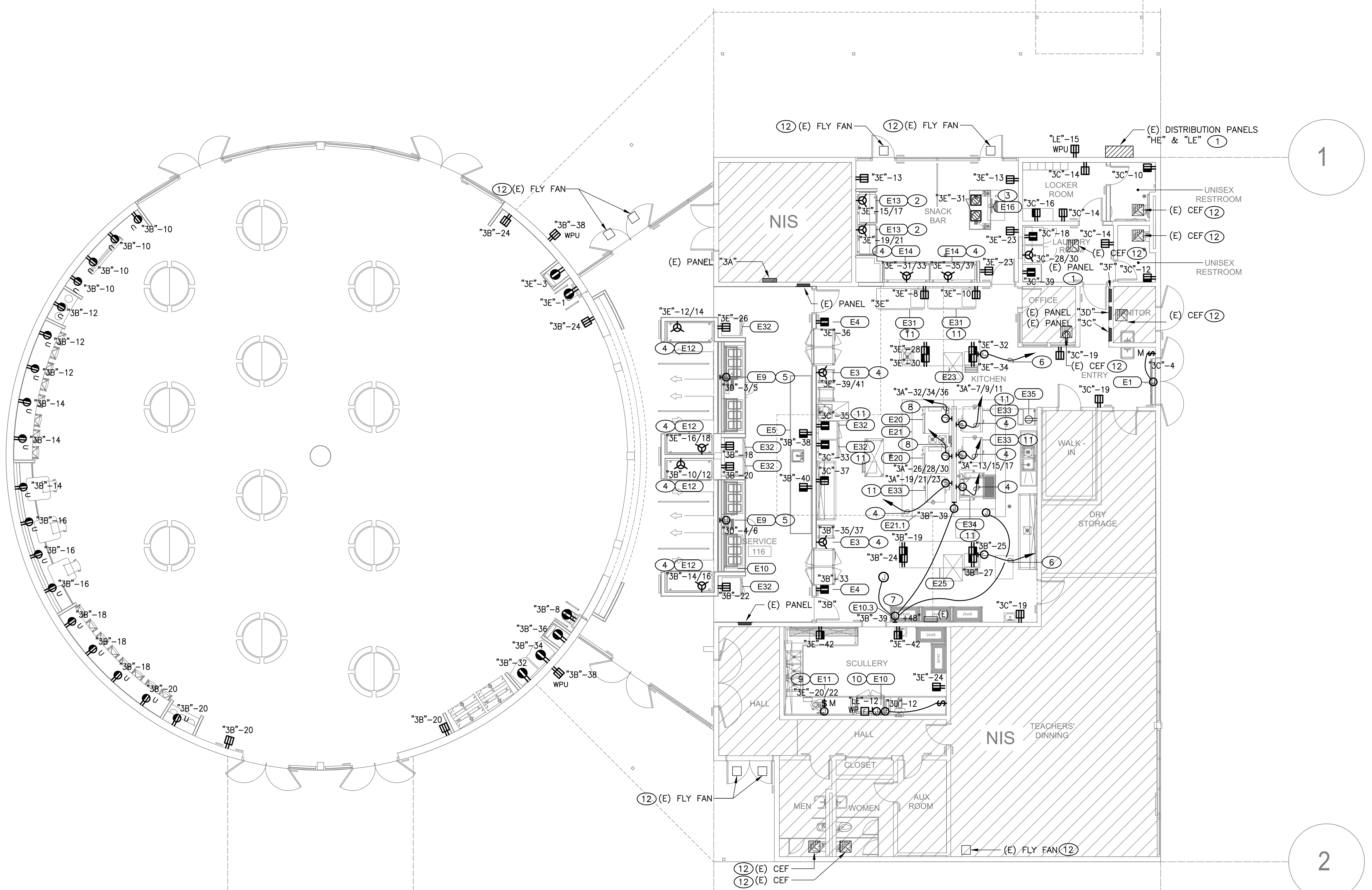
(2) INTERCONNECT TO HMI TOUCH SCREEN TO EXHAUST HOOD SEE FS5.2
(3) PROVIDE INTERLOCK WIRING FROM FIRE PROTECTION SYSTEMS TO ELEC. SHUNT TRIP BREAKERS
(4) PROVIDE EMPTY FLUSH MT'D. OCTAGONAL BOX @ +48" AFF. W/ EMPTY CONDUIT TO +2" ABOVE CEILING.
(5) VERIFY AND PROVIDE ALL J-BOXES, ELECTRICAL CONDUIT AND CONNECTIONS NEEDED FOR PROPER OPERATION / CONFIGURATION OF EXHAUST HOOD AND FIRE SYSTEM. REFER TO FS5.2/FS5.3 FOR DETAILS.
(6) ELECTRICAL CONTRACTOR TO PROVIDE J-BOX W/ EMPTY CONDUIT FROM +2" ABOVE CEILING IN WALL TO AMBIENT TEMPERATURE MONITOR AND HMI TOUCH SCREEN.
(7) MANUFACTURER OF CHEFS COUNTER TO PROVIDE CONDUIT FROM J-BOX LOCATION TO PEDESTAL OUTLETS
(8) CONTRACTOR TO VERIFY AND COORDINATE UTILITIES AND LOCATIONS WITH OWNER SUPPLIED EQUIPMENT AND ONSITE CONDITIONS
(9) PROVIDE SECOND J-BOX AND CONDUIT TO INTERCONNECT TO FAN ON ROOF

KEY NOTES

1. EXISTING ELECTRICAL PANEL TO REMAIN.
2. RUN 3/4" C. W/3#10 CU + 1#10 CU GND. TO CIRCUITS INDICATED. COORDINATE EXACT NEMA CONFIGURATION OF THE OUTLET WITH EQUIPMENT VENDOR.
3. PROVIDE (2) ELECTRICAL OUTLETS, FLUSH MOUNTED IN INDIVIDUAL CAST IRON FLOOR BOX WITH METAL COVER.
4. RUN 3/4" C. W/3#12 CU + 1#12 CU GND. TO CIRCUITS INDICATED. COORDINATE EXACT NEMA CONFIGURATION OF THE OUTLET WITH EQUIPMENT VENDOR.
5. PROVIDE CONNECTION TO SERVING LINE LOAD CENTER. RUN 2" C. W/3#1 CU + 1#8 CU GND. TO CIRCUITS INDICATED.
6. PROVIDE (4) INDIVIDUAL HOMERUNS FOR EACH CIRCUIT ON CHEF'S COUNTER.
7. TOUCH SCREEN USER INTERFACE. CONNECT TO DEMANDAIRE CONTROL PANEL AND ROOM SENSOR. FOLLOW INTERCONNECTION REQUIREMENTS ON FS5.2.
8. RUN 1" C. W/3#8 CU + 1#10 CU GND. TO CIRCUITS INDICATED. PROVIDE INTERLOCK WIRING FROM FIRE PROTECTION SYSTEMS TO SHUNT TRIP BREAKERS.
9. RUN 3/4" C. W/2#10 CU + 1#10 CU GND. TO CIRCUITS INDICATED. PROVIDE 2-POLE MOTOR-RATED DISCONNECT SWITCH. COORDINATE CONTROL SWITCH LOCATION AND EXACT ELECTRICAL REQUIREMENTS WITH EQUIPMENT VENDOR.
10. RUN 2" C. W/3#1/0 CU + 1#6 CU GND. TO CIRCUITS INDICATED. PROVIDE 200A/3P/175A FUSED DISCONNECT SWITCH IN NEMA 3R ENCLOSURE. VERIFY EXACT ELECTRICAL REQUIREMENTS WITH EQUIPMENT NAMEPLATE. PROVIDE SECOND J-BOX AND CONDUIT TO ROOF FAN FOR VENT FAN CONTROL. PROVIDE J-BOX IN WALL CONNECT TO UNIT POWER CONNECTION INTERCONNECT LIMIT SWITCH AT END OF CLEAN DISH TABLE.
11. VERIFY VOLTAGE AND UTILITY REQUIREMENTS OF ACTUAL EQUIPMENT WITH OWNER PRIOR TO ROUGH-IN OF ELECTRICAL (OWNER FURNISHED EQUIPMENT).
12. MAINTAIN EXISTING CIRCUIT AND CONTROL CONTINUITY.

GENERAL NOTES

A. ALL ELECTRICAL BRANCH PANELS SHOWN ARE EXISTING TO REMAIN, U.N.O.
B. CONTRACTOR SHALL PROVIDE UPDATED PANEL DIRECTORIES FOR ALL ELECTRICAL PANELS IN THE SCOPE OF WORK.
C. CONTRACTOR SHALL VERIFY FINAL LOCATIONS OF ALL KITCHEN EQUIPMENT PRIOR TO ROUGH-IN OF ELECTRICAL.



POWER 1ST FLOOR PLAN E1
1/8" = 1'-0"

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Job #: 24-2001

REGISTERED PROFESSIONAL ENGINEER RAMI S. ZEIDAN No. E 16762 Exp. 9/30/26 ELECTRICAL STATE OF CALIFORNIA

FACILITY:
LUTHER BURBANK HIGH SCHOOL
3500 FLORIN RD
SACRAMENTO, CA 95823

PROJECT:
LUTHER BURBANK HIGH SCHOOL CAFETERIA MODERNIZATION

SHEET NAME:
POWER 1ST FLOOR PLAN

DSA SUBMITTAL

DATE: 09/18/2024 CLIENT PROJ NO: 3186071000

SHEET:
E2.01

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS SHEET'S ORIGINAL PAGE SIZE

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PLEASE RECYCLE

LIGHTING FIXTURE SCHEDULE

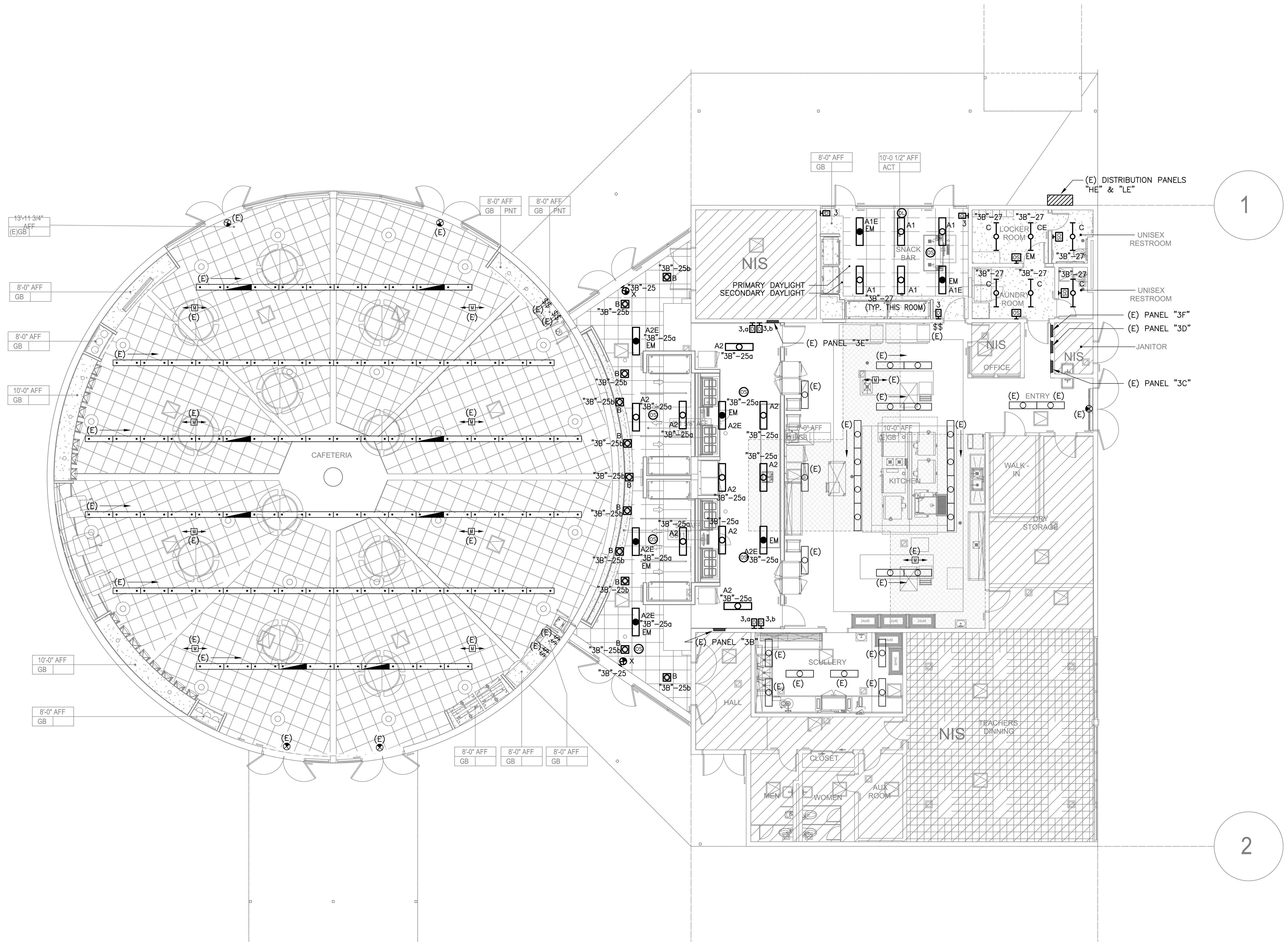
TYPE	MANUFACTURER & MODEL NUMBER	LAMP	LUMENS	COLOR TEMP	VOLTS	WATTS	MOUNTING	DESCRIPTION
A1	H.E. WILLIAMS AVX-4-L62/835-CPC-(L40)-DIM-UNV	LED	3,797	3500 K	120 V	32.5	SURFACE	4' LED SURFACE MOUNT FIXTURE WITH 0-10V DIMMING DRIVER AND CLEAR UV STABILIZED .150" POLYCARBONATE LENS
A1E	H.E. WILLIAMS AVX-4-L62/835-CPC-(L40)-EM/10WRM-DIM-UNV	LED	3,797	3500 K	120 V	32.5	SURFACE	SAME AS TYPE A1, BUT WITH REMOTE 10-WATT EMERGENCY BATTERY BACKUP
A2	H.E. WILLIAMS AVX-4-L62-835-CPC-(L47)-DIM-UNV	LED	4,415	3500 K	120 V	38	SURFACE	4' LED SURFACE MOUNT FIXTURE WITH 0-10V DIMMING DRIVER AND CLEAR UV STABILIZED .150" POLYCARBONATE LENS
A2E	H.E. WILLIAMS AVX-4-L62-835-CPC-(L47)-EM/10WRM-DIM-UNV	LED	4,415	3500 K	120 V	38	SURFACE	SAME AS TYPE A2, BUT WITH REMOTE 10-WATT EMERGENCY BATTERY BACKUP
B	H.E. WILLIAMS 6AR-L15-840-ATH-DIM-UNV-W-OF-CS-OD-R-F1	LED	1,281	4000 K	120 V	15.1	RECESSED	6" ADJUSTABLE DOWN LIGHT ROUND WITH 0-10V DIMMING DRIVER
C	H.E. WILLIAMS 75R-4-L50-835-(L32)-DIM-UNV	LED	3,021	3500 K	120 V	22	SURFACE	4' NARROW LED STRIP LIGHT WITH 0-10V DIMMING DRIVER AND ROUND DIFFUSE ACRYLIC LENS
CE	H.E. WILLIAMS 75R-4-L50-835-(L32)-EM/10WRM-DIM-UNV	LED	3,021	3500 K	120 V	22	SURFACE	SAME AS TYPE C, BUT WITH REMOTE 10-WATT EMERGENCY BATTERY BACKUP
X	EVENLITE RZR3-EM-G-U-WH-CN-SD	LED	18fL		120V	2.4	SURFACE	ILLUMINATED EXIT SIGN WITH EMERGENCY BATTERY BACKUP AND SELF DIAGNOSTICS.

NOTES:

1. COORDINATE LIGHT FIXTURE COLORS & FINISHES WITH ARCHITECT (TYPICAL).
2. EMERGENCY LIGHT FIXTURES SHALL BE PROVIDED WITH 90-MINUTE RUNTIME INTERGRATED BATTERY PACK WITH MINIMUM. PROVIDE UNSWITCHED HOT LEG FOR TRICKLE CHARGE TO EMERGENCY BATTERY PACK.
3. EXIT LIGHTS SHALL BE PROVIDED WITH WITH 90-MINUTE RUNTIME INTERGRATED BATTERY PACK. PROVIDE UNSWITCHED HOT LEG FOR TRICKLE CHARGE TO EMERGENCY BATTERY PACK.

GENERAL NOTES

A. PROVIDE UNSWITCHED HOT LEG CONNECTION TO ALL EMERGENCY FIXTURES AND EXIT SIGNS.



LIGHTING 1ST FLOOR PLAN E1 1/8" = 1'-0"

AGENCY APPROVAL:

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HMC Architects
3186-071-000
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Job #: 24-2001

REGISTERED PROFESSIONAL ENGINEER RAMI S. ZEIDAN No. E 16762 Exp. 9/30/26 ELECTRICAL STATE OF CALIFORNIA

FACILITY:
LUTHER BURBANK HIGH SCHOOL
3500 FLORIN RD
SACRAMENTO, CA 95823

PROJECT:
LUTHER BURBANK HIGH SCHOOL CAFETERIA MODERNIZATION

SHEET NAME:
LIGHTING 1ST FLOOR PLAN

DSA SUBMITTAL

DATE: 09/18/2024 | CLIENT PROJ NO: 3186071000

SHEET:
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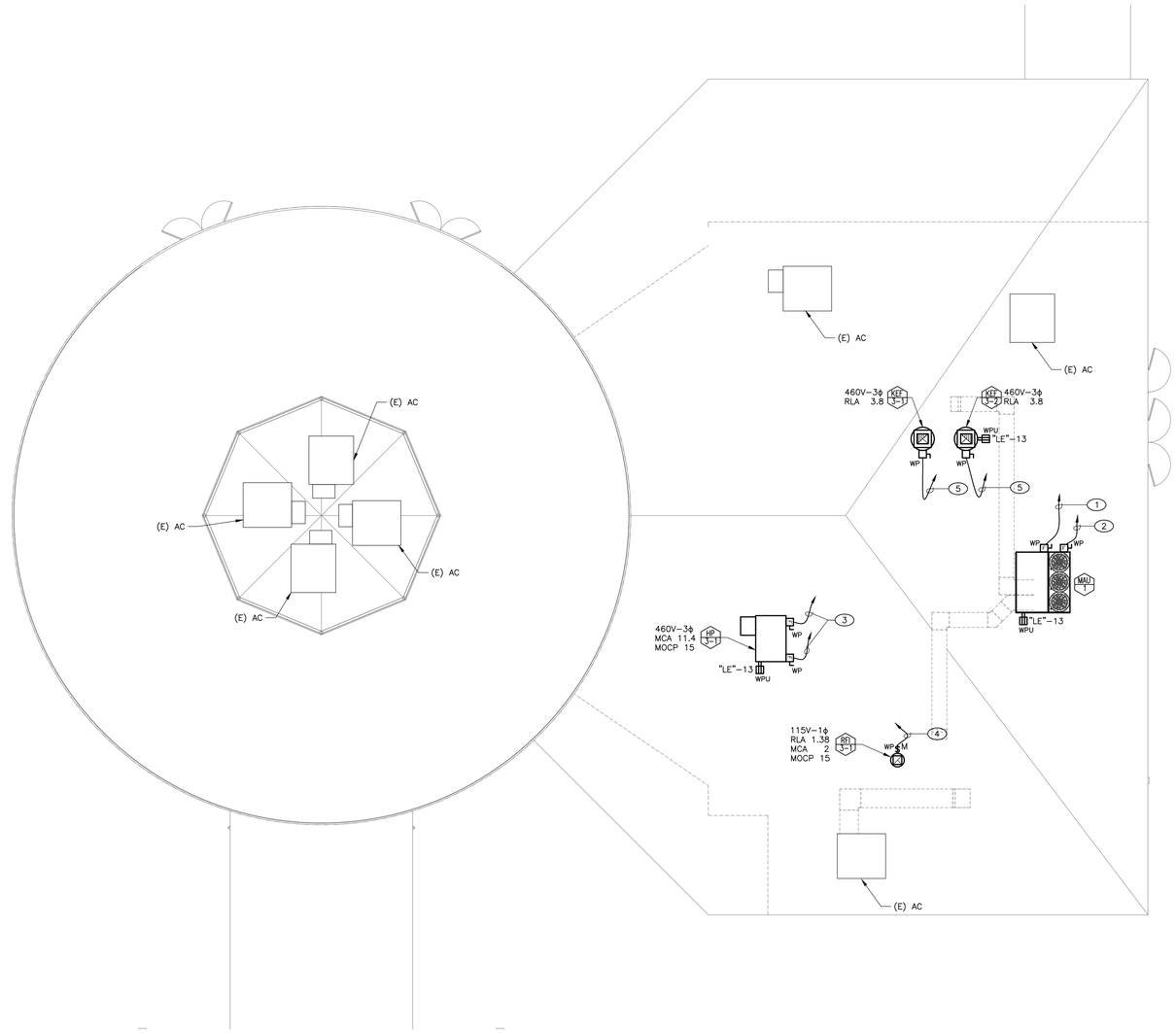

KEY NOTES

1. ROOFTOP MAU UNIT: 460V, 79.7 MCA, 90 MOCP. PROVIDE 100A/3P/90A FUSED DISCONNECT SWITCH IN NEMA 3R ENCLOSURE AND RUN INDIVIDUAL 1–1/4"C. w/3 #2 CU & 1 #8 CU GND. TO PANEL "HE".
2. AUX HEAT CONNECTION: 460V, 108.3 RLA, 135.4 MCA, 150 MOCP. PROVIDE 200A/3P/150A FUSED DISCONNECT SWITCH IN NEMA 3R ENCLOSURE AND RUN INDIVIDUAL 1–½"C. w/3 #1/0 CU & 1 #6 CU GND. TO PANEL "HE".
3. ROOFTOP UNIT HP 3–1: 460V, 11.4 MCA, 15 MOCP WITH POWERED EXHAUST 460V, 1.6 RLA, 15 MOCP. PROVIDE 30A/3P/15A FUSED DISCONNECT SWITCH IN NEMA 3R ENCLOSURE AND RUN ¾"C. w/3 #12 CU & 1 #12 CU GND. TO NEW BREAKER IN PANEL "HE" FOR MAIN UNIT CONNECTION. PROVIDE 30A/3P/15A FUSED DISCONNECT SWITCH IN NEMA 3R ENCLOSURE AND RUN ¾"C. w/3 #12 CU & 1 #12 CU GND. TO NEW BREAKER IN PANEL "HE" FOR POWERED EXHAUST CONNECTION.
4. INTERCONNECT FAN WITH ASSOCIATED CONTROLS IN THE SCULLERY BELOW. EXTEND POWER CIRCUIT "3D"–12 FROM BELOW.
5. PROVIDE 30A/3P/15A FUSED DISCONNECT SWITCH IN NEMA 3R ENCLOSURE AND RUN ¾"C. w/3 #12 CU & 1 #12 CU GND. TO NEW BREAKER IN PANEL "HE".

PN

ELECTRICAL ROOF PLAN **E1** 1/8" = 1'-0"

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Job #: 24-2001

REGISTERED PROFESSIONAL ENGINEER
RAMI S. ZEIDAN
No. E 16762
Exp. 9/30/26
ELECTRICAL
STATE OF CALIFORNIA

FACILITY:

LUTHER BURBANK HIGH SCHOOL
3500 FLORIN RD
SACRAMENTO, CA 95823

PROJECT:

LUTHER BURBANK HIGH SCHOOL CAFETERIA MODERNIZATION

SHEET NAME:

ELECTRICAL ROOF PLAN

DSA SUBMITTAL

DATE: **09/18/2024** | CLIENT PROJ NO: **3186071000**

SHEET:

E4.01

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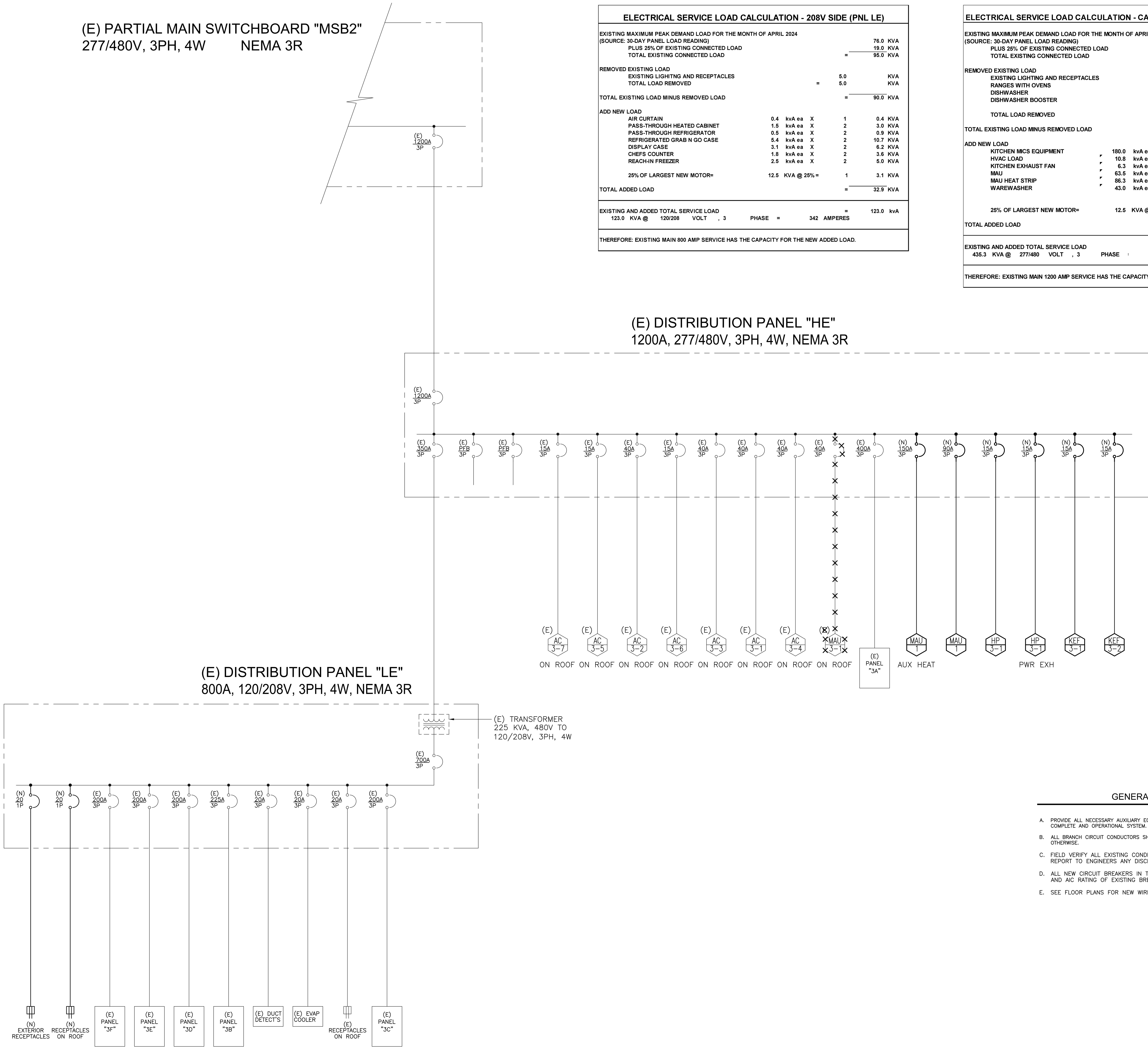

ELECTRICAL SERVICE LOAD CALCULATION - 208V SIDE (PNL LE)

EXISTING MAXIMUM PEAK DEMAND LOAD FOR THE MONTH OF APRIL 2024							
(SOURCE: 30-DAY PANEL LOAD READING)						76.0	KVA
PLUS 25% OF EXISTING CONNECTED LOAD						19.0	KVA
TOTAL EXISTING CONNECTED LOAD					=	95.0	KVA
REMOVED EXISTING LOAD							
EXISTING LIGHITNG AND RECEPTACLES					5.0		KVA
TOTAL LOAD REMOVED				=	5.0		KVA
TOTAL EXISTING LOAD MINUS REMOVED LOAD					=	90.0	KVA
ADD NEW LOAD							
AIR CURTAIN	0.4	kvA ea	X	1		0.4	KVA
PASS-THROUGH HEATED CABINET	1.5	kvA ea	X	2		3.0	KVA
PASS-THROUGH REFRIGERATOR	0.5	kvA ea	X	2		0.9	KVA
REFRIGERATED GRAB N GO CASE	5.4	kvA ea	X	2		10.7	KVA
DISPLAY CASE	3.1	kvA ea	X	2		6.2	KVA
CHEFS COUNTER	1.8	kvA ea	X	2		3.6	KVA
REACH-IN FREEZER	2.5	kvA ea	X	2		5.0	KVA
25% OF LARGEST NEW MOTOR=	12.5	KVA @ 25% =		1		3.1	KVA
TOTAL ADDED LOAD					=	32.9	KVA
EXISTING AND ADDED TOTAL SERVICE LOAD					=	123.0	kvA
123.0 KVA @ 120/208 VOLT , 3 PHASE =					342	AMPERES	

THEREFORE: EXISTING MAIN 800 AMP SERVICE HAS THE CAPACITY FOR THE NEW ADDED LOAD.

ELECTRICAL SERVICE LOAD CALCULATION - CAFETERIA BLDG (PNL HE)

EXISTING MAXIMUM PEAK DEMAND LOAD FOR THE MONTH OF APRIL 2024							
(SOURCE: 30-DAY PANEL LOAD READING)						94.8	KVA
PLUS 25% OF EXISTING CONNECTED LOAD						23.7	KVA
TOTAL EXISTING CONNECTED LOAD					=	118.5	KVA
REMOVED EXISTING LOAD							
EXISTING LIGHTING AND RECEPTACLES					5.0		KVA
RANGES WITH OVENS					22.5		
DISHWASHER					10.0		
DISHWASHER BOOSTER					45.0		
TOTAL LOAD REMOVED				=	82.5		KVA
TOTAL EXISTING LOAD MINUS REMOVED LOAD					=	36.0	KVA
ADD NEW LOAD							
KITCHEN MICS EQUIPMENT	180.0	kvA ea	X	1		180.0	KVA
HVAC LOAD	10.8	kvA ea	X	1		10.8	KVA
KITCHEN EXHAUST FAN	6.3	kvA ea	X	2		12.6	KVA
MAU	63.5	kvA ea	X	1		63.5	KVA
MAU HEAT STRIP	86.3	kvA ea	X	1		86.3	KVA
WAREWASHER	43.0	kvA ea	X	1		43.0	KVA
25% OF LARGEST NEW MOTOR=	12.5	KVA @ 25%		1		3.1	KVA
TOTAL ADDED LOAD					=	399.3	KVA
EXISTING AND ADDED TOTAL SERVICE LOAD					=	435.3	kvA
435.3 KVA @ 277/480 VOLT , 3 PHASE				524	AMPERES		

THEREFORE: EXISTING MAIN 1200 AMP SERVICE HAS THE CAPACITY FOR THE NEW ADDED LOAD.

GENERAL NOTES

A. PROVIDE ALL NECESSARY AUXILIARY EQUIPMENT AND ACCESSORIES REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.

B. ALL BRANCH CIRCUIT CONDUCTORS SHALL BE COPPER, UNLESS SPECIFIED OTHERWISE.

C. FIELD VERIFY ALL EXISTING CONDITIONS, PRIOR TO ANY WORKS, AND REPORT TO ENGINEERS ANY DISCREPANCIES.

D. ALL NEW CIRCUIT BREAKERS IN THE SWITCHBOARD SHALL MATCH TYPE AND AIC RATING OF EXISTING BREAKERS IN THE SWITCHBOARD.

E. SEE FLOOR PLANS FOR NEW WIRING INFORMATION.

AGENCY APPROVAL:

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LUTHER BURBANK HIGH SCHOOL
3500 FLORIN RD
SACRAMENTO, CA 95823

PROJECT:
LUTHER BURBANK HIGH SCHOOL CAFETERIA MODERNIZATION

SHEET NAME:
ONE LINE DIAGRAM

DSA SUBMITTAL

DATE: **09/18/2024** | CLIENT PROJ NO: **3186071000**

SHEET:
E5.01

IF THIS LINE BROWN ABOVE IS LESS THAN 1" THEN ADJUST ALL SHEETS ORIGINAL PAGE SIZE

(E) PANEL "3E"

120/208 Volt, 3 Phase, 4 Wire
225 Amp BUS CU.
Amp MCB
225 Amp MLO

10 KAIC Rating
SURFACE Mounted
NEMA 1 Type

CKT.	BKR	DESCRIPTION	PHASE SUMMARY (WATTS) A	B	C		A	B	C	DESCRIPTION	BKR	CKT.
1	(N) 20/1	DRINKING FOUNTAIN [1]	1,500							SPARE	15/3	2
3	(N) 20/1	WENDING MACHINE - CAFETERIA [1]		1,500						SPARE	-	4
5	20/1	(E) IDF			1,920					SPARE	-	6
7	15/3	(E) OLD DISP EAST WALL	1,440							**SPARE**	**(N) 20/1**	8
9	-	(E) OLD DISP EAST WALL		1,440						**SPARE**	**(N) 20/1**	10
11	-	(E) OLD DISP EAST WALL			1,440				1,550	**REFRIGERATED GRAB-N-GO #1**	**(N) 20/2**	12
13	(N) 20/1	SNAK BAR OUTLETS	360				1,550			-	-	14
15	(N) 30/2	HEATED GRAB-N-GO CASE #1		2,680				1,550		**REFRIGERATED GRAB-N-GO #2**	**(N) 20/2**	16
17	-	-			2,680				1,550	-	-	18
19	(N) 30/2	HEATED GRAB-N-GO CASE #2	2,680				1,258			**GARBAGE DISPOSAL SCULLERY**	**(N) 20/2**	20
21	-	-		2,680				1,258		-	-	22
23	(N) 20/1	SNAK BAR OUTLETS			360				1,920	**SCULLERY OUTLETS**	**(N) 20/1**	24
25	15/3	(E) LOAD					1,920			**WARMING CABINET REC**	**(N) 20/1**	26
27	-	(E) LOAD						1,200		**CHEFS COUNTER REC**	**(N) 20/1**	28
29	-	(E) LOAD							1,200	**CHEFS COUNTER REC**	**(N) 20/1**	30
31	(N) 20/2	REFRIGERATED DISPLAY CASE #1	1,550				1,200			**CHEFS COUNTER REC**	**(N) 20/1**	32
33	-	-		1,550				1,200		**CHEFS COUNTER REC**	**(N) 20/1**	34
35	(N) 20/2	REFRIGERATED DISPLAY CASE #2			1,550				1,500	**PASS-THROUGH CABINET**	**(N) 20/1**	36
37	-	-	1,550				2,880			(E) SPEED LITE SANDWICH PR.	30/2	38
39	(N) 20/2	PASS-THROUGH REFRIGERATOR		750				2,880		-	-	40
41	-	-			750				360	**SCULLERY OUTLETS**	**(N) 20/1**	42

PHASE TOTALS

A	B	C
17,888	18,688	16,760

PANEL AND CIRCUIT BREAKER NOTES:
[1] PROVIDE GFCI CIRCUIT BREAKER

DEMAND LOADS		
LIGHTING / CONTINUOUS LOAD x 125%		Watts
RECEPTACLES / OTHER x 100%	53,356	Watts
LARGEST MOTOR x 25%		Watts
TOTAL DEMAND LOADS	53,356	Watts
TOTAL DEMAND AMPS	148	AMPS

(E) PANEL "3B"

120/208 Volt, 3 Phase, 4 Wire
225 Amp BUS CU.
Amp MCB
225 Amp MLO

10 KAIC Rating
SURFACE Mounted
NEMA 1 Type

CKT.	BKR	DESCRIPTION	PHASE SUMMARY (WATTS) A	B	C		A	B	C	DESCRIPTION	BKR	CKT.
1	20/1	(E) CAFETERIA LIGHTS	1,440				1,440			(E) CAFETERIA LIGHTS	20/1	2
3	20/1	(E) CAFETERIA LIGHTS		1,440				1,440		(E) CAFETERIA LIGHTS	20/1	4
5	20/1	(E) CAFETERIA LIGHTS			1,440				1,440	(E) CAFETERIA LIGHTS	20/1	6
7	20/1	(E) TEACHER WORK RM PLUGS	1,920				1,500			**DRINKING FOUNTAIN [2]**	**(N) 20/1**	8
9	20/1	(E) TEACHER WORK RM PLUGS		1,920				1,550		**REFRIGERATED GRAB-N-GO #3**	**(N) 20/2**	10
11	20/1	(E) MULTI USE PLUGS			1,920				1,550	-	-	12
13	20/1	(E) COPY MACHINE	1,920				1,550			**REFRIGERATED GRAB-N-GO #4**	**(N) 20/2**	14
15	20/1	(E) COPY MACHINE		1,920				1,550		-	-	16
17	20/1	(E) COPY MACHINE			1,920				1,920	**WARMING CABINET REC**	**(N) 20/1**	18
19	(N) 20/1	CHEFS COUNTER REC	1,200				1,920			**WARMING CABINET REC**	**(N) 20/1**	20
21	20/1	(E) COPY MACHINE		1,920				1,920		**WARMING CABINET REC**	**(N) 20/1**	22
23	20/1	(E) COPY MACHINE			1,920				1,200	**CHEFS COUNTER REC**	**(N) 20/1**	24
25	(N) 20/1	CHEFS COUNTER REC	1,200				1,440			(E) REC & EMERG. LTS	20/1	26
27	(N) 20/1	CHEFS COUNTER REC		1,200				1,920		(E) P.A. REC SE DINING RM	20/1	28
29	20/1	(E) EXIT LTS & REC DINNING			1,440				1,920	(E) REC & RADIO DINING RM	20/1	30
31	20/1	(E) EXIT LIGHTS	800				1,500			WENDING MACHINE - CAFETERIA [2]	(N) 20/1	32
33	(N) 20/1	PASS-THROUGH REFRIGERATOR		458				1,500		WENDING MACHINE - CAFETERIA [2]	(N) 20/1	34
35	(N) 20/2	PASS-THROUGH CABINET			750				1,500	WENDING MACHINE - CAFETERIA [2]	(N) 20/1	36
37	-	-	750				180			**SINK COUNTER REC**	**(N) 20/1**	38
39	(N) 20/1	DEMANDAIRE PANEL [1]		500				180		**SINK COUNTER REC**	**(N) 20/1**	40
41	30/1	SPARE							1,920	(E) CRESCORE (WARMER)	20/1	42

PHASE TOTALS

A	B	C
18,760	19,418	20,840

PANEL AND CIRCUIT BREAKER NOTES:
[1] PAINT BREAKER RED AND PROVIDE WITH LOCK-ON DEVICE
[2] PROVIDE GFCI CIRCUIT BREAKER

DEMAND LOADS		
LIGHTING / CONTINUOUS LOAD x 125%	14,400	Watts
RECEPTACLES / OTHER x 100%	47,498	Watts
LARGEST MOTOR x 25%		Watts
TOTAL DEMAND LOADS	61,898	Watts
TOTAL DEMAND AMPS	172	AMPS

(E) PANEL "LE"

120/208 Volt, 3 Phase, 4 Wire
800 Amp BUS CU.
700 Amp MCB CKT. 1

EXISTING KAIC Rating
SURFACE Mounted
NEMA 3R Type

CKT.	BKR	DESCRIPTION	PHASE SUMMARY (WATTS) A	B	C		A	B	C	DESCRIPTION	BKR	CKT.
3	200/3	(E) PANEL "3C"	15,390							(E) SPARE	200/3	4
-	-	-		16,026						-	-	
-	-	-			12,830					-	-	
5	20/1	(E) SPARE								(E) ROOF GFI RECPT	20/1	6
7	20/1	(E) SPARE								(E) EVAPORATIVE COOLER	20/1	8
9	20/1	(E) SPARE								(E) DUCT DETECTORS	20/1	10
11	PFB	SPACE								SPACE	PFB	12
-	PFB	SPACE								SPACE	PFB	-
-	PFB	SPACE								SPACE	PFB	-
13	(N) 20/1	ROOF SERVICE OUTLETS	360							SPACE	PFB	14
-	PFB	SPACE								SPACE	PFB	-
-	PFB	SPACE								SPACE	PFB	-
15	PFB	SPACE								SPACE	PFB	16
-	PFB	SPACE								SPACE	PFB	-
-	(N) 20/1	EXTERIOR OUTLET			180					SPACE	PFB	-
17	200/3	(E) SPARE								SPACE	PFB	18
-	-	-								SPACE	PFB	-
-	-	-								SPACE	PFB	-
19	200/3	(E) PANEL "3B"	17,680				12,742			(E) PANEL "3D"	200/3	20
-	-	-		17,918				28,956		-	-	-
-	-	-			19,340				28,530	-	-	-
21	200/3	(E) PANEL "3E"	16,388				5,040			(E) PANEL "3F"	200/3	22
-	-	-		17,188				5,040		-	-	-
-	-	-			16,780				5,040	-	-	-

PHASE TOTALS

A	B	C
67,600	85,128	82,700

PANEL AND CIRCUIT BREAKER NOTES:
[1]

DEMAND LOADS		
LIGHTING / CONTINUOUS LOAD x 125%		Watts
RECEPTACLES / OTHER x 100%	235,428	Watts
LARGEST MOTOR x 25%		Watts
TOTAL DEMAND LOADS	235,428	Watts
TOTAL DEMAND AMPS	654	AMPS

(E) PANEL "3F" [1]

120/208 Volt, 3 Phase, 4 Wire
225 Amp BUS CU.
Amp MCB
225 Amp MLO

10 KAIC Rating
SURFACE Mounted
NEMA 1 Type

CKT.	BKR	DESCRIPTION	PHASE SUMMARY (WATTS) A	B	C		A	B	C	DESCRIPTION	BKR	CKT.
1	15/3	(E) EXH HOOD #1 OVER STOVES								(E) EXH HOOD #2 OVER STOVE	15/3	2
3	-	-								-	-	4
5	-	-								-	-	6
7	15/3	(E) COMPRESSOR WALK-IN REF								(E) LOAD	15/3	8
9	-	-								-	-	10
11	-	-								-	-	12
13	15/3	(E) LOAD								(E) LOAD	15/3	14
15	-	-								-	-	16
17	-	-								-	-	18
19	15/3	(E) LOAD								(E) LOAD	15/3	20
21	-	-								-	-	22
23	-	-								-	-	24
25	15/3	(E) EXT DISCONNECT W. WALL DOOR								-	20/3	26
27	-	-								-	-	28
29	-	-								-	-	30
31	15/3	(E) LOAD								(E) LOAD	15/3	32
33	-	-								-	-	34
35	-	-								-	-	36
37	20/1	(E) LOAD								(E) LOAD	20/1	38
39	20/1	(E) LOAD								(E) LOAD	20/1	40
41	20/1	(E) LOAD								(E) LOAD	20/1	42

PHASE TOTALS

A	B	C

PANEL AND CIRCUIT BREAKER NOTES:
[1] MULTIPLE CIRCUITS SHARING THE SAME CONDUIT AND NEUTRAL SHALL HAVE HANDLE TIES AT BREAKERS AND WIRE IN PANEL TIES PER CEC 210.4.
[2]

DEMAND LOADS		
LIGHTING / CONTINUOUS LOAD x 125%		Watts
RECEPTACLES / OTHER x 100%		Watts
LARGEST MOTOR x 25%		Watts
TOTAL DEMAND LOADS		Watts
TOTAL DEMAND AMPS		AMPS

(E) PANEL "3C"

120/208 Volt, 3 Phase, 4 Wire
225 Amp BUS CU.
Amp MCB
225 Amp MLO

10 KAIC Rating
SURFACE Mounted
NEMA 1 Type

CKT.	BKR	DESCRIPTION	PHASE SUMMARY (WATTS) A	B	C		A	B	C	DESCRIPTION	BKR	CKT.
1	20/1	(E) #6 WARMER	1,920				1,920			(E) FOOD WARMERS, SNACK BAR	20/1	2
3	20/1	SPARE						408		**AIR CURTAIN**	**(N) 20/1**	4
5	20/1	SPARE								SPARE	20/1	6
7	20/1	SPARE								SAPRE	20/1	8
9	20/1	SPARE						180		**RESTROOM 1 REC**	**(N) 20/1**	10
11	20/1	SPARE							180	**RESTROOM 2 REC**	**(N) 20/1**	12
13	20/1	SPARE					540			**LOCKER ROOM REC**	**(N) 20/1**	14
15	20/1	(E) WARMER #3 & REFRIG. #1		1,920				180		**LOCKER ROOM REC**	**(N) 20/1**	16
17	(N) 20/1	CONVINIENCE OUTLETS			540				1,600	WASHER	(N) 20/1	18
19	20/1	(E) REFRIGERATOR & JUICER	1,920				1,920			(E) #8 WARMERS	20/1	20
21	20/1	(E) REACH-IN BOX		1,920				1,920		(E) REFRIGERATOR N. WALL	20/1	22
23	30/2	(E) SPARE							1,920	(E) NEW WARMER #7	20/1	24
25	-	-					1,920			(E) LOAD	20/1	26
27	(N) 20/1	PASS-THROUGH REFRIGERATOR		458					1,600	**DRYER**	**(N) 30/2**	28
29	(N) 20/2	PASS-THROUGH CABINET			750				1,600	-	-	30
31	-	-	750				1,920			(E) ICE MAKER	20/1	32
33	(N) 20/1	WARMING CABINET REC		1,920				1,920		(E) LOAD	20/1	34
35	(N) 20/1	WARMING CABINET REC			1,920				1,920	(E) LOAD	20/1	36
37	(N) 20/1	KITCHEN COUNTER REC	180				2,400			(E) LOAD	30/3	38
39	(N) 20/1	REFRIGERATOR - LAUNDRY		1,200				2,400		-	-	40
41	20/1	(E) SPARE							2,400	-	-	42

PHASE TOTALS

A	B	C
15,390	16,026	12,830

PANEL AND CIRCUIT BREAKER NOTES:
[1]

DEMAND LOADS		
LIGHTING / CONTINUOUS LOAD x 125%		Watts
RECEPTACLES / OTHER x 100%	44,246	Watts
LARGEST MOTOR x 25%		Watts
TOTAL DEMAND LOADS	44,246	Watts
TOTAL DEMAND AMPS	123	AMPS

(E) PANEL "3A"

277/480 Volt, 3 Phase, 4 Wire
400 Amp BUS CU.
400 Amp MCB

50 KAIC Rating
SURFACE Mounted
NEMA 1 Type

CKT.	BKR	DESCRIPTION	PHASE SUMMARY (WATTS) A	B	C		A	B	C	DESCRIPTION	BKR	CKT.
1	15/3	STOVE								SPARE	20/3	2
3	-	-								-	-	4
5	-	-								-	-	6
7	(N) 20/3	DOUBLE-STACK OVEN [1]	4,167							STEAMER	30/3	8
9	-	-		4,167						-	-	10
11	-	-			4,167					-	-	12
13	(N) 20/3	DOUBLE-STACK OVEN [1]	4,167							TILT FRYER	30/3	14
15	-	-		4,167						-	-	16
17	-	-			4,167					-	-	18
19	(N) 20/3	DOUBLE-STACK OVEN [1]	4,167							HW BOOSTER J CLOSET	40/3	20
21	-	-		4,167						-	-	22
23	-	-			4,167					-	-	24
25	30/3	SPARE					7,467			COMBI OVEN [1]	(N) 40/3	26
27	-	-						7,467		-	-	28
29	-	-							7,467	-	-	30
31	15/3	SPARE					7,467			COMBI OVEN [1]	(N) 40/3	32
33	-	-						7,467		-	-	34
35	-	-							7,467	-	-	36
37	15/3	SPARE					3,824			TILT SKILLET [1]	(N) 20/3	38
39	-	-						3,824		-	-	40
41	-	-							3,824	-	-	42
43	PFB	-								SPARE	20/3	44
45	PFB	-								-	-	46
47	PFB	-								-	-	48
49	(N) 60/3	WAREWASHER	14,321							SPARE	70/3	50
51	-	-		14,321						-	-	52
53	-	-			14,321					-	-	54

PHASE TOTALS

A	B	C
12,501	12,501	12,501

PANEL AND CIRCUIT BREAKER NOTES:
[1] PROVIDE SHUNT TRIP BREAKERS. INTERLOCK WITH HOOD FIRE SUPRESSION SYSTEM

DEMAND LOADS		
LIGHTING / CONTINUOUS LOAD x 125%	136,740	Watts
RECEPTACLES / OTHER x 100%	165	Watts
LARGEST MOTOR x 25%		Watts
TOTAL DEMAND LOADS		Watts
TOTAL DEMAND AMPS	165	AMPS

(E) PANEL "3D" [1]

120/208 Volt, 3 Phase, 4 Wire
225 Amp BUS CU.
Amp MCB
225 Amp MLO

10 KAIC Rating
SURFACE Mounted
NEMA 1 Type

CKT.	BKR	DESCRIPTION	PHASE SUMMARY (WATTS) A	B	C		A	B	C	DESCRIPTION	BKR	CKT.
1	20/1	(E) REC OFFICE & REST RM	1,200				1,200			(E) REC KITCHEN & SNACK BAR	20/1	2
3	(N) 100/2	SERVING LINE LOAD CENTER #1		8,320				8,320		SERVING LINE LOAD CENTER #1	(N) 100/2	4
5	-	-			8,320				8,320	-	-	6
7	20/1	SPARE					864			(E) CLOTHES WASHING MACHINE	20/1	8
9	20/1	(E) LIGHTS SERVING AREA		696				526		(E) WALK-IN BOX & KITCHEN LTS	20/1	10
11	20/1	SPARE							840	SCULLERY EXHAUST FAN	20/1	12
13	20/1	SPARE					300			(E) EAST PIER LIGHTS	20/1	14
15	20/1	(E) LTS OUTSIDE TIME CLOCK		605				200		(E) LIGHTS SNACK BAR	20/1	16
17	20/1	(E) LIGHTS OUTSIDE HAND			605				1,200	(E) LIGHTS MAIN DINING	20/1	18
19	20/1	(E) LTS N. REST RM & EXHAUST FANS	1,404				200			(E) LIGHTS MAIN DINING	20/1	20
21	20/1	(E) LTS E. ENTRY TO STORE RM (WALK IN, SCULLERY		1,359				1,200		(E) LTS MAIN DINING & REST RM	20/1	22
23	20/1	(E) LTS TEACHERS DINING & HALL			1,443				1,470	(E) LTS SCULLERY, WALK IN BOX, STORE RM	20/1	24
25	20/1	(E) LTS TEACHERS DINING	1,104				1,470			(E) LIGHTS KITCHEN	20/1	26
27	20/1	(E) LIGHTS SEWING AREA		1,460				1,470		(E) RECEPTS SNACK BAR	20/1	28
29	20/1	(E) LIGHTS SEWING AREA			552				980	(E) KITCHEN LTS OVER STOVE	20/1	30
31	20/1	(E) REC N. RESTRM & OFFICE	1,400				1,200			(E) FLY FANS	20/1	32
33	20/1	(E) FLY FANS		1,200				1,200		(E) LIGHTS SNACK BAR	20/1	34
35	20/1	(E) REC SOUTH WALL			1,200				1,200	(E) OUTSIDE WALK-IN FREEZER	20/1	36
37	20/2	(E) PORTABLE WAGON	1,200				1,200			(E) RED WARMER	20/1	38
39	-	-		1,200				1,200		(E) CLOTHES DRYER	30/2	40
41	20/1	(E) REC RECEPTION,CNTRL HOOD FAN			1,200				1,200	-	-	42

PHASE TOTALS

A	B	C
12,742	28,956	28,530

PANEL AND CIRCUIT BREAKER NOTES:
[1] MULTIPLE CIRCUITS SHARING THE SAME CONDUIT AND NEUTRAL SHALL HAVE HANDLE TIES AT BREAKERS AND WIRE IN PANEL TIES PER CEC 210.4.
[2]

DEMAND LOADS		
LIGHTING / CONTINUOUS LOAD x 125%	10,779	Watts
RECEPTACLES / OTHER x 100%	61,605	Watts
LARGEST MOTOR x 25%		Watts
TOTAL DEMAND LOADS	72,384	Watts
TOTAL DEMAND AMPS	201	AMPS

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Sacramento City UNIFIED SCHOOL DISTRICT

HMC Architects
3186-071-000
2101 CAPITOL AVENUE, SUITE 100,
SACRAMENTO, CA, 95816
916 368 7990 / www.hmcarchitects.com

ISSUE

Δ	DESCRIPTION	DATE

NOTES

CONSULTING ENGINEERS
MEP & FS / Sustainability / CxA
1209 Pleasant Grove Blvd.
Roseville, CA 95678
p 916-771-0778
www.lpengineers.com
Job #: 24-2001

REGISTERED PROFESSIONAL ENGINEER
RAMI S. ZEIDAN
No. E 16762
Exp. 9/30/26
ELECTRICAL
STATE OF CALIFORNIA

FACILITY:
LUTHER BURBANK HIGH SCHOOL
3500 FLORIN RD
SACRAMENTO, CA 95823

PROJECT:
LUTHER BURBANK HIGH SCHOOL CAFETERIA MODERNIZATION

SHEET NAME:
ELECTRICAL PANEL SCHEDULES

DSA SUBMITTAL

DATE: **09/18/2024** | CLIENT PROJ NO: **3186071000**

SHEET:

E6.01

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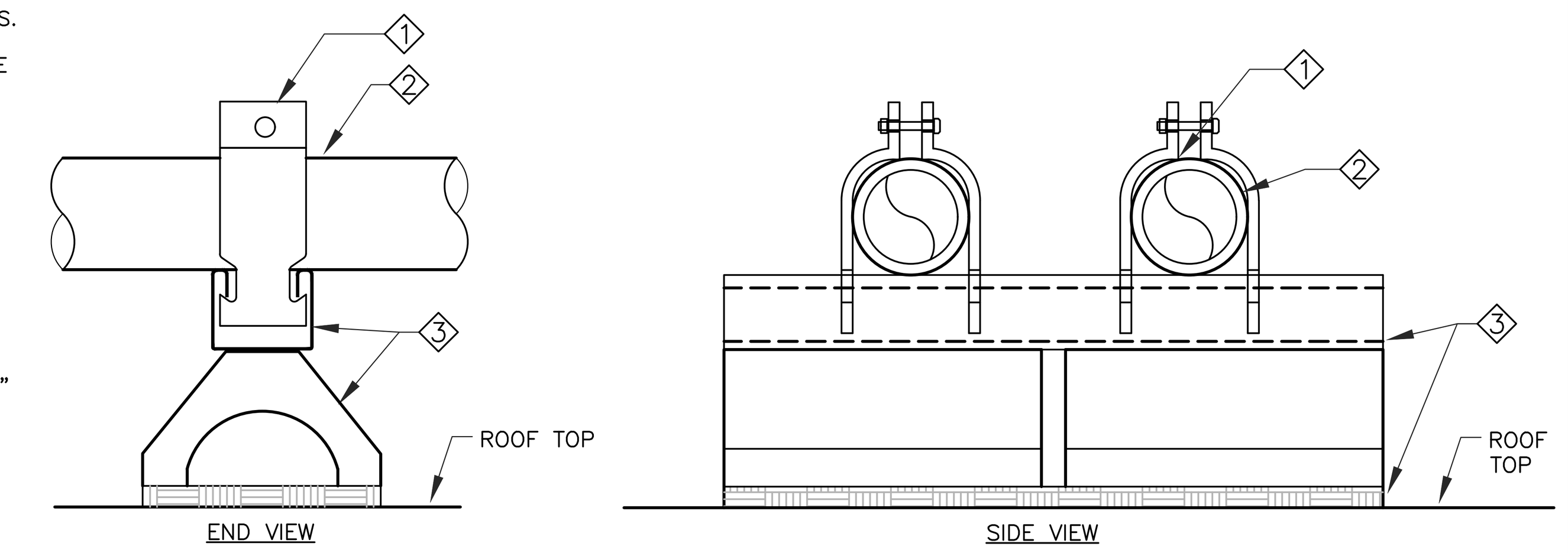
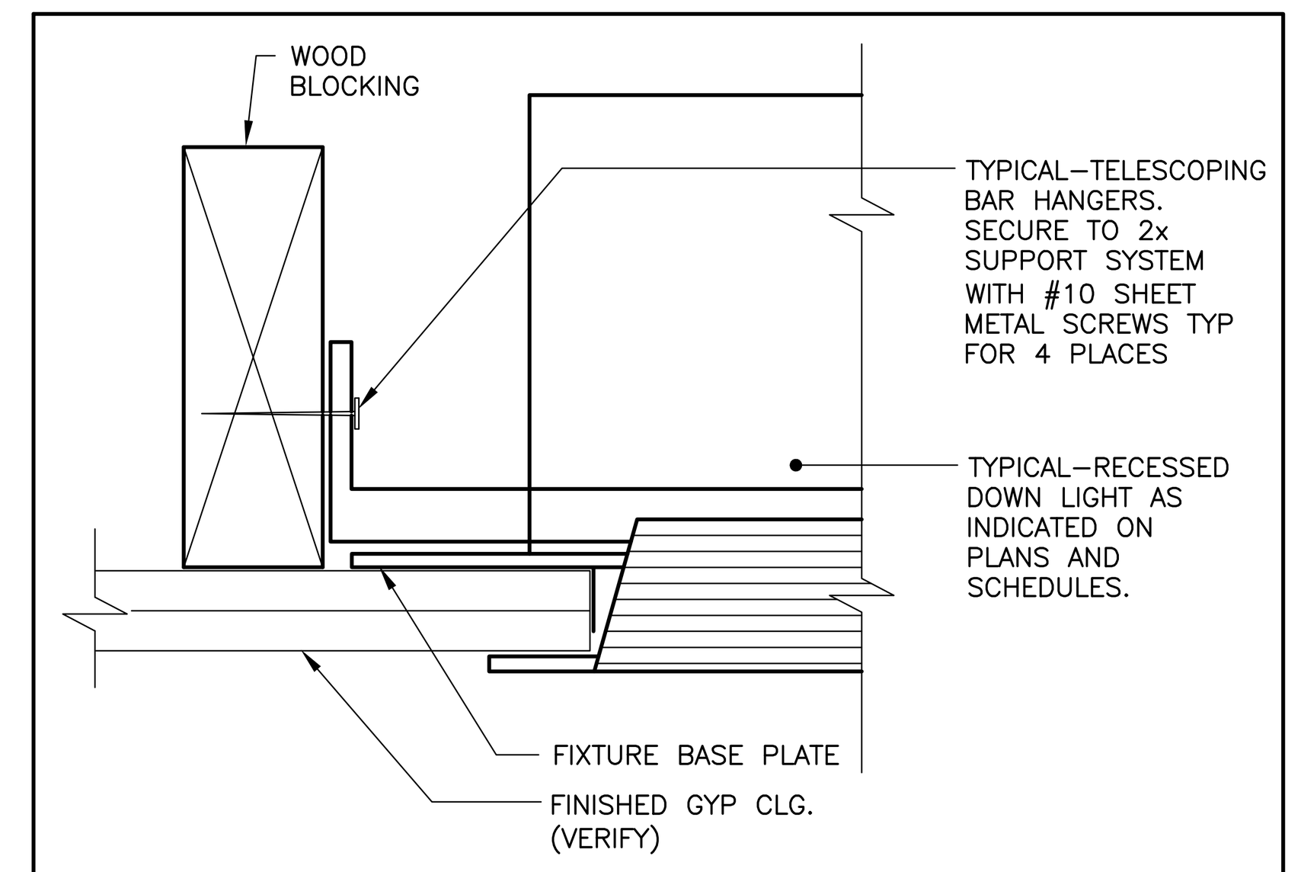
KEY NOTES

1. HOT-DIPPED GALVANIZED UNISTRUT CONDUIT CLAMP. SIZE AS REQUIRED.
2. CONDUIT AS NOTED ON DRAWINGS.
3. ROOFTOP SUPPORT BASE, B-LINE C6 SERIES WITH HOT-DIPPED GALVANIZED B12 CHANNEL. SECURE TO ROOF WITH A FULL BED OF NON-HARDENING ADHESIVE TYPE MASTIC.

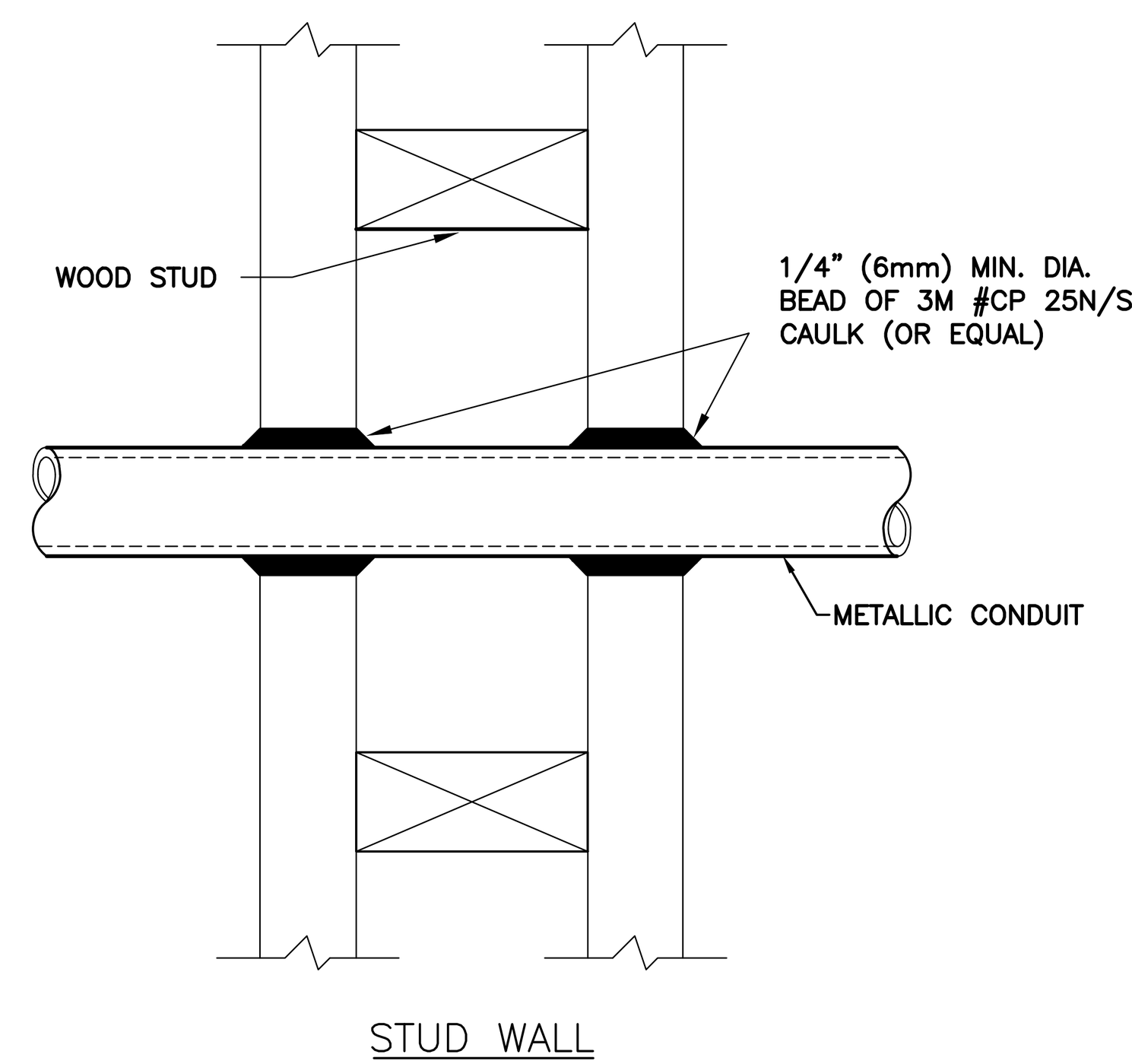
NOTE:
INSTALL SUPPORT BLOCK 8'-0" O.C. MAX, WITHIN 36" OF A BOX CONNECTION, AND AT EACH CHANGE OF DIRECTION.



ROOF CONDUIT LOW SUPPORT DETAIL | NTS | 4



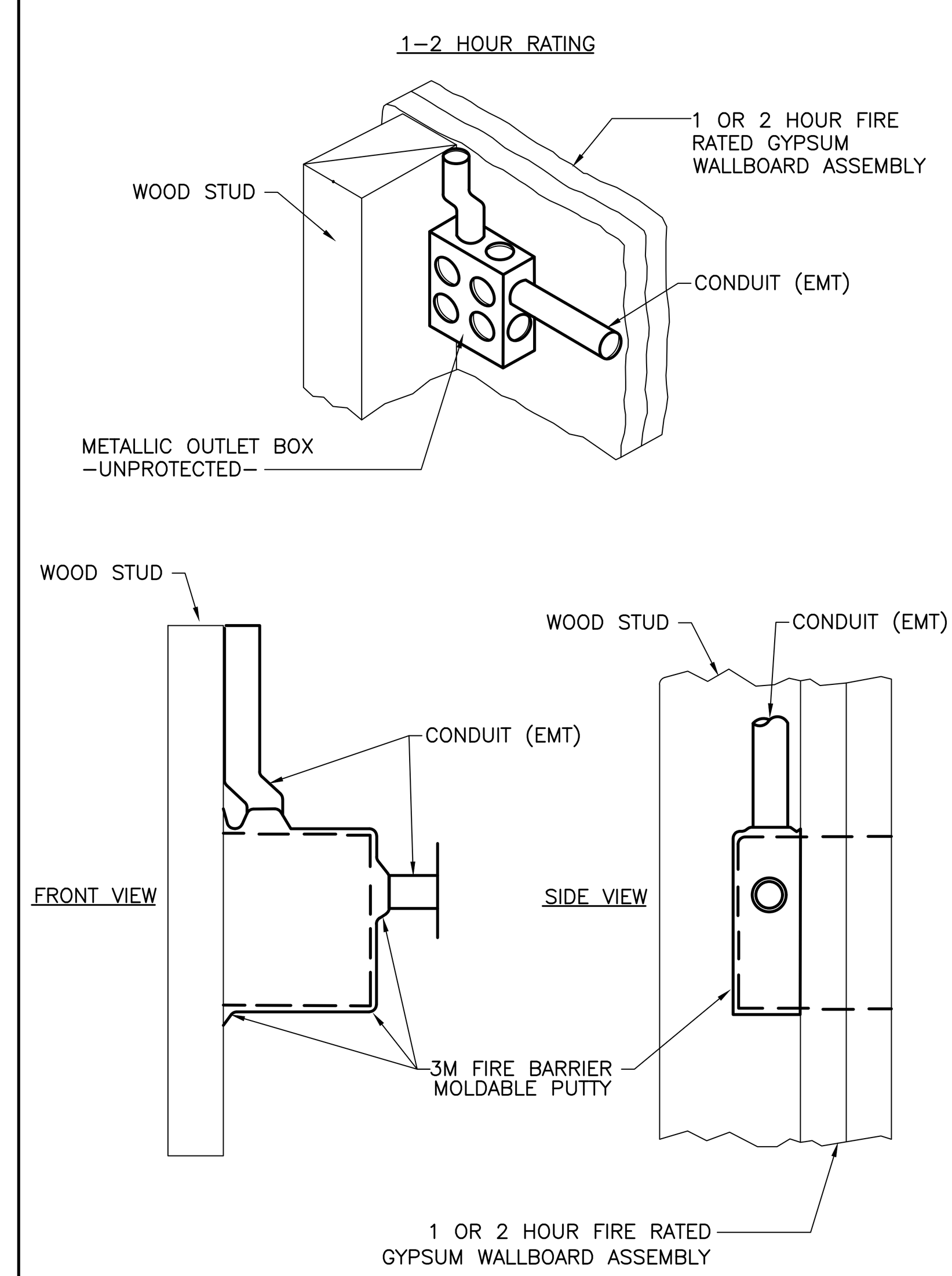
RECESSED DOWNLIGHT MOUNTING DETAIL | NTS | 1
WOOD FRAMING



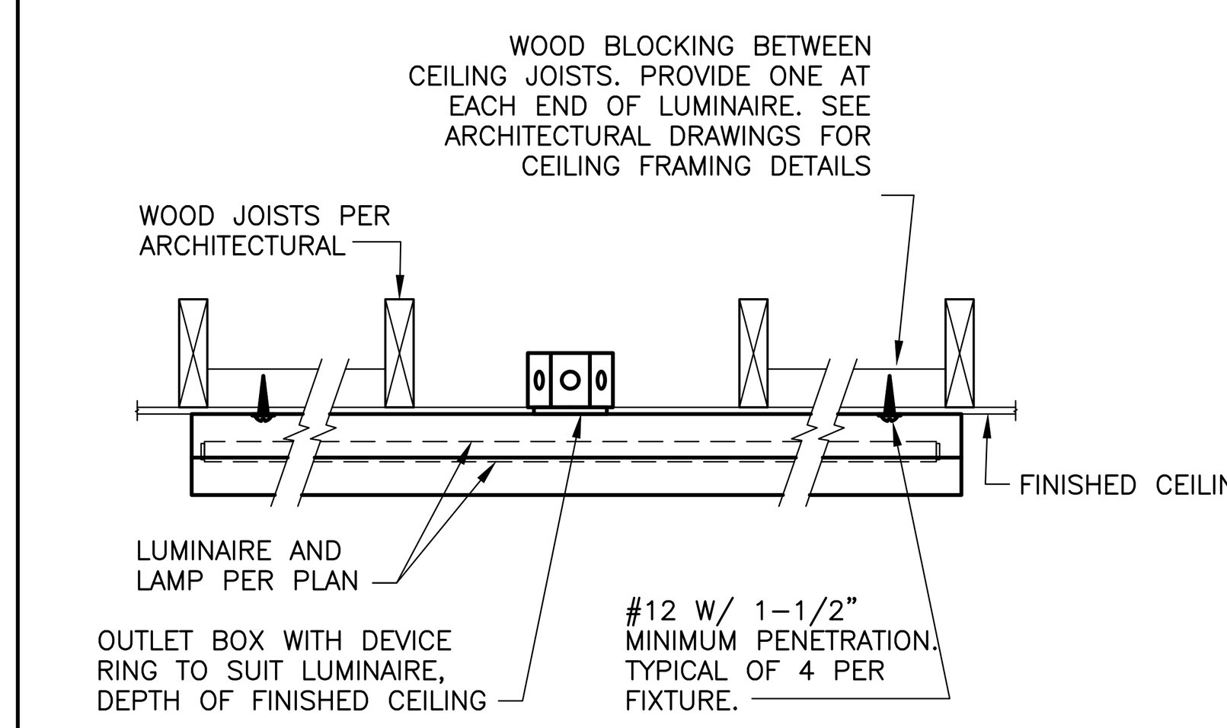
NOTES:

1. THE CAULK IS TO BE FORCED INTO THE ANNULAR SPACE TO THE MAXIMUM EXTENT POSSIBLE FLUSH WITH THE EXTERIOR OF THE PENETRATION SURFACE
2. FINISH CAULKING WITH A 1/4" (6mm) MINIMUM BEAD OF CP 25N/S CAULK APPLIED TO THE PERIMETER OF THE CONDUIT/PIPE AT ITS EGRESS FROM THE WALL.
3. THE MAXIMUM ANNULAR SPACE IS NOT TO EXCEED 3/16" (5mm).
4. INSTALL 3M FIRESTOP ON BOTH SIDES OF THE WALL.
5. THESE RECOMMENDATIONS ARE BASED ON PRODUCT PERFORMANCE PER ASTM E-814 (UL 1479) FIRE TEST AND UL THROUGH-PENETRATION FIRESTOP SYSTEM #WL1001.

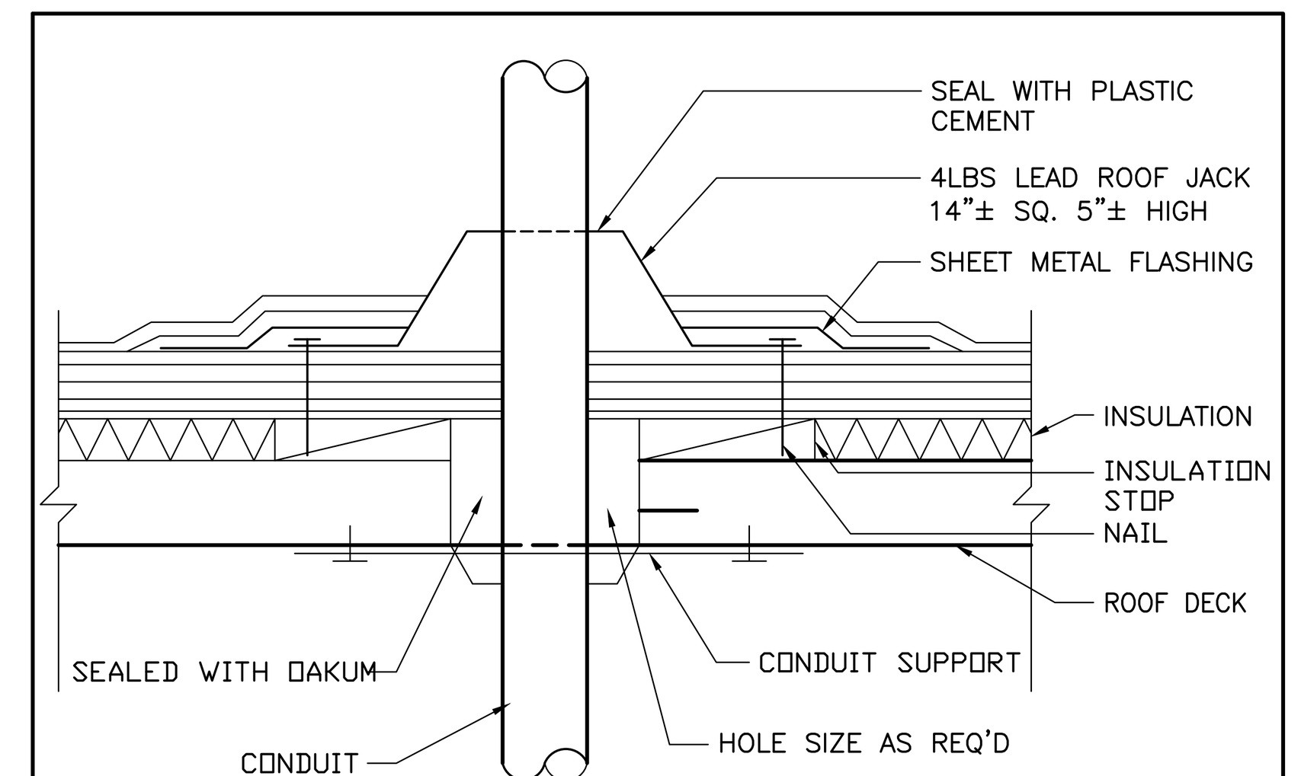
CONDUIT PENETRATION FIRESTOP DETAIL | NTS | 6
FOR METALLIC CONDUITS THROUGH FIRE RATED WOOD WALLS



FILENAME
WALL OPENING FIRE BARRIER 1 OR 2 HOUR WALL | NTS | 5



FILENAME
CEILING SURFACE LIGHT FIXTURE MOUNTING DETAIL FOR WOOD FRAMING | NTS | 2



NOTE:
SEALANT TO BE FURNISHED & INSTALLED BY ELECTRICAL CONTRACTOR

ELGE0018
ROOF CONDUIT PENETRATION DETAIL | NTS | 3

AGENCY APPROVAL:

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Sacramento City
UNIFIED SCHOOL DISTRICT

HMC Architects
3186-071-000
2101 CAPITOL AVENUE, SUITE 100,
SACRAMENTO, CA, 95816
916 368 7990 / www.hmcarchitects.com

ISSUE

Δ	DESCRIPTION	DATE

NOTES

LP CONSULTING ENGINEERS
MEP & FS / Sustainability / CxA
1209 Pleasant Grove Blvd.
Roseville, CA 95678
p 916-771-0778
www.lpengineers.com
Job #: 24-2001

REGISTERED PROFESSIONAL ENGINEER
RAMI S. ZEIDAN
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STATE OF CALIFORNIA

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3500 FLORIN RD
SACRAMENTO, CA 95823

PROJECT:
LUTHER BURBANK HIGH SCHOOL CAFETERIA MODERNIZATION

SHEET NAME:
ELECTRICAL DETAILS

DSA SUBMITTAL

DATE: 09/18/2024
CLIENT PROJ NO: 3186071000

SHEET:
E7.01

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STATE OF CALIFORNIA

Mechanical Systems

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name: Luther Burbank HS Cafeteria	Report Page:	(Page 4 of 11)
	Date Prepared:	8/21/2024

H. FAN SYSTEMS & AIR ECONOMIZERS

This table is used to demonstrate compliance with prescriptive requirements found in 140.4(c), 140.4(e), 140.4(m), 170.2(c)3, and 170.2(c)4A for fan systems. Fan systems serving only process loads are exempt from these requirements and do not need to be included in Table H.

System Name	HP 3-1	Quantity	1	Fan System Status	New	System Zoning	all other systems	Serving Dwelling Units	Not Serving Dwelling Units	Fan System Airflow (cfm)	1,600	Site Elevation	17	Economizer	Fixed Temperature

01	02	03	04	05	06	07	08	09	10	11
						Allowance		Design		
Fan Name or Item Tag	Fan Type	Qty	Component	Airflow through Component (%)	Water Gauge (w.g)	Component Allowance	Fan Allowance (watt/cfm)[3]	Design Electrical Input Power Method	Motor Nameplate Horsepower	Design Electrical Input Power (kW)
SF	Supply	1	Base Allowance for system serving spaces <=6 floors away	100		371		Manufacturer provided		0.97
			MERV 13-16 Filter upstream of thermal conditioning equipment	100		222				
			Hydronic/DX cooling coil or heat pump coil	100		222				
			Economizer Return Damper	100		74				
Supply Fan Base Allowance (kW)			Exhuast/Return/Relief/Transfer Fan Base Allowance(kW)			Fan System Allowance (kW)[3]		1	Fan System Electrical Output (kW)	0.97

[1] FOOTNOTES: Fans serving spaces with design background noise goals below NC35

[2] Low-turndown single-zone VAV fan system must be capable of and configured to reduce airflow to 50 percent of design airflow and use no more than 30 percent of the design wattage at that airflow. No more than 10 percent of the design load served by the equipment shall have fixed loads.

[3] Fan system allowance includes fan system base allowance.

[4] Filter pressure loss can only be counted once per fan system.

[5] Complex Fan System means a fan system that combines a single cabinet fan system with other supply fans, exhaust fans, or both.

[6] Computer room economizers must meet requirements of 140.9(a) and will be documented on the NRCC-PRC-E document..

STATE OF CALIFORNIA

Mechanical Systems

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name: Luther Burbank HS Cafeteria	Report Page:	(Page 2 of 11)
	Date Prepared:	8/21/2024

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance.

01		02		03		04		05		06		07		08	09
System Summary 110.1, 110.2, 140.4, 170.2(c)	AND	Pumps 140.4(k), 170.2(c)4I	AND	Fans/ Economizers 140.4(c), 140.4(e), 170.2(c)	AND	System Controls 110.2, 120.2, 140.4(f), 170.2(c)	AND	Ventilation 120.1, 160.2	AND	Terminal Box Controls 140.4(d), 170.2(c)4B	AND	Distribution 120.3, 140.4(l), 160.2, 160.3	AND	Cooling Towers 110.2(e)2	Compliance Results
(See Table F)		(See Table G)		(See Table H)		(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See Table M)	
Yes	AND		AND	Yes	AND	Yes	AND	Yes	AND		AND	Yes	AND		COMPLIES
Mandatory Measures Compliance (See Table Q for Details)										COMPLIES					

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Space Conditioning System Information

01	02	03	04	05	06
System Name	Quantity	System Serving	System Status	Space Type	Utilizing Recovered Heat
HP 3-1	1	Single zone	New/ Addition		☐

STATE OF CALIFORNIA

Mechanical Systems

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, or 141.0(b)2 for alterations.		
Project Name: Luther Burbank HS Cafeteria	Report Page:	(Page 1 of 11)
Project Address: 3500 Florin Road	Date Prepared:	8/21/2024

A. GENERAL INFORMATION

01	Project Location (city)	Sacramento	04	Total Conditioned Floor Area	1314
02	Climate Zone	12	05	Total Unconditioned Floor Area	0
03	Occupancy Types Within Project:		06	# of Stories (Habitable Above Grade)	1

- All Other Occupancies

B. PROJECT SCOPE

This table Includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, 170.2(b) or 141.0(b)2 and 180.2(b)2 for alterations.

01	02	03
Air System(s)	Wet System Components	Dry System Components
☒ Heating Air System	☐ Water Economizer	☒ Air Economizer
☒ Cooling Air System	☐ Pumps	☐ Electric Resistance Heat
Mechanical Controls	☐ System Piping	☒ Fan Systems
☒ Mechanical Controls (existing to remain, altered or new)	☐ Cooling Towers	☒ Ductwork (existing to remain, altered or new)
	☐ Chillers	☒ Ventilation
	☐ Boilers	☐ Zonal Systems/ Terminal Boxes

STATE OF CALIFORNIA

Mechanical Systems

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name: Luther Burbank HS Cafeteria	Report Page:	(Page 6 of 11)
	Date Prepared:	8/21/2024

J. VENTILATION AND INDOOR AIR QUALITY

This table is used to demonstrate compliance with mandatory ventilation requirements in 120.1 120.2(e)3B 140.4(p) and 140.4(q) for all nonresidential and hotel/motel and d:t24refnolink/]160.2, 160.3(a)3D, 170.2(a)4N, 170.2(a)4O for high-rise residential occupancies. For alterations, only ventilation systems being altered within the scope of the permit application need to be documented in this table. In lieu of this table, the required outdoor ventilation rates and airflows may be shown on the plans or the calculations can be presented in a spreadsheet.

01	☐	Check the box if the project is showing ventilation calculations on the plans, or attaching the calculations instead of completing this table.
02	☒	Check this box if the project included Nonresidential, Hotel/Motel Spaces or Multifamily Common Use Spaces
	☐	
03	☐	Check the box if the project is using natural ventilation in any nonresidential or hotel/motel spaces to meet required ventilation rates per 120.1(c)2.

Nonresidential and Hotel/ Motel Multifamily Common Use Ventilation Systems

04		05		06		07
System Name	HP 3-1	System Design OA CFM Airflow[1]	6056	System Design Transfer Air CFM	0	Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21[2]: Provided

08	09	10	11	12	13	14	15	16	
Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)3[3] & 160.2(c)3					Exh. Vent per 120.1(c)4 & 160.2(c)4		DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)3[6] 160.2(c)5D 160.2(c)5E 160.2(c)5D	
	Occupancy Type[4]	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
Food Service - Kitchen	Kitchen (cooking)	1314			197.1	919.8	6056	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				197	18	Ventilation for this System Complies?		Yes

[1] FOOTNOTES: System CFM should include both mechanical and natural ventilation for the zone/system

[2] Air filtration requirements apply to the following three system types per 120.1(c)1A: space conditioning systems utilizing ducts to supply air to occupiable space; supply-only ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing outside air to occupiable space.

[3] Uniform Mechanical Code may have more stringent ventilation requirements; the most stringent code requirement takes precedence.

[4] See Standards Tables 120.1-A and 120.1-B.

STATE OF CALIFORNIA

Mechanical Systems

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name: Luther Burbank HS Cafeteria	Report Page:	(Page 5 of 11)
	Date Prepared:	8/21/2024

H. EXHAUST AIR HEAT RECOVERY 140.4(q), 170.2(c)4O

01	02	03	04	05	06	07	08	09	10	11
Fan System Name	Qty	Hours of Operation per Year	Design Supply Airflow Rate	Outdoor Airflow	% Outdoor Air at Full Design Airflow	Exemptions to Exhaust Air Heat Recovery Requirement per 140.4(q) & 170.2(c)4O	Exhaust Air Heat Recovery 140.4(q) & 170.2(c)4O	Type Of Heat Recovery Rating	Required Recovery Ratio	Energy Recovery Bypass

Fan Energy Index (FEI)

01	02	03
Name or Item Tag	FEI Exception	FEI
HP 3-1	None Applies	1

I. SYSTEM CONTROLS

This table is used to demonstrate compliance with mandatory controls in 110.2 and 120.2 and prescriptive controls in 140.4(f) and (n), 170.2(c)4D 170.2(c)4L or requirements in 141.0(b)2E 180.2(b)2 for altered space conditioning systems.

01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area Being Served (ft^2)	Thermostats 110.2(b) & (c)[1], 120.2(a) 160.3(a)2A or 141.0(b)2E & 180.2(b)2	Shut-Off Controls 120.2(e) & 160.3(a)2D	Isolation Zone Controls 120.2(g) & 160.3(a)2F	Demand Response 110.12 120.2(b) & 160.3(a)2B	Supply Air Temp. Reset 140.4(f) & 170.2(c)4D	Window Interlocks per 140.4(n) & 170.2(c)4D
HP 3-1	Single zone	<= 25,000 ft^2	Setback	NA: Altered per 141.0(b)2E	NA: Altered per §141.0(b)2E	EMCS	Included	NA: Alteration Project

[1] FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.

STATE OF CALIFORNIA

Mechanical Systems

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name: Luther Burbank HS Cafeteria	Report Page:	(Page 3 of 11)
	Date Prepared:	8/21/2024

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems)

01	02	03	04	05	06	07	08	09	10	11
Name or Item Tag	Equipment Category per Tables 110.2, 140.4(a)2 and 170.2(c)3aii	Equipment Type per Tables 110.2 and Title 20	Smallest Size Available[1] 140.4(a) and 170.2(c)1	Equipment Sizing per Mechanical Schedule (kBtu/h) 140.4(a&b), 170.2(c)1 & 170.2(c)2						
				Heating Output[2,3]			Cooling Output[2,3]		Load Calculations[3,4]	
				Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
HP 3-1	Unitary Heat Pumps	Air-cooled, pkg (3 phase)	Yes	29.73	47.6	0	48.72	36	409.03	226.62

[1] FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per 140.4(a) and 170.2(c)1. Healthcare facilities are excepted.

[2] It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.

[3] If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.

[4] Authority Having Jurisdiction may ask for load calculations used for compliance per 140.4(b) and 170.2(c).

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP), DX-DOAS and Dual Fuel Heat Pumps)

01	02	03	04	05	06	07	08	09
Name or Item Tag	Size Category (Btu/h)	Heating Mode				Cooling Mode		
		Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency
HP 3-1	<65,000		HSPF2	6.7	7.3	SEER2	13.4	14.4

G. PUMPS

This section does not apply to this project.

TITLE 24 SHEET INDEX

Sacramento City UNIFIED SCHOOL DISTRICT

HMC Architects
3186-071-000
2101 CAPITOL AVENUE, SUITE 100, SACRAMENTO, CA 95816
916 368 7990 / www.hmcarchitects.com

ISSUE

△	DESCRIPTION	DATE

NOTES

LP CONSULTING ENGINEERS
MEP & FS / Sustainability / CxA
1209 Pleasant Grove Blvd.
Roseville, CA 95678
p 916-771-0778
www.lpengineers.com
Job #: 24-2001

REGISTERED PROFESSIONAL ENGINEER
RYAN ENNIS
M 41413
REN. 03-31-25
MECHANICAL
STATE OF CALIFORNIA

FACILITY:

LUTHER BURBANK HIGH SCHOOL
3500 FLORIN RD
SACRAMENTO, CA 95823

PROJECT:

LUTHER BURBANK HIGH SCHOOL CAFETERIA MODERNIZATION

SHEET NAME:

TITLE 24 COMPLIANCE

DSA SUBMITTAL

DATE: **09/18/2024** CLIENT PROJ NO: **3186071000**

SHEET:

T24.01

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STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name: Luther Burbank HS Cafeteria	**Report Page:**	**(Page 9 of 11)**
	Date Prepared:	8/21/2024

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Form/Title
NRCI-MCH-01-E - Must be submitted for all buildings

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

Form/Title	Systems/Spaces To Be Field Verified
NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap.	Provent-PEHCPRSS;
NRCA-MCH-03-A - Constant Volume Single Zone HVAC NOTE: This form does not automatically move to "Yes". If Constant Volume Single Zone HVAC Systems are included in the scope, permit applicant should move this form to "Yes".	Provent-PEHCPRSS;
NRCA-MCH-05-A - Air Economizer Controls	Provent-PEHCPRSS;
NRCA-MCH-11-A Automatic Demand Shed Controls	Provent-PEHCPRSS;
NRCA-MCH-12-A FDD for Packaged Direct Expansion Units	Provent-PEHCPRSS;
NRCA-MCH-18-A Energy Management Control Systems	Provent-PEHCPRSS;

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no NRCV forms required for this project.

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
This document is used to demonstrate compliance with requirements in 110.9, 110.12(c), 130.0, 130.1, 140.6 and 141.0(b)2 for indoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e) and 180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.		
Project Name: Luther Burbank High School Cafeteria Modernization	**Report Page:**	**(Page 1 of 8)**
Project Address:	**Date Prepared:**	2024-09-16T13:24:15-04:00

A. GENERAL INFORMATION

01	Project Location (city)	Sacramento	04	Total Conditioned Floor Area (ft²)	2,065
02	Climate Zone	12	05	Total Unconditioned Floor Area (ft²)	0
03	Occupancy Types Within Project (select all that apply):		06	# of Stories (Habitable Above Grade)	1

● Restaurant ● School or Classroom

B. PROJECT SCOPE

This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.6 / 170.2(e) or 141.0(b)2 / 180.2(b)4 for alterations.

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
☒ New Lighting System	Area Category Method	2065	N/A	0
☐ New Lighting System - Parking Garage	N/A	0	N/A	0
Total Area of Work (ft²)	2065			

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name: Luther Burbank HS Cafeteria	**Report Page:**	**(Page 8 of 11)**
	Date Prepared:	8/21/2024

L. DISTRIBUTION (DUCTWORK and PIPING)

		Dwelling Units: Total duct leakage of duct system shall not exceed 12% or duct system to outside shall not exceed 6% per RA3.1.4 required for these systems?	No
		Duct leakage testing per CMC Section 603.10.1 required for these systems?	Yes
11	No	The scope of the project includes only duct systems serving healthcare facilities	
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.	
13	Yes	The space conditioning system serves less than 5,000 ft² of conditioned floor area.	
14	No	The combined surface area of the ducts is more than 25% of the total surface area of the entire duct system:	
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.	
16	No	The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	
17		All Ductwork and plenums with pressure class ratings shall be constructed to Seal Class A	
18		All ductwork is an extension of an existing duct system	
19		Ductwork serving individual dwelling unit	
20		< 25 ft of new or replacement space conditioning ducts installed	
21	R-8	Duct Insulation R-value	
22			
23			

M. COOLING TOWERS

This section does not apply to this project.

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name: Luther Burbank HS Cafeteria	**Report Page:**	**(Page 11 of 11)**
Project Address: 3500 Florin Road	**Date Prepared:**	8/21/2024

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: James Meyer	Documentation Author Signature:
Company:	Signature Date:
Address: 1209 Pleasant Grove Blvd.	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Roseville CA 95678	Phone: 916-771-0778

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Ryan Ennis	Responsible Designer Signature:
Company: LP Consulting Engineers	Date Signed: 2024-08-21
Address: 1209 Pleasant Grove Blvd.	License: M41413
City/State/Zip: Roseville CA 95678	Phone: 916-771-0778

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name: Luther Burbank HS Cafeteria	**Report Page:**	**(Page 7 of 11)**
	Date Prepared:	8/21/2024

J. VENTILATION AND INDOOR AIR QUALITY

[5] For lecture halls with fixed seating, the expected number of occupants shall be determined in accordance with the California Building Code.

[6] 120.2(e)3 requires systems serving rooms that are required by 130.1(c) to have lighting occupancy sensing controls to also have occupancy sensing zone controls for ventilation. Examples of spaces which require lighting occupancy sensors include offices 250ft² or smaller, multipurpose rooms less than 1,000 ft², classrooms, conference rooms, restrooms, aisles and open areas in warehouses, library book stack aisles, corridors, stairwells, parking garages, and loading and unloading zones, unless excepted by 130.1(c).

K. TERMINAL BOX CONTROLS

This section does not apply to this project.

L. DISTRIBUTION (DUCTWORK and PIPING)

This table is used to show compliance with mandatory pipe insulation requirements found in 120.3 and mandatory requirements found in 120.4(g) for duct sealing.

01	☐	Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather shall be installed with a cover suitable for outdoor service. Insulation covering chilled water piping and refrigerant suction piping located outside the conditioned space shall have a Class I or Class II vapor retarder. All penetrations and joints of which shall be sealed.

Duct Leakage Testing

The answers to the questions below apply to the following duct systems:	HP 3-1	**NR/ Common Use:** Duct leakage testing shall not exceed 6% per NA7.5.3 required for these systems?	No

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
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Q. MANDATORY MEASURES DOCUMENTATION LOCATION

This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

		01	02
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block	Yes	Plan sheet or construction document location	M-Sheets

AGENCY APPROVAL:

REVIEWING AGENCIES STAMP HERE

Sacramento City UNIFIED SCHOOL DISTRICT

HMC Architects

3186-071-000

2101 CAPITOL AVENUE, SUITE 100,
SACRAMENTO, CA, 95816
916 368 7990 / www.hmcarchitects.com

ISSUE

Δ DESCRIPTION DATE

NOTES

CONSULTING ENGINEERS

MEP & FS / Sustainability / CxA

1209 Pleasant Grove Blvd.
Roseville, CA 95678
p 916-771-0778

www.lpengineers.com
Job #: 24-2001

REGISTERED PROFESSIONAL ENGINEER
RYAN ENNIS
M 41413
REN. 03-31-25
MECHANICAL
STATE OF CALIFORNIA

FACILITY:
LUTHER BURBANK HIGH SCHOOL
3500 FLORIN RD
SACRAMENTO, CA 95823

PROJECT:
LUTHER BURBANK HIGH SCHOOL CAFETERIA MODERNIZATION

SHEET NAME:
TITLE 24 COMPLIANCE

DSA SUBMITTAL

DATE: **09/18/2024** CLIENT PROJ NO: **3186071000**

SHEET:

T24.02

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STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: Luther Burbank High School Cafeteria Modernization	**Report Page:**	**(Page 4 of 8)**
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H. INDOOR LIGHTING CONTROLS (Not including PAFs)

Area Level Controls

04	05	06	07	08	09	10	11	12	
Area Description	Complete Building or Area Category Primary Function Area	Manual Area Controls 130.1(a) / 160.5(b)4A	Multi-Level Controls 130.1(b) / 160.5(b)4B	Shut-Off Controls 130.1(c) // 160.5(b)4C	Primary/Skylit Daylighting 130.1(d) / 160.5(b)4D	Secondary Daylighting 130.1(d) / 160.5(b)4D	Interlocked Systems 140.6(a)1/ 170.2(e)2A	Field Inspector	
								Pass	Fail
SERVING AREA	Dining - Fastfood	Readily Accessible	Dimmer	Occupancy Sensor	NA: General Ltg < 120W	NA: General Ltg < 120W	No	☐	☐
SNACK BAR	Dining - Fastfood	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
LOCKER ROOM	Locker/Dressing Room	Readily Accessible	NA: Enclosed area <100SF	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
LAUNDRY ROOM	Laundry	Readily Accessible	NA: Enclosed area <100SF	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
UNISEX RESTROOM	Restroom	Readily Accessible	NA: Enclosed area <100SF	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
UNISEX RESTROOM	Restroom	Readily Accessible	NA: Enclosed area <100SF	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
							13		
							Plan Sheet Showing Daylit Zones:		
							E3.01		

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Each area complying using the Complete Building or Area Category Methods per 140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per 140.6(c) or adjustments per 140.6(a) are being used .

Conditioned Spaces

01	02	03	04	05	06

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Indoor Lighting
CALIFORNIA ENERGY COMMISSION

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S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

T. DWELLING UNIT LIGHTING

This section does not apply to this project.

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selections have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title
NRCI-LTI-E - Must be submitted for all buildings

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "-A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

Form/Title	Systems/Spaces To Be Field Verified
NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	SERVING AREA; SNACK BAR; LOCKER ROOM; LAUNDRY ROOM; UNISEX RESTROOM; UNISEX RESTROOM
NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	SNACK BAR

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
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F. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes all planned permanent and portable lighting other than dwelling unit/ hotel/ motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table T. If using Table T to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are not included here.

Designed Wattage: Conditioned Spaces

01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change[1]	Watts per luminaire[2]	How is Wattage determined	Total Number of Luminaires	Excluded per 140.6(a)3 / 170.2(e)2C	Design Watts	Field Inspector	
									Pass	Fail
A1	1x4 SURFACE LUMINAIRE	No	NA	32.5	Mfr. Spec	6	No	195	☐	☐
B	DOWNLIGHT	No	NA	15.1	Mfr. Spec	11	No	166.1	☐	☐
C	4' STRIP LUMINAIRE	No	NA	22	Mfr. Spec	6	No	132	☐	☐
A2	1x4 SURFACE LUMINAIRE	No	NA	38	Mfr. Spec	15	No	570	☐	☐
							Total Designed Watts: CONDITIONED SPACES	1,063.1		

[1]*FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(a)4B / 170.2(e)2D is adjusted to be 75% /80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.*

[2]*Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b). Wattage used must be the maximum rated for the luminaire, not the lamp.*

G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

This table includes lighting controls for conditioned and unconditioned spaces.

Building Level Controls

01	02	03	
		Field Inspector	
		Pass	Fail
Mandatory Demand Response 110.12(c)	Shut-off controls 130.1(c) / 160.5(b)4C		
NA < 4,000W subject to multilevel	See Area/Space Level Controls	☐	☐

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: Luther Burbank High School Cafeteria Modernization	**Report Page:**	**(Page 6 of 8)**
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K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS

This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

This section does not apply to this project.

Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS

This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS

This section does not apply to this project.

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: Luther Burbank High School Cafeteria Modernization	**Report Page:**	**(Page 2 of 8)**
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C. COMPLIANCE RESULTS

If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per 140.6(b)1 / 170.2(e)	Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts)						Adjusted Lighting Power per 140.6(a) / 170.2(e) (Watts)				Compliance Results
	01	02	03	04		05	06	07		08	09
	Complete Building 140.6(c)1	Area Category 140.6(c)2 / 170.2(e)4	Area Category Additional 140.6(c)2G / 170.2(e)4Av (+)	Tailored 140.6(c)3 / 170.2(e)4B (+)		**Total Allowed** (Watts)	Total Designed (Watts)	Adjustments PAF Lighting Control Credits 140.6(a)2 / 170.2(e)1B (-)		**Total Adjusted** (Watts) *Includes Adjustments	**05 must be >= 08 140.6 / 170.2(e)**
	(See Table I)	(See Table I)	(See Table J)	(See Table K)			(See Table F)	(See Table P)			
Conditioned		946.25	166.1		=	1,112.35	1,063.1		=	1063.1	COMPLIES
Unconditioned					=				=		
Controls Compliance (See Table H for Details)											COMPLIES
Rated Power Reduction Compliance (See Table Q for Details)											

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: Luther Burbank High School Cafeteria Modernization	**Report Page:**	**(Page 5 of 8)**
	Date Prepared:	2024-09-16T13:24:15-04:00

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment	
					Area Category	PAF
SERVING AREA	Dining - Fastfood	0.45	1,430	643.5	Yes	No
SNACK BAR	Dining - Fastfood	0.45	370	166.5	No	No
LOCKER ROOM	Locker/Dressing Room	0.45	90	40.5	No	No
UNISEX RESTROOM	Restroom	0.65	45	29.25	No	No
UNISEX RESTROOM	Restroom	0.65	40	26	No	No
LAUNDRY ROOM	Laundry	0.45	90	40.5	No	No
		TOTALS:	2,065	946.25	See Tables J, or P for detail	

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

All areas indicated in Table I as using an additional allowance using the Area Category Method have been included in this table to calculate the additional allowance per Table 140.6-C /170.2-M

Conditioned Spaces

01	02	03	04	05	06	07	08	09	10
Area Description	Primary Function Area	Applicable Qualifying Lighting System from Table 140.6-C	Allowed Density (W/ft² or W/lf or W/unit)	Ltg Area, Length or ATM/Mirror (ft², lf or #)	Extra Allowance (Watts)	Luminaire Name or Item Tag	Watts per Luminaire	Number of Luminaires	Total Design Watts
SERVING AREA	Dining - Fastfood	DecorativeDisplay C	0.25	1430	357.5	B	15.1	11	166.1
Total Design Watts	Calculated Allowance (Watts):	Total Additional Allowance for this area:							
166.1	357.5	166.1							
11									
Total Additional Allowance (Watts) CONDITIONED SPACES		166.1							

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: Luther Burbank High School Cafeteria Modernization	**Report Page:**	**(Page 8 of 8)**
Project Address:	**Date Prepared:**	2024-09-16T11:50:11-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:	Documentation Author Signature:
Alex Syrovoi	
Company: LP Consulting Engineers	Signature Date: 09/16/2024
Address: 1209 Pleasant Grove Blvd	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Roseville, CA 95678	Phone: 916-771-2910

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name:	Responsible Designer Signature:
Rami Zeidan	
Company: LP Consulting Engineers	Date Signed: 09/16/2024
Address: 1209 Pleasant Grove Blvd	License:
City/State/Zip: Roseville, CA 95678	Phone: 916-771-2910

AGENCY APPROVAL:

REVIEWING AGENCIES STAMP HERE

Sacramento City UNIFIED SCHOOL DISTRICT

HMC Architects
3186-071-000
2101 CAPITOL AVENUE, SUITE 100,
SACRAMENTO, CA, 95816
916 368 7990 / www.hmcarchitects.com

ISSUE

Δ	DESCRIPTION	DATE

NOTES

LP CONSULTING ENGINEERS
MEP & FS / Sustainability / CxA
1209 Pleasant Grove Blvd,
Roseville, CA 95678
p 916-771-0778
www.lpengineers.com
Job #: 24-2001

REGISTERED PROFESSIONAL ENGINEER — BRYAN ENNIS — M 41413 — REN. 03-31-25 — MECHANICAL — STATE OF CALIFORNIA

FACILITY:
LUTHER BURBANK HIGH SCHOOL
3500 FLORIN RD
SACRAMENTO, CA 95823

PROJECT:
LUTHER BURBANK HIGH SCHOOL CAFETERIA MODERNIZATION

SHEET NAME:
TITLE 24 COMPLIANCE

DSA SUBMITTAL

DATE: **09/18/2024** | CLIENT PROJ NO: **3186071000**

SHEET:

T24.03

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FIRE ALARM ABBREVIATIONS/SYMBOLS

SYMBOL	DESCRIPTIONS	SYMBOL	DESCRIPTIONS
A	ABOVE CEILING	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
AFF	ABOVE FINISHED FLOOR	NIC	NOT IN CONTRACT
AHJ	AUTHORITY HAVING JURISDICTION	NPU	NETWORK PROCESSING UNIT
ALM	ALARM	NTS	NOT TO SCALE
ANN	ANNUNCIATOR	PAP	PRE–ACTION PANEL
BMS	BUILDING MANAGEMENT SYSTEM	PB	PULL BOX
C	CONDUIT	PIV	POST INDICATE VALVE
CBC	CALIFORNIA BUILDING CODE	(R)	RELOCATE / RELOCATED
CEC	CALIFORNIA ELECTRICAL CODE	(RC)	EXISTING TO REMOVE AND COVER
CFC	CALIFORNIA FIRE CODE	(RD)	EXISTING DEVICE TO BE RELOCATED
CM	CEILING MOUNTED	(RL)	RELOCATED DEVICE
CD	CANDELA RATING	(RR)	REMOVE EXISTING & REPLACE WITH NEW
DET	DETECTOR	SCC	STATUS COMMAND CENTER
DGP	DATA GATHERING PANEL	SLC	SIGNALING LINE CIRCUIT
(E)	EXISTING TO REMAIN	SMK	SMOKE
EC	EMPTY CONDUIT	SUPV	SUPERVISORY
EM	EMERGENCY	TOS	TOP OF SHAFT
EMT	ELECTRICAL METALLIC TUBING	TRBL	TROUBLE
EOL	END OF LINE	TS	TAMPER SWITCH
EPO	EMERGENCY POWER OFF	TYP	TYPICAL
FAA	FIRE ALARM ANNUNCIATOR	UNO	UNLESS NOTED OTHERWISE
FACP	FIRE ALARM CONTROL PANEL	VCC	VOICE COMMAND CENTER
FAPS	REMOTE FIRE ALARM POWER SUPPLY	VT	VALVE TAMPER
FATC	FIRE ALARM TERMINAL CABINET	W	WATTAGE
FBO	FURNISHED BY OTHERS	W/	WITH
FCC	FIRE COMMAND CENTER	W/O	WITHOUT
FSD	FIRE SMOKE DAMPER	WF	WATERFLOW
FTR	FIRE ALARM TRANSPONDER	WG	WIRE GUARD
GB	GROUND BOX	WP	WEATHERPROOF
H	HIGH HUMIDITY	(X)	REMOVE
HT	HEIGHT	XFMR	TRANSFORMER
HVAC	HEATING VENTILATION & AIR CONDITIONING		
IMS	INFORMATION MANAGEMENT SYSTEM		
MAX	MAXIMUM		
MIN	MINIMUM		
(N)	NEW		
N/A	NOT APPLICABLE		
NA	NOT AVAILABLE		
NAC	NOTIFICATION APPLIANCE CIRCUIT		
NDU	NETWORK DISPLAY UNIT		
NEC	NATIONAL ELECTRICAL CODE		

FIRE ALARM GENERAL DEMO NOTES

1. ALL EXISTING FIRE ALARM EQUIPMENT, DEVICES, CONDUIT AND WIRING, ETC., WHERE SHOWN ON PLANS ARE BASED ON AVAILABLE EXISTING DOCUMENTS AND LIMITED SITE SURVEY AND ARE SHOWN FOR CLARITY. IT SHALL BE REGARDED AS AN APPROXIMATION ONLY. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT. PRIOR TO SUBMITTING BID AND BEFORE START OF ANY ELECTRICAL WORK, CONTRACTOR SHALL VERIFY ON–SITE ALL EXISTING LOCATIONS AND CONDITIONS TO ASCERTAIN ALL WORK REQUIRED.
2. EXISTING FIRE ALARM SYSTEM SHALL REMAIN ACTIVE UNTIL CONSTRUCTION IS COMPLETED. CAUSE AS LITTLE INTERFERENCE OR INTERRUPTION OF EXISTING FIRE ALARM SYSTEMS AND/OR OTHER EXISTING FACILITY'S SYSTEMS AND SERVICES AS POSSIBLE. CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE AT LEAST 72 HOURS TO SCHEDULE ALL NECESSARY SHUTDOWNS. SHUTDOWN WORK SHALL BE PERFORMED AFTER THE NORMAL OPERATION HOURS OF THE FACILITY, IF SO DIRECTED BY THE OWNER'S REPRESENTATIVE.
3. FIRE WATCH IN CONFORMANCE WITH THE CALIFORNIA FIRE CODE SHALL BE PROVIDED AT THE DIRECTION OF THE CONTRACTOR FOR EVERY OFF–LINE BUILDING. THE SCHOOL SHALL ASSIST WITH FIRE WATCH ACTIVITIES DURING SCHOOL HOURS AND WHENEVER THE CAMPUS IS OCCUPIED BY STUDENTS, TEACHERS AND STAFF. THE CONTRACTOR SHALL PROVIDE ALL FIRE WATCH ACTIVITIES AFTER SCHOOL HOURS AND WHENEVER THE CAMPUS IS NOT OCCUPIED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MONITORING AND MAINTAINING ALL FIRE WATCH LOGS.
4. ALL REMOVED AND/OR DEMOLISHED ELECTRICAL MATERIALS AND EQUIPMENT TO BE ACCOMPLISHED UNDER THIS CONTRACT, WHICH IN THE OPINION OF THE OWNER'S REPRESENTATIVE ARE DEEM SALVAGEABLE, SHALL REMAIN THE PROPERTY OF THE OWNER. ALL FIRE ALARM MATERIAL AND EQUIPMENT CONSIDERED NOT SALVAGEABLE SHALL BE REMOVED FROM THE SITE AND DISPOSED BY THE CONTRACTOR ACCORDINGLY.
5. WHERE REMOVAL OF AN EXISTING SYSTEM'S DEVICE WILL RESULT IN LOSS OF CIRCUIT CONTINUITY, THE ISOLATED PORTIONS OF THE CIRCUIT SHALL BE RECONNECTED TO PROVIDE SERVICE TO ALL REMAINING DEVICES. IF SITE CONDITIONS MAKE RECONNECTION IMPOSSIBLE, CONNECTION SHALL BE MADE FROM AN ADJACENT AVAILABLE DEVICE AS NOTED AND/OR AS DIRECTED BY THE ARCHITECT AND/OR THE OWNER'S REPRESENTATIVE.
6. WHEREVER EXISTING DEVICES, PANELS, CONDUITS, CABLES, ETC., CONFLICT WITH REMODEL WORK, WHETHER SHOWN OR NOT, RELOCATE THESE ITEMS AS DIRECTED BY THE ARCHITECT AND/OR OWNER'S REPRESENTATIVE AND REPAIR ALL SURFACES.
7. COORDINATE WITH OTHER TRADES AND PROMPTLY TRANSMIT ALL INFORMATION REQUIRED BY THEM. COORDINATE THE SEQUENCE OF DEMOLITION WITH OTHER TRADES TO ENSURE THAT ALL WORK PROCEEDS WITH A MINIMUM OF INTERFERENCE AND DELAY.
8. WHERE EXISTING WIRING OR EQUIPMENT IS ABANDONED AS A RESULT OF THIS CONTRACT, IT SHALL BE REMOVED INSOFAR AS POSSIBLE. THIS INCLUDES BUT IS NOT LIMITED TO:
   a. REMOVE ALL WIRE AND CABLE.
   b. REMOVE ALL DEVICES AND EQUIPMENT.
   c. REMOVE ALL EXPOSED CONDUIT AND CONDUIT IN ACCESSIBLE CONCEALED AREA, AS FAR AS POSSIBLE.
   d. CUT OFF AND CAP ALL ABANDONED CONDUIT. STUBS SHALL NOT BE PROTRUDED ABOVE FLOOR AND/OR FINISHED WALLS AND CEILINGS.

FIRE ALARM GENERAL NOTES

1. THE INTENT OF THESE DRAWINGS AND/OR SPECIFICATIONS DESCRIBE A COMPLETE, FUNCTIONING FIRE ALARM SYSTEM (INCLUDING VOICE EVACUATION PER SB575) WITH DEVICES, WIRING AND FIRE ALARM CONTROL PANEL TO MEET THE REQUIREMENTS OF NFPA 72 AND 2022 CALIFORNIA FIRE CODE AND APPLICABLE LOCAL FIRE MARSHALL REGULATIONS AND REQUIREMENTS.
2. LOCATIONS OF EXISTING EQUIPMENT AND DEVICES SHOWN ON THESE PLANS ARE BASED ON AVAILABLE AS–BUILT PLANS AND LIMITED SITE SURVEYS. CONTRACTOR SHALL THOROUGHLY INSPECT THE EXISTING SYSTEM AND SITE CONDITIONS BEFORE BID. ADVISE THE SCHOOL'S REPRESENTATIVE OF ALL CONDITIONS REQUIRING IMMEDIATE ATTENTION OR MIGHT CAUSE DIFFICULTIES THAT ARE NOT ADDRESSED, OR INFERRED TO, IN THE CONTRACT DRAWINGS AND SPECIFICATIONS PRIOR TO NEW CONSTRUCTION AND THE COMMENCEMENT OF THE GUARANTEE PERIOD.
3. CONTRACTOR SHALL SUBMIT ANY ALTERATIONS OF THE APPROVED CONSTRUCTION DOCUMENTS TO THE SPECIAL INSPECTOR AND DSA FOR NEW APPROVALS. START INSTALLATION OF THE SYSTEM AFTER DETAILED PLANS, SPECIFICATIONS, NEW SHOP DRAWINGS AND SUBMITTALS HAS BEEN APPROVED BY DSA. CONTRACTOR SHALL BE TOTALLY RESPONSIBLE FOR ANY DELAY.
4. PER DSA IR F–2 SECTION 1. WHEN, AS PART OF AN ALTERATION OR MODERNIZATION PROJECT OR CONSTRUCTION OF NEW BUILDING A FIRE PROTECTION/LIFE SAFETY IS PLACED OUT OF SERVICE AND AFFECTS ANY OCCUPIED PORTION OF AN EXISTING BUILDING UNDERGOING RENOVATION OR OCCUPIED BUILDINGS OR PORTIONS OF THE CAMPUS, THEN THE SCHOOL DISTRICT, DSA, AND THE ARCHITECT/ENGINEER IN GENERAL RESPONSIBLE CHARGE OF THE CONSTRUCTION PROJECT SHALL BE NOTIFIED IMMEDIATELY BY THE PROJECT INSPECTOR. IT WILL BE THE SCHOOL DISTRICT'S RESPONSIBILITY TO ESTABLISH, INSTRUCT AND MAINTAIN FIRE WATCH PERSONNEL IN/AT THE AFFECTED BUILDING(S). WHERE A FIRE ALARM SYSTEM IS OUT OF SERVICE, WARNING SIGNS SHALL BE POSTED AT ALL ENTRANCES TO ANY BUILDING TO INFORM THE OCCUPANTS. MODERNIZATIONS OF EXISTING BUILDINGS OR CONSTRUCTION OF NEW BUILDINGS THAT ARE NOT OCCUPIED BY THE PUBLIC, STAFF OR STUDENT DURING CONSTRUCTION, SHALL NOT REQUIRE A FIRE WATCH AS LONG AS THE CONSTRUCTION EFFORTS DO NOT AFFECT OTHER OCCUPIED AREAS OF THE BUILDING.
5. REQUEST FOR ADDITIONAL COSTS ASSOCIATED WITH RE–USE OF ANY EXISTING SYSTEM COMPONENT, INCLUDING CONDUITS, BOXES, CONTROL PANELS, ETC. WILL NOT BE CONSIDERED.
6. NO KNOWN EXISTING CEILING OR ATTIC SPACE IN ROOMS OR AREA WITH HARD CEILING. IF CEILING OR ATTIC SPACE OCCUR DURING FIELD CONSTRUCTION THAT REQUIRE ADDING DETECTORS ABOVE THE CEILING OR ATTIC SPACE, PROVIDE A CONSTRUCTION CHANGE DOCUMENT, OR A SEPARATE SHEET OF PLANS SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK.
7. THE FIRE ALARM SYSTEM SHALL CONFORM TO THE 2022 CALIFORNIA FIRE CODE, ARTICLE 907, CBC 305 AND 2022 CALIFORNIA ELECTRICAL CODE, ARTICLE 760.
8. FIRE ALARM SYSTEM SHALL TRANSMIT ALARM, SUPERVISORY AND TROUBLE SIGNAL TO AN APPROVED SUPERVISING STATION IN ACCORDANCE WITH 2022 NFPA 72 AND CBC 907.6.6.
9. CONTRACTOR SHALL PROVIDE A COMPLETE AND FUNCTIONAL CODE COMPLIANT SYSTEM WITH ALL REQUIRED HARDWARE, DEVICES, PROGRAMMING AND POINT/DEVICE DESCRIPTION SCHEDULES.
10. THE INSTALLING CONTRACTOR SHALL PROVIDE SYSTEM PROGRAMMING FOR SUPERVISORY MONITORING PER CBC 901.6.3.
11. OWNER SHALL BE RESPONSIBLE FOR ESTABLISHING A FIRE SYSTEM MONITORING CONTRACT OR PROVISIONS.
12. INSTALLATION OF THE FIRE ALARM SYSTEM SHALL NOT BE STARTED UNTIL DETAILED SPECIFICATIONS, INCLUDING CALIFORNIA STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM HAVE BEEN APPROVED BY THE CALIFORNIA STATE FIRE MARSHAL, AND THE LOCAL FIRE MARSHAL.
13. UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE ENFORCING AGENCY AND SPECIAL INSPECTOR. THE SCHOOL SHALL NOT BE IN OPERATION UNTIL THE IOR AND THE LOCAL FIRE MARSHAL HAS VERIFIED AND/OR SIGNED OFF ON OPERATIONAL CAPACITY OF THE FIRE ALARM SYSTEM.
14. ARCHITECT/ENGINEER AND OWNER SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE FINAL INSPECTION AND /OR TESTING.
15. CONTRACTOR SHALL SUBMIT THE SPECIAL INSPECTOR NFPA CERTIFICATE OF COMPLIANCE FORM TO THE SCHOOL REPRESENTATIVE FOR SUBMISSION TO THE FIRE DEPARTMENT.
16. BEFORE REQUESTING FINAL APPROVAL OF THE INSTALLATION, THE SYSTEM INSTALLING CONTRACTOR SHALL FURNISH A WRITTEN STATEMENT TO THE INSPECTOR OF RECORD TO THE EFFECT THAT THE SYSTEM HAS BEEN INSTALLED AND COMPLETELY TESTED IN ACCORDANCE WITH 2022 NFPA 72, SECTION 7.5.2 AND 7.6.
17. CONTRACTOR SHALL PROVIDE INTELLIGIBILITY TESTING USING INTELLIGIBILITY METERS APPROVED FOR SUCH USE. REFERENCE NFPA 72 CHAPTER 24. AN STI SCORE OF 7.0 IS A MINIMUM REQUIREMENT. CONTRACTOR SHALL IDENTIFY ALL ACOUSTICALLY DISTINGUISHABLE SPACES (ADS) ON CONTRACTOR SHOP DRAWINGS.
18. THE CONTRACTOR SHALL ADJUST/INSTALL ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS.
19. PROVIDE FIRE ALARM AUDIBLE SOUND LEVEL AT LEAST 15 DBA ABOVE THE AVERAGE AMBIENT SOUND LEVEL IN ALL OCCUPIED AREA, BUT NOT LESS THAN 75 DBA AT 10 FEET OR MORE THAN 120 DBA IN TOTAL, THROUGHOUT. SYNCHRONIZED TEMPORAL CODE 3 SOUND. (2022 NFPA 72, 18.4.2.1)
20. WALL MOUNTED VISIBLE NOTIFICATION DEVICES SHALL HAVE THEIR BOTTOMS MOUNTED AT 80" MINIMUM AND THEIR TOPS AT 96" MAXIMUM FROM FINISHED FLOOR.
21. WALL MOUNTED AUDIBLE NOTIFICATION DEVICES SHALL HAVE THEIR TOPS MOUNTED AT 90" MINIMUM FROM FINISHED FLOOR AND NO CLOSER THEN 6" TO A HORIZONTAL STRUCTURE.
22. A FLASHING VISUAL WARNING DEVICE HAVING A FREQUENCY OF NOT MORE THAN 60 FLASHES PER MINUTE [TWO (2) FLASHES OR LESS THAN ONE (1) FLASH PER SECOND] SHALL BE INSTALLED TO WARN THE HEARING–IMPAIRED AS SHOWN ON THE DRAWINGS. FLASHING VISUAL WARNING DEVICES VIEWABLE WITHIN THE SAME INTERIOR SPACE SHALL BE SYNCHRONIZED. (2022 NFPA 72, 18.5.3.1, 18.5.3.6 AND 18.5.5.7)
23. SMOKE DETECTORS SHALL NOT BE ANY CLOSER THAN 1' FROM FIRE SPRINKLERS OR 3' FROM ANY SUPPLY DIFFUSER. IN AREA OF CONSTRUCTION OR POSSIBLE DAMAGE/CONTAMINATION ON NEWLY INSTALLED FIRE ALARM, DEVICES SHALL BE COVERED UNTIL THAT AREA IS READY TO BE TURNED OVER TO THE OWNER.
24. LOCATE SMOKE AND HEAT DETECTORS AT LEAST ONE FOOT AWAY FROM FLUORESCENT LIGHT FIXTURES.
25. CONTRACTOR SHALL AFFIX TO EACH FIELD DEVICE A DEVICE LABEL. DEVICE LABEL SHALL BE ARRANGED FOLLOWING DETAIL "FIRE ALARM CIRCUIT IDENTIFIERS". INITIATION DEVICES CONNECTED TO EQUIPMENT BY OTHERS SHALL HAVE A LABEL AFFIXED TO MODULE INDICATING THE EQUIPMENT CONNECTED.
26. ALL PENETRATIONS THROUGH RATED ASSEMBLIES REQUIRING OPENING PROTECTION SHALL BE PROVIDED WITH A PENETRATION FIRE STOP SYSTEM AS IDENTIFIED IN CBC CHAPTER 7, UL OR OTHER APPROVED LAB TESTING CRITERIA. APPROVED TYPES OF MATERIALS SHALL BE IDENTIFIED WITHIN THE PROJECT SPECIFICATIONS WITHIN THE FIRE ALARM SECTION.
27. UNDERGROUND AND EXTERIOR CONDUITS TO HAVE WATER TIGHT FITTINGS AND WIRE TO BE APPROVED FOR WET LOCATIONS.
28. PER CEC STANDARDS, ALL WIRING IS TO BE PULLED THROUGH EACH JUNCTION BOX AND CONNECTED DIRECTLY TO EACH FIRE DEVICE. DO NOT SPLICE THE WIRE. ALL BOXES TO BE SIZED PER CEC.
29. ALL FIRE ALARM CIRCUITS SHALL BE IN CONDUIT OR RACEWAY WHEN PASSING THROUGH A FLOOR OR WALL TO A HEIGHT OF 7 FEET ABOVE THE FLOOR. FIRE ALARM WIRING ABOVE CEILING SHALL BE SUPPORTED BY THE BUILDING STRUCTURE SO AS NOT TO DAMAGE THE CABLE..
30. NO SPLICES SHALL BE ALLOWED FOR FIRE ALARM SYSTEM UNDERGROUND CABLES.
31. NEW FIRE ALARM WIRING SHALL NOT BE INSTALLED IN ANY RACEWAY WITH WIRING IN EXCESS OF 24 VOLT.
32. FIRE ALARM PANEL, REMOTES, AND COMPONENTS SHALL BE SECURED TO MOUNTING SURFACES PER MANUFACTURERS SPECIFICATIONS. NO SINGLE DEVICE SHALL EXCEED 20 LBS. WITHOUT SPECIAL MOUNTING DETAILS.
33. ALL FIRE ALARM EQUIPMENT BRANCH CIRCUITS SHALL BE DEDICATED AS PER 2022 NFPA 72, 10.6.5.1.2 AND ITS LOCATION BE CLEARLY LABELED AT THE FIRE ALARM CONTROL PANEL.
34. ALL FIRE ALARM EQUIPMENT POWER SOURCE CIRCUITS SHALL BE IDENTIFIED AT THE POWER SOURCE PER 2022 NFPA 72, 10.6.5.2. USING A RED CLEARLY MARKED DISCONNECT WITH LOCK–ON CAPABILITY. COORDINATE WITH ELECTRICAL.
35. MICROPHONES ASSOCIATED WITH EMERGENCY VOICE ALARM COMMUNICATION SYSTEMS (EVAC) SHALL BE ACCESSIBLE FOR USE, INSTALLED IN COMPLIANCE WITH CBC SECTIONS 11B–305 AND 11B–308.
36. WHERE ACCESSIBILITY IS NOT AVAILABLE TO THE NEW FIRE ALARM DEVICES LOCATED ABOVE THE CEILING/ATTIC SPACES, PROVIDE ACCESS PANELS TO THESE DEVICES, COORDINATE PRIOR TO THE EXECUTION OF WORK.
37. THE CONTRACTOR SHALL PROVIDE AS–BUILT SHOP DRAWINGS INDICATING CIRCUITING OF ALL DETECTOR AS AND OTHER DEVICES IN ALL THE BUILDINGS OF THIS PROJECT. AS–BUILT DRAWINGS SHALL BE STORED IN FIRE ALARM DOCUMENT CABINET INSTALLED ADJACENT TO FIRE ALARM CONTROL PANEL OR LOCATION APPROVED BY AUTHORITY HAVING JURISDICTION.
38. PROVIDE DOCUMENTATION CABINET TO BE INSTALLED PROXIMAL TO FACP (2022 NFPA 72, 7.7.2.1). ALL RECORD DOCUMENTATION SHALL BE STORED IN THE DOCUMENTATION CABINET (2022 NFPA 72 7.7.2.3). THE DOCUMENTATION CABINET TO BE PROMINENTLY LABELED "SYSTEM RECORD DOCUMENTS" (2022 NFPA 72 7.7.2.5).

EQUIPMENT ANCHORAGE NOTES

APPLICABLE CODE: 2022 CBC

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 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7–16 CHAPTERS 13, 26 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) 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.
3. 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:

A. 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.
B. 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 HUNG 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 WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING AND DUCTWORK DISTRIBUTION SYSTEM BRACING NOTES

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 2022 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., OSHPD 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 HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER 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 SPECIFIC NOTES AND DETAILS.

MP	MD	PP	E	
☐	☐	☐	☐	OPTION 2: SHALL COMPLY WITH HCAi (OSHPD) PRE–APPROVAL (OPM#) #________. AS INCLUDED IN THESE DRAWINGS WITH PROJECT–SPECIFIC NOTES AND DETAILS.

GOVERNING CODES & APPLICABLE STANDARDS

TITLE 24 CODES:
1. 2022 CALIFORNIA BUILDING STANDARD ADMINISTRATIVE CODE (CAC), (PART 1, TITLE 24, CCR).
2. 2022 CALIFORNIA BUILDING CODE (CBC), VOLUMES 1 AND 2 (PART 2, TITLE 24, CCR), (2021 EDITION INTERNATIONAL BUILDING CODE WITH 2022 CALIFORNIA AMENDMENTS).
3. 2022 CALIFORNIA ELECTRICAL CODE, (PART 3, TITLE 24, CCR), (2020 EDITION NATIONAL ELECTRICAL CODE WITH 2022 CALIFORNIA AMENDMENTS).
4. 2022 CALIFORNIA MECHANICAL CODE (CMC), (PART 4, TITLE 24, CCR), (2021 EDITION IAPMO UNIFORM WITH 2022 CALIFORNIA AMENDMENTS).
5. 2022 CALIFORNIA PLUMBING CODE (CPC), (PART 5, TITLE 24, CCR), (2021 EDITION IAPMO UNIFORM PLUMBING CODE WITH 2022 CALIFORNIA AMENDMENTS).
6. 2022 CALIFORNIA ENERGY CODE, (PART 6, TITLE 24. CCR), (2022 EDITION CALIFORNIA ENERGY COMMISSION BUILDING ENERGY EFFICIENCY STANDARDS).
7. 2022 CALIFORNIA FIRE CODE (CFC), (PART 9, TITLE 24, CCR) (2021 EDITION INTERNATIONAL FIRE CODE WITH 2022 CALIFORNIA AMENDMENTS).
8. 2022 CALIFORNIA REFERENCE CODE, (PART 12, TITLE 24. CCR).

REFERENCE CODE SECTIONS FOR APPLICABLE STANDARDS:

1. 2022 CBC, CHAPTER 35.
2. 2022 CFC, CHAPTER 80.
3. 2022 NFPA 72, AS AMENDED.

FIRE ALARM MONITORING NOTE

AUTOMATIC FIRE ALARM SYSTEMS SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY 2022 NFPA 72 AS AMENDED BY ARTICLE 91. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UUFX OR UUJS BY UNDERWRITERS LABORATORY OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011. SUPERVISION OF SYSTEM AND LEASED TELEPHONE LINES SHALL BE ARRANGED BY DISTRICT.

FIRE ALARM SHEET INDEX

SHEET NO.	SHEET TITLE
FA0.01	FIRE ALARM SHEET INDEX, ABBREVIATIONS, AND NOTES
FA0.03	FIRE ALARM RISER DIAGRAM AND BATTERY CALCULATIONS
FA1.01	FIRE ALARM SITE PLAN
FAD2.01	FIRE ALARM DEMOLITION PLAN
FA2.01	FIRE ALARM 1ST FLOOR PLAN
FA4.01	FIRE ALARM ROOF PLAN
FA7.01	FIRE ALARM DETAILS AND SEQUENCE OF OPERATIONS

FIRE ALARM DEVICE LEGEND

SYMBOL	QTY	EXISTING	MANUFACTURER	PART NO	DESCRIPTION	CSFM
FACU	1	EXISTING	NOTIFIER	NFS2-3030D (FACP)	FACP, ADDRESSABLE, CPU2-3030D, 1X LCM-320, 1X LEM-320, 1X AMPS-24, 1X HS-NCM-SF, 2X DAA2-5070-CLA, 2 BDA-70V, 4X DS-SFM, 1X ACPS-610, 1X SBB-D4, 1X EQDR-D4R - CONFIGURATION 2208011	7165-0028:0224
	1	EXISTING	NOTIFIER	LEM-320	LOOP EXPANDER MODULE, PROVIDES EVEN NUMBERED SLC LOOPS	7165-0028:0224
	1	EXISTING	NOTIFIER	HS-NCM-SF	HIGH-SPEED NETWORK COMMUNICATIONS MODULES	7165-0028:0224
	1	EXISTING	NOTIFIER	EQDR-D4R	EQUIPMENT DOOR ASSEMBLY, VENTED, 4 TIERS, RED	7165-0028:0224
	1	EXISTING	NOTIFIER	ACPS-610	6.0 A OR 10.0 A ADDRESSABLE CHARGING POWER SUPPLY	7165-0028:0224
	1	EXISTING	NOTIFIER	CPU2-3030D	NFS2-3030 FIRE ALARM CONTROL PANEL MAIN BOARD (CENTRAL PROCESSING UNIT), 120V POWER, INCLUDES CHASSIS, DISPLAY OPTION	7165-0028:0224
	4	EXISTING	NOTIFIER	DS-SFM	FIBER OPTION MODULE	7165-0028:0224
	1	NEW	NOTIFIER	DAA2-5070	120 VAC DIGITAL AUDIO AMPLIFIER (50 W, 70VRMS), MAX ALARM CURRENT	7165-0028:0224
	2	EXISTING	NOTIFIER	NFC-BDA-70V (50W, 70V)	EXPANSION CARD 50W 70V	7165-0028:0224
	1	EXISTING	NOTIFIER	SBB-D4	BACKBOX ASSEMBLY, FOUR TIERS, BLACK, 40 LBS.	7165-0028:0224
	1	EXISTING	NOTIFIER	LCM-320	LOOP CONTROL MODULE	7165-0028:0224
	1	EXISTING	NOTIFIER	AMPS-24	ADDRESSABLE POWER SUPPLY/BATTERY CHARGER	7165-0028:0224
NAC	1	EXISTING	NOTIFIER	FCPS-24S6	6-AMP, 24-VOLT POWER SUPPLY	7315-0028:0225
	1	EXISTING	NOTIFIER	FCPS-24S6 MAIN BOARD	FIRE ALARM POWER SUPPLY MAIN BOARD	7315-0028:0225
F	9	NEW	NOTIFIER	NBG-12LX	DUAL-ACTION ADDRESSABLE PULL STATION. INCLUDES KEY LOCKING FEATURE.	7150-0028:0199
AIM	1	NEW	NOTIFIER	FMM-1	ADDRESSABLE MONITOR MODULE W/ FLASHSCAN, SUPERVISES CLASS A OR CLASS B OF DRY CONTACT INPUT	7300-0028:0219
AOM	6	NEW	NOTIFIER	FRM-1	ADDRESSABLE RELAY MODULE W/ FLASHSCAN, 2 FORM-C DRY CONTACTS	7300-0028:0219
S	6	NEW	NOTIFIER	DNR W/FSP-951R	INTELLIGENT NON-RELAY PHOTOELECTRIC DUCT DETECTOR/ FSP-951R. FLASHSCAN AND CLIP MODE.	3240-1653:0209 7272-0028:0503
H	7	NEW	NOTIFIER	FST-951 W/B300-6	LOW-PROFILE 135°F FIXED THERMAL SENSOR. FLASHSCAN ONLY.	7270-0028:0502 7300-1653:0109
H	31	NEW	NOTIFIER	FST-951H W/B300-6	LOW-PROFILE INTELLIGENT 190°F/88°C FIXED THERMAL SENSOR. FLASHSCAN ONLY.	7270-0028:0502 7300-1653:0109
S	37	NEW	NOTIFIER	FSP-951 W/B300-6	ADDRESSABLE LOW-PROFILE PHOTOELECTRIC SMOKE DETECTOR. FLASHSCAN ONLY.	7272-0028:0503 7300-1653:0109
⊠ WP	5	NEW	SYSTEM SENSOR	SPSRK	OUTDOOR SPEAKER STROBE, STANDARD CD	7320-1653:0201
⊠ C	13	NEW	SYSTEM SENSOR	SPSCWL	SPEAKER/STROBE CEILING MOUNT, WHITE	7320-1653:0505
☓	6	NEW	SYSTEM SENSOR	SWLED	STROBE, WALL, WHITE	7300-1653:0525

FIRE ALARM CABLE SCHEDULE

TYPE	DESCRIPTION		JACKET COLOR	SERVES	ENVIRONMENT USE	NOTES
A	2#16 UTP	FPLR, SOLID	RED/BLK	SLC INTELLIGENT LOOP	INTERIOR	
B	2#14 UTP	FPLR, SOLID	RED/BLK	NAC STROBE (VISUAL)	INTERIOR	
C	2#16 STP	FPLR, SOLID	RED/BLK	VOICE (SPEAKER)	INTERIOR	
D	2#16 UTP	FPLR, SOLID	RED/BLK	IDC CIRCUIT	INTERIOR	
E	2#16 UTP	FPLR, SOLID	RED/BLK	FAA RS485 COMM	INTERIOR	
P	2#14 UTP	FPLR, SOLID	RED/BLK	24VDC POWER	INTERIOR	
R	2#16 UTP	FPLR, SOLID	RED/BLK	SPEAKER RISER	INTERIOR	
AU	2#16 UTP	WP#AQ225	RED/BLK	SLC ADDRESS LOOP	EXTERIOR/UDGND	DIRECT BURIAL CABLE
BU	2#14 UTP	WP#AQ226	RED/BLK	NAC STROBE (VISUAL)	EXTERIOR/UDGND	DIRECT BURIAL CABLE
CU	2#16 STP	WP#AQ294	RED/BLK	NAC VOICE (SPEAKER)	EXTERIOR/UDGND	DIRECT BURIAL CABLE
DU	2#16 STP	WP#AQ225	RED/BLK	IDC CIRCUIT	EXTERIOR/UDGND	DIRECT BURIAL CABLE
EU	2#16 UTP	WP#AQ225	RED/BLK	FAA RS485 COMM	EXTERIOR/UDGND	DIRECT BURIAL CABLE
PU	2#14 UTP	WP#AQ226	RED/BLK	24VDC POWER	EXTERIOR/UDGND	DIRECT BURIAL CABLE
RU	2#16 UTP	WP#AQ225	RED/BLK	SPEAKER RISER	EXTERIOR/UDGND	DIRECT BURIAL CABLE

NOTES:

1. ALL CONDUCTORS SHALL BE COPPER AND SOLID – STRANDED CONDUCTOR IS NOT ACCEPTABLE
2. MINIMUM CONDUIT SIZE IS 3/4" – CONCEALED IN CEILING SPACE OR APPROPRIATE WALLS.
3. ALL SURFACE ROUTED RACEWAYS SHALL BE WIREMOLD OR APPROVED EQUAL.

CABLE ABBREVIATIONS:

STP	SHIELDED TWISTED PAIR	PA	PUBLIC ADDRESS
SLC	SIGNAL LINE CIRCUIT	UTP	UNSHIELDED TWISTED PAIR
NAC	NOTIFICATION APPLIANCE CIRCUIT	WP	WEST PENN (CABLE MANUFACTURER)
IDC	INITIATE DEVICE CIRCUIT		

DEVICE DESIGNATION LEGEND

SCOPE OF WORK AND BUILDING INFORMATION

1. REMOVE AND REPLACE EXISTING FIRE ALARM APPLIANCES WITH NEW. INTEGRATE NEW APPLIANCES TO EXISTING CAMPUS FIRE ALARM SYSTEM

OCCUPANCY CLASSIFICATION: A2.1

TYPE OF CONSTRUCTION: V–1 HR

NUMBER OF STORIES: 1

SPRINKLER PROTECTION: NO

ALTERNATIVE PROTECTION: NOT APPLICABLE

TYPE OF SYSTEM: MANUAL, AUTOMATIC FIRE ALARM SYSTEM

AGENCY APPROVAL:

REVIEWING AGENCIES
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Sacramento City
UNIFIED SCHOOL DISTRICT

HMC Architects

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LUTHER BURBANK HIGH SCHOOL

3500 FLORIN RD
SACRAMENTO, CA 95823

PROJECT:

LUTHER BURBANK HIGH SCHOOL CAFETERIA MODERNIZATION

SHEET NAME:

FIRE ALARM SHEET INDEX, ABBREVIATIONS, AND NOTES

DSA SUBMITTAL

DATE: **09/18/2024**
CLIENT PROJ NO: **3186071000**

SHEET:

FA0.01

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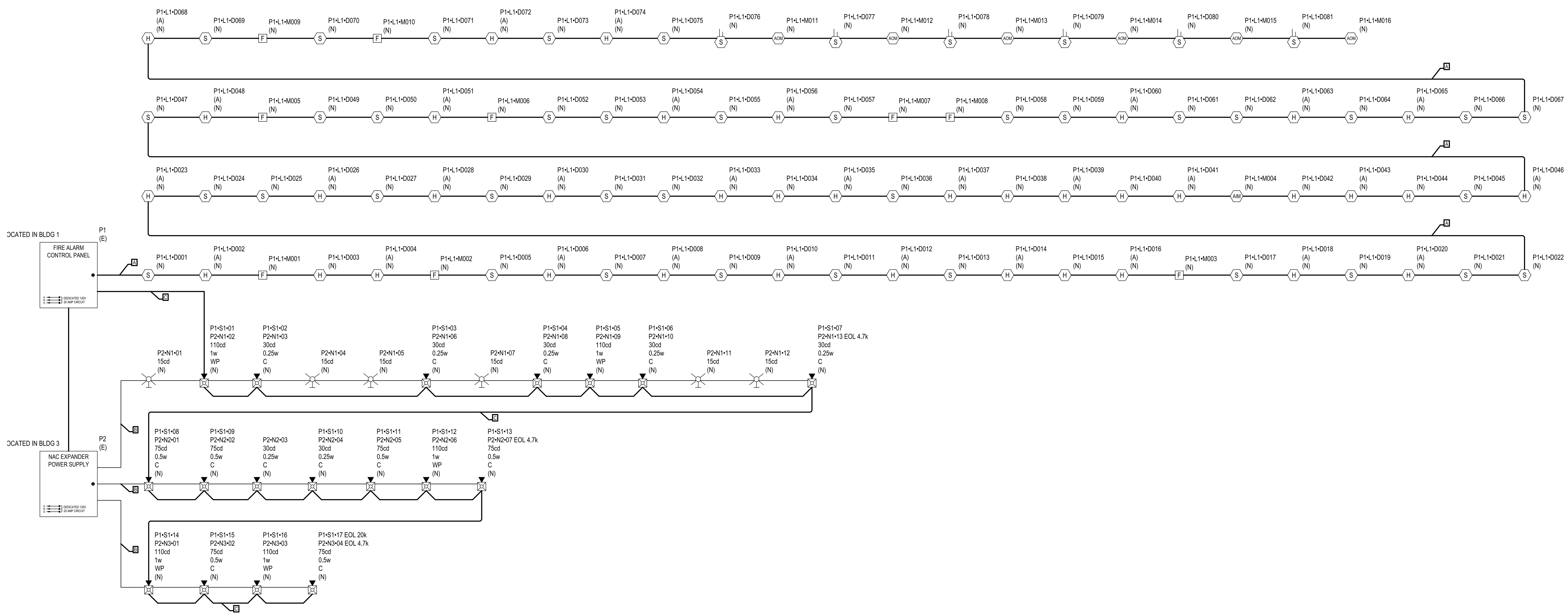

1 FIRE ALARM RISER DIAGRAM

PANEL P1 (NFS2-3030D (FACP)) BATTERY CALCULATION								
(SECONDARY POWER SOURCE REQUIREMENTS)								
*PANEL POWER REQUIREMENT OF 8.0635A EXCEEDS AVAILABLE CAPACITY OF 5.5A								
					STANDBY CURRENT (AMPS)		SECONDARY ALARM CURRENT (AMPS)	
PANEL COMPONENTS		QTY	PART NO.	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL
		1	ACPS-610	6.0 A or 10.0 A Addressable Charging Power Supply	0.09	**0.09**	0.09	**0.09**
		1	AMPS-24	Addressable Power Supply/Battery Charger	0.13	**0.13**	0	**0**
		1	CPU2-3030D	NFS2-3030 Fire Alarm Control Panel Main Board (Central Processing Unit), 120V Power, Includes Chassis, Display Option	0.34	**0.34**	0.34	**0.34**
		1	DAA2-5070	120 VAC Digital Audio Amplifier (50 W, 70VRMS), Max Alarm Current	0.4	**0.4**	3.75	**3.75**
		1	HS-NCM-SF	High-speed Network Communications Modules	0.4	**0.4**	0.4	**0.4**
		1	LCM-320	Loop Control Module	0.13	**0.13**	0.13	**0.13**
		1	LEM-320	Loop Expander Module, Provides Even Numbered SLC Loops	0.1	**0.1**	0.1	**0.1**
		2	NFC-BDA-70v (50W, 70V)	Expansion Card 50W 70V	0.11	**0.22**	1.4	**2.8**
CIRCUIT	SYMBOL	QTY	PART NO	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
P1•L1	S (duct)	6	DNR w/FSP-951R	Intelligent Non-Relay Photoelectric Duct Detector/ FSP-951R. FlashScan and CLIP mode.	0.0002	**0.0012**	0.0045	**0.027**
	AIM	1	FMM-1	Addressable Monitor Module W/ FlashScan, Supervises Class A or Class B of Dry Contact Input	0.00035	**0.00035**	0.005	**0.005**
	AOM	6	FRM-1	Addressable Relay Module W/ FlashScan, 2 Form-C Dry Contacts	0.000255	**0.00153**	0.0065	**0.039**
	S	37	FSP-951 w/B300-6	Addressable low-profile photoelectric smoke detector. FlashScan only.	0.0002	**0.0074**	0.0045	**0.1665**
	H	7	FST-951 w/B300-6	Low-profile 135°F fixed thermal sensor. FlashScan only.	0.0002	**0.0014**	0.0045	**0.0315**
	H	31	FST-951H w/B300-6	Low-profile intelligent 190°F/88°C fixed thermal sensor. FlashScan only.	0.0002	**0.0062**	0.0045	**0.1395**
	F	9	NBG-12LX	Dual-action addressable pull station. Includes key locking feature.	0.000375	**0.003375**	0.005	**0.045**
P1•S1	C	6	SPSCWL	Speaker/Strobe Ceiling Mount, White 0.25w	0	**0**	0	**0**
	C	6	SPSCWL	Speaker/Strobe Ceiling Mount, White 0.5w	0	**0**	0	**0**
	WP	5	SPSRK	Outdoor Speaker Strobe, Standard cd 1w	0	**0**	0	**0**
					TOTAL STANDBY (A)	**1.831455**	TOTAL ALARM (A)	**8.0635**
					REQUIRED STANDBY TIME = 24 HOURS			
					REQUIRED ALARM TIME = 15 MINUTES			
SECONDARY STANDBY LOAD (A)				**1.831455**	24		**43.95**	
SECONDARY ALARM LOAD (A)				**8.0635**	0.25		**2.02**	
STANDBY AND ALARM SUBTOTAL (AMP HOURS)					**45.97**			
DERATING FACTOR					1.25			
SECONDARY LOAD REQUIREMENTS (AMP HOURS)					**57.46**			
PROVIDE (2) 12V 100AH BATTERIES								
*BATTERY BOX SIZE CAPACITY NOT SPECIFIED. REFER TO MANUFACTURER DOCUMENTATION.								

P2 N1 LUMP SUM REPORT				CIRCUIT SETTINGS		TOTALS	
				Starting Calculation Voltage:	20.4	Max. Voltage Drop:	**1.43**
				Min. Operational Voltage:	16	End Of Line Voltage:	**18.97**
				Max. Circuit Current (A):	3	Voltage Drop Percent:	**7.02 %**
				Wire Resistance (Ω/kFt):	3.07	Total Circuit Current (A):	**0.827**
Circuit Wiring Properties: 'V' 14/2 FPLP/R (NAC) 14 AWG, 2 Cond. Solid Copper FPLP/R Analog Unshielded				Total Circuit Length (Ft):	282	Spare Current (A):	**2.173**
Distance measured using drawn segment lengths with 10.00 % additional length calculated				Total Circuit Resistance (Ω):	1.731613	Spare Current (A) Percent:	**72.43 %**
DEVICE TOTALS	Symbol	Part No.	Description	Qty.	Device Current (A)	Total Current (A)	
	Strobe	SWLED	Strobe, Wall, White 15cd	6	0.018	**0.108**	
	C	SPSCWL	Speaker/Strobe Ceiling Mount, White 30cd	5	0.063	**0.315**	
	WP	SPSRK	Outdoor Speaker Strobe, Standard cd 110cd	2	0.202	**0.404**	
Calculation Methods:							
Total Resistance (Ω) = Wire Resistance (Ω/Ft) x 2 x Total Circuit Length (Ft)							
Total Voltage Drop = Total Resistance (Ω) x Total Circuit Current (A)							

PANEL P2 (FCPS-24S6) BATTERY CALCULATION							
(SECONDARY POWER SOURCE REQUIREMENTS)							
PANEL POWER SUPPLY MAX CURRENT = 6A					TOTAL USED CAPACITY (IN ALARM) = 2.37A (39.50 %)		
				STANDBY CURRENT (AMPS)		SECONDARY ALARM CURRENT (AMPS)	
PANEL COMPONENTS		QTY	PART NO.	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL
		1	FCPS-24S6 MAIN BOARD	Fire Alarm Power Supply Main Board	0.091	**0.091**	0.145	**0.145**
CIRCUIT	SYMBOL	QTY	PART NO	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
P2•N1	C	5	SPSCWL	Speaker/Strobe Ceiling Mount, White 30cd	0	**0**	0.063	**0.315**
	WP	2	SPSRK	Outdoor Speaker Strobe, Standard cd 110cd	0	**0**	0.202	**0.404**
	Strobe	6	SWLED	Strobe, Wall, White 15cd	0	**0**	0.018	**0.108**
P2•N2	C	2	SPSCWL	Speaker/Strobe Ceiling Mount, White 30cd	0	**0**	0.063	**0.126**
	C	4	SPSCWL	Speaker/Strobe Ceiling Mount, White 75cd	0	**0**	0.111	**0.444**
	WP	1	SPSRK	Outdoor Speaker Strobe, Standard cd 110cd	0	**0**	0.202	**0.202**
P2•N3	C	2	SPSCWL	Speaker/Strobe Ceiling Mount, White 75cd	0	**0**	0.111	**0.222**
	WP	2	SPSRK	Outdoor Speaker Strobe, Standard cd 110cd	0	**0**	0.202	**0.404**
					TOTAL STANDBY (A)	**0.091**	TOTAL ALARM (A)	**2.37**
					REQUIRED STANDBY TIME = 24 HOURS			
					REQUIRED ALARM TIME = 15 MINUTES			
SECONDARY STANDBY LOAD (A)				**0.091**	24		**2.18**	
SECONDARY ALARM LOAD (A)				**2.37**	0.25		**0.59**	
STANDBY AND ALARM SUBTOTAL (AMP HOURS)					**2.78**			
DERATING FACTOR					1.25			
SECONDARY LOAD REQUIREMENTS (AMP HOURS)					**3.47**			
PROVIDE (2) 12V 7AH BATTERIES								
*BATTERY BOX SIZE CAPACITY NOT SPECIFIED. REFER TO MANUFACTURER DOCUMENTATION.								

P2 N2 LUMP SUM REPORT				CIRCUIT SETTINGS		TOTALS	
				Starting Calculation Voltage:	20.4	Max. Voltage Drop:	**1.72**
				Min. Operational Voltage:	16	End Of Line Voltage:	**18.68**
				Max. Circuit Current (A):	3	Voltage Drop Percent:	**8.41 %**
				Wire Resistance (Ω/kFt):	3.07	Total Circuit Current (A):	**0.772**
Circuit Wiring Properties: 'V' 14/2 FPLP/R (NAC) 14 AWG, 2 Cond. Solid Copper FPLP/R Analog Unshielded				Total Circuit Length (Ft):	362	Spare Current (A):	**2.228**
Distance measured using drawn segment lengths with 10.00 % additional length calculated				Total Circuit Resistance (Ω):	2.222521	Spare Current (A) Percent:	**74.27 %**
DEVICE TOTALS	Symbol	Part No.	Description	Qty.	Device Current (A)	Total Current (A)	
	C	SPSCWL	Speaker/Strobe Ceiling Mount, White 30cd	2	0.063	**0.126**	
	C	SPSCWL	Speaker/Strobe Ceiling Mount, White 75cd	4	0.111	**0.444**	
	WP	SPSRK	Outdoor Speaker Strobe, Standard cd 110cd	1	0.202	**0.202**	
Calculation Methods:							
Total Resistance (Ω) = Wire Resistance (Ω/Ft) x 2 x Total Circuit Length (Ft)							
Total Voltage Drop = Total Resistance (Ω) x Total Circuit Current (A)							

P2 N3 LUMP SUM REPORT				CIRCUIT SETTINGS		TOTALS	
				Starting Calculation Voltage:	20.4	Max. Voltage Drop:	**1.29**
				Min. Operational Voltage:	16	End Of Line Voltage:	**19.11**
				Max. Circuit Current (A):	3	Voltage Drop Percent:	**6.34 %**
				Wire Resistance (Ω/kFt):	3.07	Total Circuit Current (A):	**0.626**
Circuit Wiring Properties: 'V' 14/2 FPLP/R (NAC) 14 AWG, 2 Cond. Solid Copper FPLP/R Analog Unshielded				Total Circuit Length (Ft):	337	Spare Current (A):	**2.374**
Distance measured using drawn segment lengths with 10.00 % additional length calculated				Total Circuit Resistance (Ω):	2.066189	Spare Current (A) Percent:	**79.13 %**
DEVICE TOTALS	Symbol	Part No.	Description	Qty.	Device Current (A)	Total Current (A)	
	C	SPSCWL	Speaker/Strobe Ceiling Mount, White 75cd	2	0.111	**0.222**	
	WP	SPSRK	Outdoor Speaker Strobe, Standard cd 110cd	2	0.202	**0.404**	
Calculation Methods:							
Total Resistance (Ω) = Wire Resistance (Ω/Ft) x 2 x Total Circuit Length (Ft)							
Total Voltage Drop = Total Resistance (Ω) x Total Circuit Current (A)							

2 FIRE ALARM BATTERY CALCULATIONS

AGENCY APPROVAL:

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Sacramento City UNIFIED SCHOOL DISTRICT

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3500 FLORIN RD
SACRAMENTO, CA 95823

PROJECT:
LUTHER BURBANK HIGH SCHOOL CAFETERIA MODERNIZATION

SHEET NAME:
FIRE ALARM RISER DIAGRAM AND BATTERY CALCULATIONS

DSA SUBMITTAL

DATE: 09/18/2024 CLIENT PROJ NO: 3186071000

SHEET:
FA0.03

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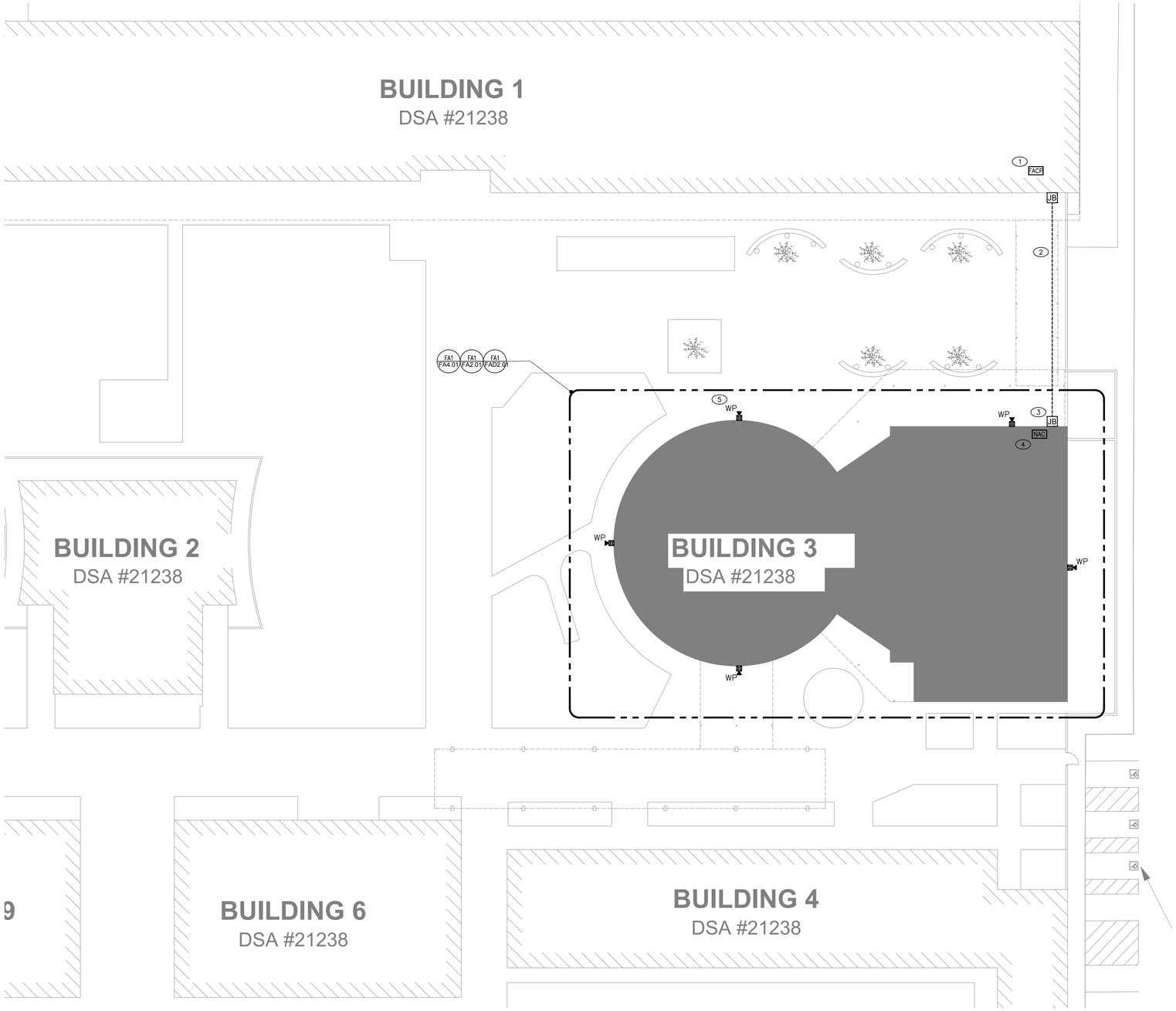

GENERAL NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS, PRIOR TO ANY WORKS, AND REPORT TO ENGINEERS ANY DISCREPANCIES.
2. UNDERGROUND CONDUITS SHALL BE SCH-40 PVC.
3. ALL EXISTING FIRE ALARM EQUIPMENT, DEVICES, CONDUIT AND WIRING, ETC., WHERE SHOWN ON PLANS ARE BASED ON AVAILABLE EXISTING DOCUMENTS AND LIMITED SITE SURVEY AND ARE SHOWN FOR CLARITY. IT SHALL BE REGARDED AS AN APPROXIMATION ONLY. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT. PRIOR TO SUBMITTING BID AND BEFORE START OF ANY ELECTRICAL WORK, CONTRACTOR SHALL VERIFY ON-SITE ALL EXISTING LOCATIONS AND CONDITIONS TO ASCERTAIN ALL WORK REQUIRED.
4. EXISTING FIRE ALARM SYSTEM SHALL REMAIN ACTIVE UNTIL CONSTRUCTION IS COMPLETED. CAUSE AS LITTLE INTERFERENCE OR INTERRUPTION OF EXISTING FIRE ALARM SYSTEMS AND/OR OTHER EXISTING FACILITY'S SYSTEMS AND SERVICES AS POSSIBLE. CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE AT LEAST 72 HOURS TO SCHEDULE ALL NECESSARY SHUTDOWNS. SHUTDOWN WORK SHALL BE PERFORMED AFTER THE NORMAL OPERATION HOURS OF THE FACILITY, IF SO DIRECTED BY THE OWNER'S REPRESENTATIVE.
5. FIRE WATCH IN CONFORMANCE WITH THE CALIFORNIA FIRE CODE SHALL BE PROVIDED AT THE DIRECTION OF THE CONTRACTOR FOR EVERY OFF-LINE BUILDING. THE SCHOOL SHALL ASSIST WITH FIRE WATCH ACTIVITIES DURING SCHOOL HOURS AND WHENEVER THE CAMPUS IS OCCUPIED BY STUDENTS, TEACHERS AND STAFF. THE CONTRACTOR SHALL PROVIDE ALL FIRE WATCH ACTIVITIES AFTER SCHOOL HOURS AND WHENEVER THE CAMPUS IS NOT OCCUPIED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MONITORING AND MAINTAINING ALL FIRE WATCH LOGS.
6. ALL REMOVED AND/OR DEMOLISHED ELECTRICAL MATERIALS AND EQUIPMENT TO BE ACCOMPLISHED UNDER THIS CONTRACT, WHICH IN THE OPINION OF THE OWNER'S REPRESENTATIVE ARE DEEM SALVAGEABLE, SHALL REMAIN THE PROPERTY OF THE OWNER. ALL FIRE ALARM MATERIAL AND EQUIPMENT CONSIDERED NOT SALVAGEABLE SHALL BE REMOVED FROM THE SITE AND DISPOSED BY THE CONTRACTOR ACCORDINGLY.
7. WHERE REMOVAL OF AN EXISTING SYSTEM'S DEVICE WILL RESULT IN LOSS OF CIRCUIT CONTINUITY, THE ISOLATED PORTIONS OF THE CIRCUIT SHALL BE RECONNECTED TO PROVIDE SERVICE TO ALL REMAINING DEVICES. IF SITE CONDITIONS MAKE RECONNECTION IMPOSSIBLE, CONNECTION SHALL BE MADE FROM AN ADJACENT AVAILABLE DEVICE AS NOTED AND/OR AS DIRECTED BY THE ARCHITECT AND/OR THE OWNER'S REPRESENTATIVE.
8. WHEREVER EXISTING DEVICES, PANELS, CONDUITS, CABLES, ETC., CONFLICT WITH REMODEL WORK, WHETHER SHOWN OR NOT, RELOCATE THESE ITEMS AS DIRECTED BY THE ARCHITECT AND/OR OWNER'S REPRESENTATIVE AND REPAIR ALL SURFACES.
9. COORDINATE WITH OTHER TRADES AND PROMPTLY TRANSMIT ALL INFORMATION REQUIRED BY THEM. COORDINATE THE SEQUENCE OF DEMOLITION WITH OTHER TRADES TO ENSURE THAT ALL WORK PROCEEDS WITH A MINIMUM OF INTERFERENCE AND DELAY.
10. WHERE EXISTING WIRING OR EQUIPMENT IS ABANDONED AS A RESULT OF THIS CONTRACT, IT SHALL BE REMOVED INSOFAR AS POSSIBLE. THIS INCLUDES BUT IS NOT LIMITED TO:
    a. REMOVE ALL WIRE AND CABLE.
    b. REMOVE ALL DEVICES AND EQUIPMENT.
    c. REMOVE ALL EXPOSED CONDUIT AND CONDUIT IN ACCESSIBLE CONCEALED AREA, AS FAR AS POSSIBLE.
    d. CUT OFF AND CAP ALL ABANDONED CONDUIT. STUBS SHALL NOT BE PROTRUDED ABOVE FLOOR AND/OR FINISHED WALLS AND CEILINGS.

KEY NOTES

1. (E) FIRE ALARM CONTROL PANEL
2. (E) UNDERGROUND 3/4" C CONDUIT
3. (E) UNDERGROUND PULL BOX
4. (E) POWER SUPPLY TO BE REUSED IF IN GOOD WORKING ORDER.
5. (N) EXTERIOR WEATHERPROOF SPEAKER STROBE MOUNTED AT 80" TYP. UNO. REFERENCE DETAIL 1/FA7.01.

PN

FIRE ALARM SITE PLAN | FA1 | 1/16" = 1'-0"

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Job #: 24-2001

REGISTERED PROFESSIONAL ENGINEER
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No. E 16765
Exp. 9/30/26
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3500 FLORIN RD
SACRAMENTO, CA 95823

PROJECT:
LUTHER BURBANK HIGH SCHOOL CAFETERIA MODERNIZATION

SHEET NAME:
FIRE ALARM SITE PLAN

DSA SUBMITTAL

DATE: **09/18/2024** | CLIENT PROJ NO: **3186071000**

SHEET:

FA1.01

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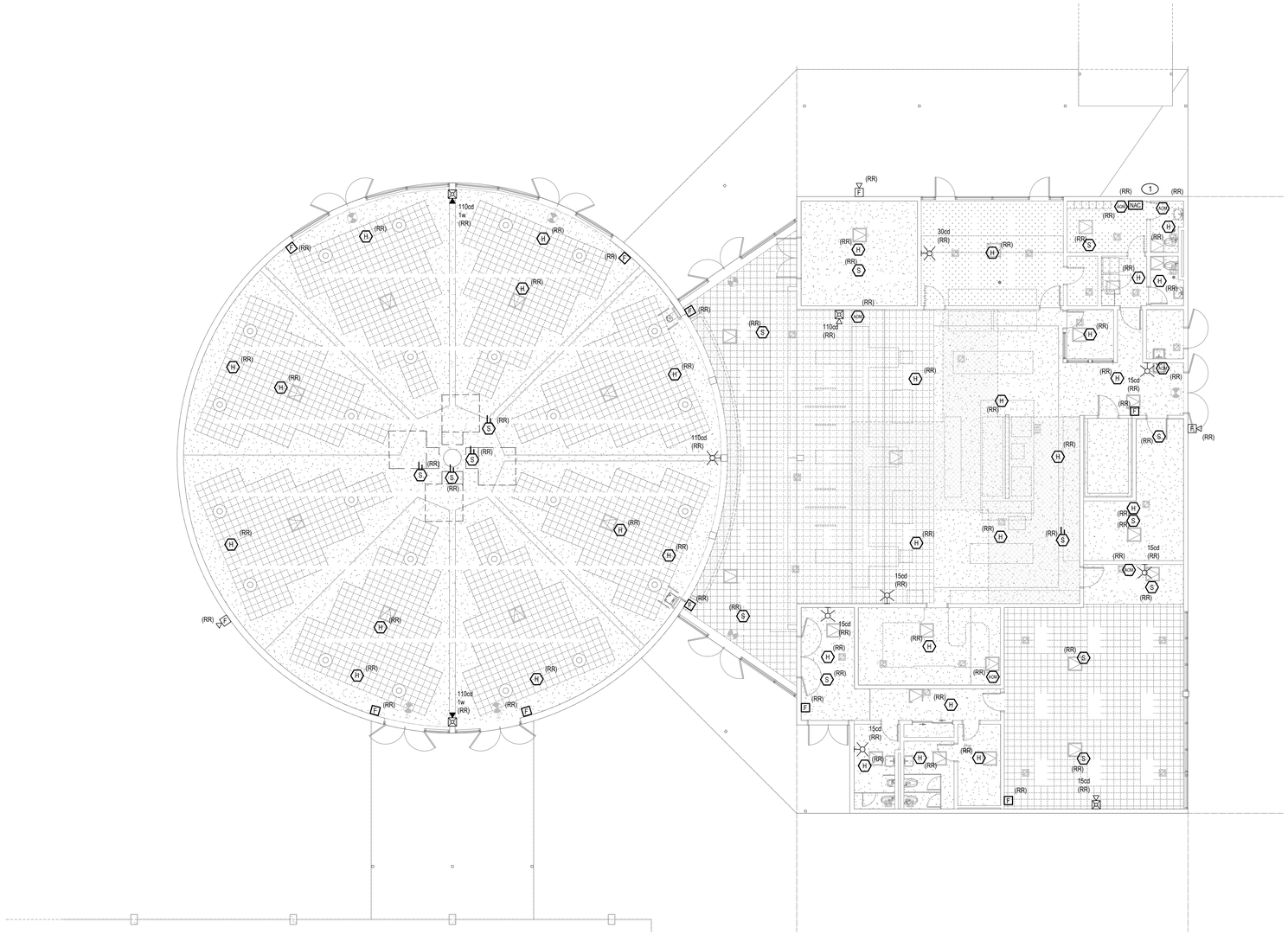

FIRE ALARM DEMOLISHTION PLAN

FA1
1/8" = 1'-0"

PN

GENERAL NOTES

1. FIELD VERIFY ALL (RR)ISTING CONDITIONS, PRIOR TO ANY WORKS, AND REPORT TO ENGINEERS ANY DISCREPANCIES.

2. UNDERGROUND CONDUITS SHALL BE SCH-40 PVC.

3. ALL (RR)ISTING FIRE ALARM EQUIPMENT, DEVICES, CONDUIT AND WIRING, ETC., WHERE SHOWN ON PLANS ARE BASED ON AVAILABLE (RR)ISTING DOCUMENTS AND LIMITED SITE SURVEY AND ARE SHOWN FOR CLARITY. IT SHALL BE REGARDED AS AN APPROXIMATION ONLY. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT. PRIOR TO SUBMITTING BID AND BEFORE START OF ANY ELECTRICAL WORK, CONTRACTOR SHALL VERIFY ON-SITE ALL (RR)ISTING LOCATIONS AND CONDITIONS TO ASCERTAIN ALL WORK REQUIRED.

4. (RR)ISTING FIRE ALARM SYSTEM SHALL REMAIN ACTIVE UNTIL CONSTRUCTION IS COMPLETED. CAUSE AS LITTLE INTERFERENCE OR INTERRUPTION OF (RR)ISTING FIRE ALARM SYSTEMS AND/OR OTHER (RR)ISTING FACILITY'S SYSTEMS AND SERVICES AS POSSIBLE. CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE AT LEAST 72 HOURS TO SCHEDULE ALL NECESSARY SHUTDOWNS. SHUTDOWN WORK SHALL BE PERFORMED AFTER THE NORMAL OPERATION HOURS OF THE FACILITY, IF SO DIRECTED BY THE OWNER'S REPRESENTATIVE.

5. FIRE WATCH IN CONFORMANCE WITH THE CALIFORNIA FIRE CODE SHALL BE PROVIDED AT THE DIRECTION OF THE CONTRACTOR FOR EVERY OFF-LINE BUILDING. THE SCHOOL SHALL ASSIST WITH FIRE WATCH ACTIVITIES DURING SCHOOL HOURS AND WHENEVER THE CAMPUS IS OCCUPIED BY STUDENTS, TEACHERS AND STAFF. THE CONTRACTOR SHALL PROVIDE ALL FIRE WATCH ACTIVITIES AFTER SCHOOL HOURS AND WHENEVER THE CAMPUS IS NOT OCCUPIED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MONITORING AND MAINTAINING ALL FIRE WATCH LOGS.

6. ALL REMOVED AND/OR DEMOLISHED ELECTRICAL MATERIALS AND EQUIPMENT TO BE ACCOMPLISHED UNDER THIS CONTRACT, WHICH IN THE OPINION OF THE OWNER'S REPRESENTATIVE ARE DEEM SALVAGEABLE, SHALL REMAIN THE PROPERTY OF THE OWNER. ALL FIRE ALARM MATERIAL AND EQUIPMENT CONSIDERED NOT SALVAGEABLE SHALL BE REMOVED FROM THE SITE AND DISPOSED BY THE CONTRACTOR ACCORDINGLY.

7. WHERE REMOVAL OF AN (RR)ISTING SYSTEM'S DEVICE WILL RESULT IN LOSS OF CIRCUIT CONTINUITY, THE ISOLATED PORTIONS OF THE CIRCUIT SHALL BE RECONNECTED TO PROVIDE SERVICE TO ALL REMAINING DEVICES. IF SITE CONDITIONS MAKE RECONNECTION IMPOSSIBLE, CONNECTION SHALL BE MADE FROM AN ADJACENT AVAILABLE DEVICE AS NOTED AND/OR AS DIRECTED BY THE ARCHITECT AND/OR THE OWNER'S REPRESENTATIVE.

8. WHEREVER (RR)ISTING DEVICES, PANELS, CONDUITS, CABLES, ETC., CONFLICT WITH REMODEL WORK, WHETHER SHOWN OR NOT, RELOCATE THESE ITEMS AS DIRECTED BY THE ARCHITECT AND/OR OWNER'S REPRESENTATIVE AND REPAIR ALL SURFACES.

9. COORDINATE WITH OTHER TRADES AND PROMPTLY TRANSMIT ALL INFORMATION REQUIRED BY THEM. COORDINATE THE SEQUENCE OF DEMOLITION WITH OTHER TRADES TO ENSURE THAT ALL WORK PROCEEDS WITH A MINIMUM OF INTERFERENCE AND DELAY.

10. WHERE (RR)ISTING WIRING OR EQUIPMENT IS ABANDONED AS A RESULT OF THIS CONTRACT, IT SHALL BE REMOVED INSOFAR AS POSSIBLE. THIS INCLUDES BUT IS NOT LIMITED TO:
    a. REMOVE ALL WIRE AND CABLE.
    b. REMOVE ALL DEVICES AND EQUIPMENT.
    c. REMOVE ALL (RR)POSED CONDUIT AND CONDUIT IN ACCESSIBLE CONCEALED AREA, AS FAR AS POSSIBLE.
    d. CUT OFF AND CAP ALL ABANDONED CONDUIT. STUBS SHALL NOT BE PROTRUDED ABOVE FLOOR AND/OR FINISHED WALLS AND CEILINGS.

KEY NOTES

① (E) POWER SUPPLY TO BE REUSED IF IN GOOD WORKING ORDER.

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Rami Zeidan

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PROJECT:
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SHEET NAME:
FIRE ALARM DEMOLITION PLAN

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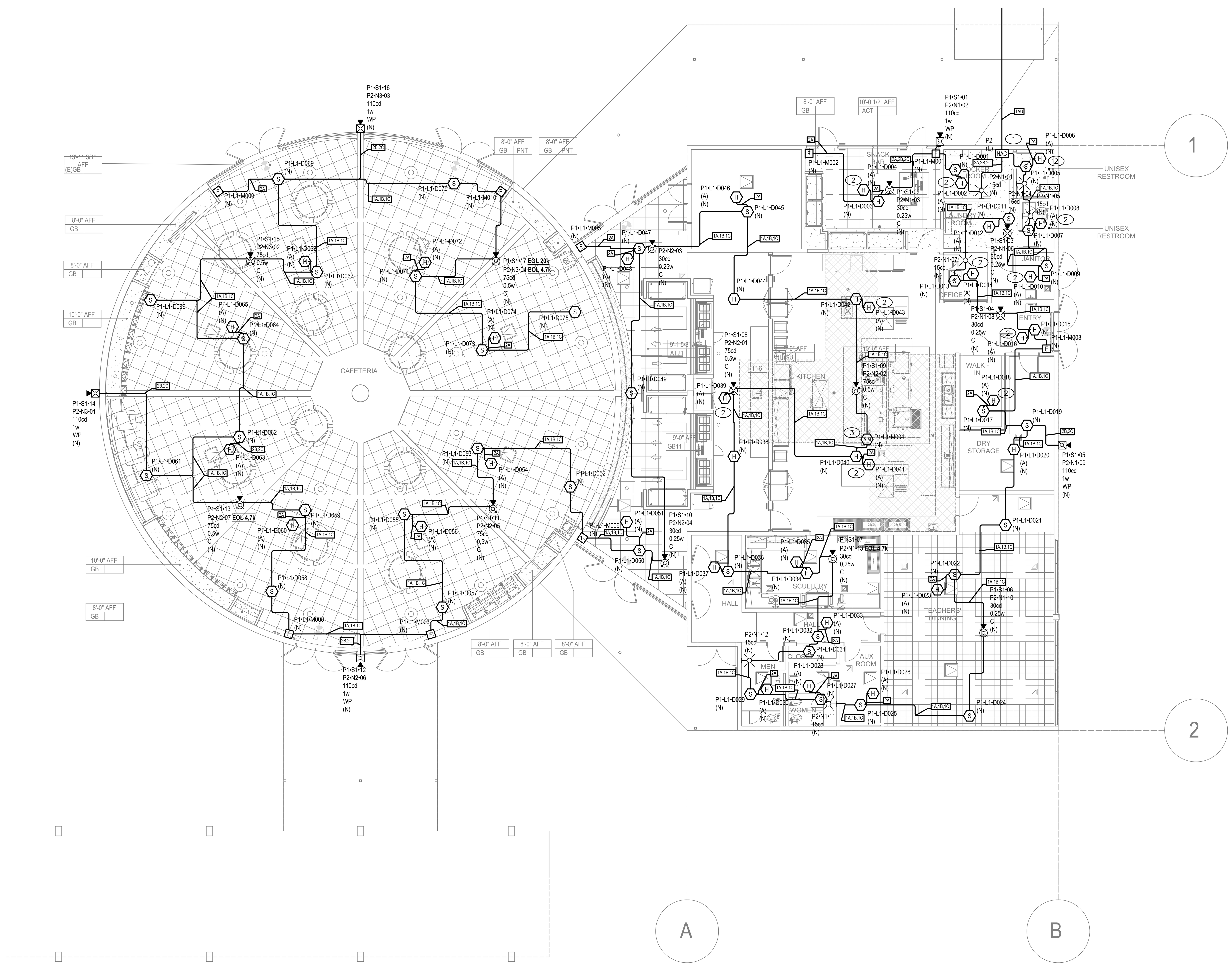

GENERAL NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS, PRIOR TO ANY WORKS, AND REPORT TO ENGINEERS ANY DISCREPANCIES.
2. UNDERGROUND CONDUITS SHALL BE SCH-40 PVC.
3. ALL EXISTING FIRE ALARM EQUIPMENT, DEVICES, CONDUIT AND WIRING, ETC., WHERE SHOWN ON PLANS ARE BASED ON AVAILABLE EXISTING DOCUMENTS AND LIMITED SITE SURVEY AND ARE SHOWN FOR CLARITY. IT SHALL BE REGARDED AS AN APPROXIMATION ONLY. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT. PRIOR TO SUBMITTING BID AND BEFORE START OF ANY ELECTRICAL WORK, CONTRACTOR SHALL VERIFY ON-SITE ALL EXISTING LOCATIONS AND CONDITIONS TO ASCERTAIN ALL WORK REQUIRED.
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KEY NOTES

(1) (E) POWER SUPPLY TO BE REUSED IF IN GOOD WORKING ORDER.

(2) PROVIDE ACCESS PANEL TO SERVICE AND MAINTAIN ABOVE CEILING HEAT DETECTOR. REFERENCE ACCESS PANEL DETAIL 11/FA7.01

(3) CONNECT MONITOR MODULE AND RELAY CONTROL MODULE TO ANSUL SUPPRESSION SYSTEM PROVIDED BY FOOD SERVICE. COORDINATE EXACT LOCATION OF ANSUL CONTACTS AND CONNECT AS REQUIRED FOR A FULLY FUNCTIONING SYSTEM.

FIRE ALARM 1ST FLOOR PLAN FA1

1/8" = 1'-0"

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PROJECT:
LUTHER BURBANK HIGH SCHOOL CAFETERIA MODERNIZATION

SHEET NAME:
FIRE ALARM 1ST FLOOR PLAN

DSA SUBMITTAL

DATE: **09/18/2024** CLIENT PROJ NO: **3186071000**

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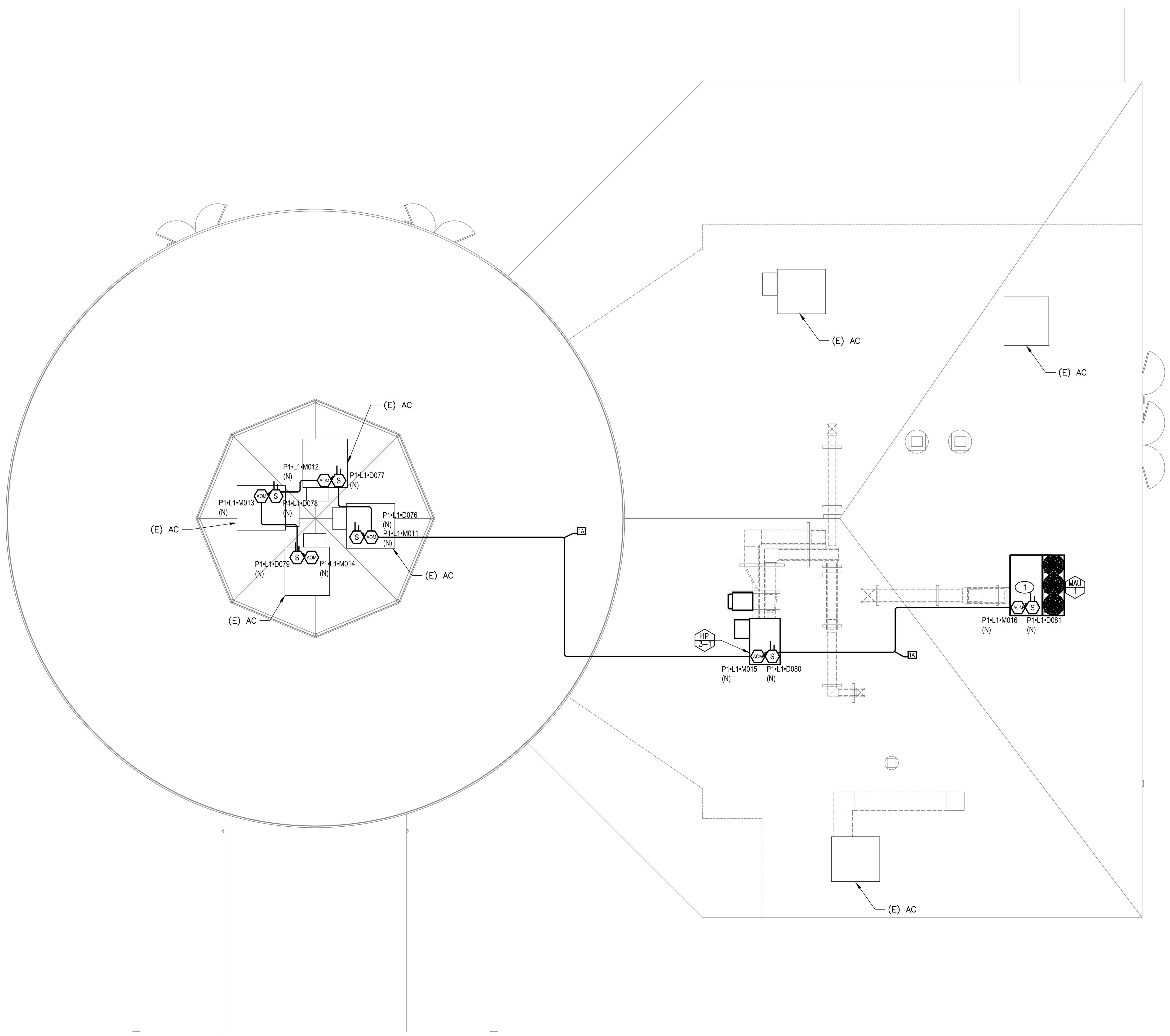

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KEY NOTES

1. CONNECT RELAY MODULE TO HVAC UNIT FOR SHUTDOWN. (TYP.)

FIRE ALARM ROOF PLAN FA1
1/8" = 1'-0"

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PROJECT:
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SHEET NAME:
FIRE ALARM ROOF PLAN

DSA SUBMITTAL

DATE: **09/18/2024** CLIENT PROJ NO: **3186071000**

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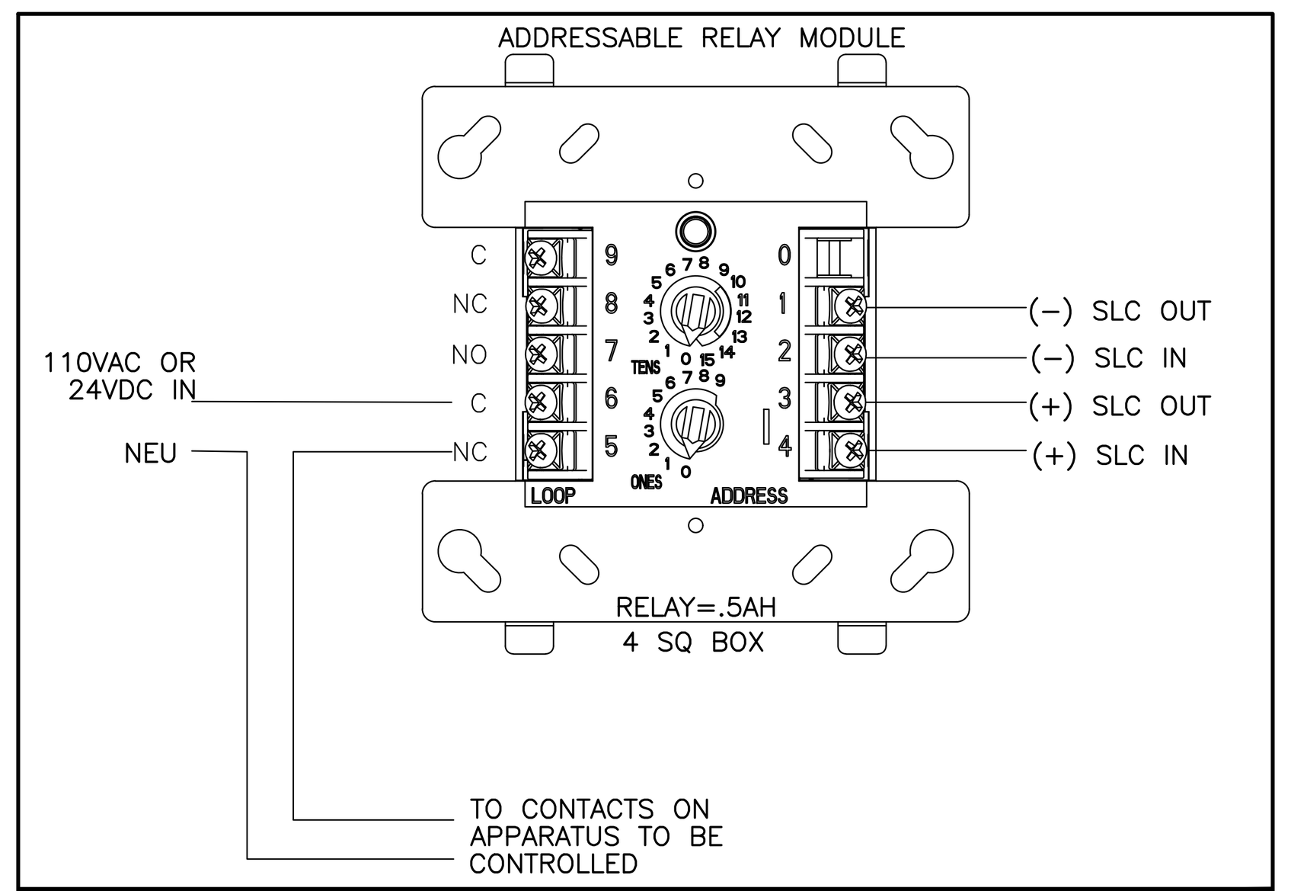
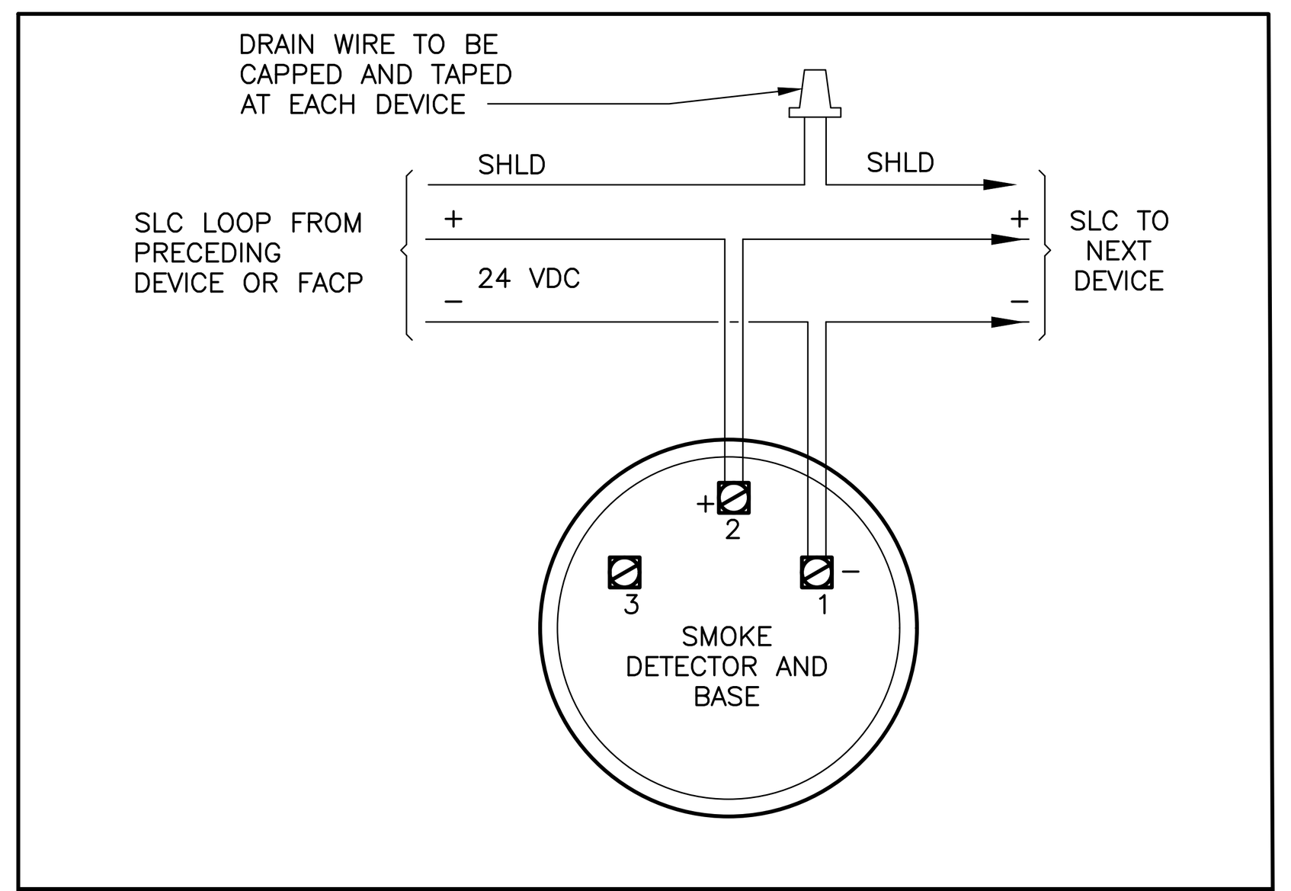
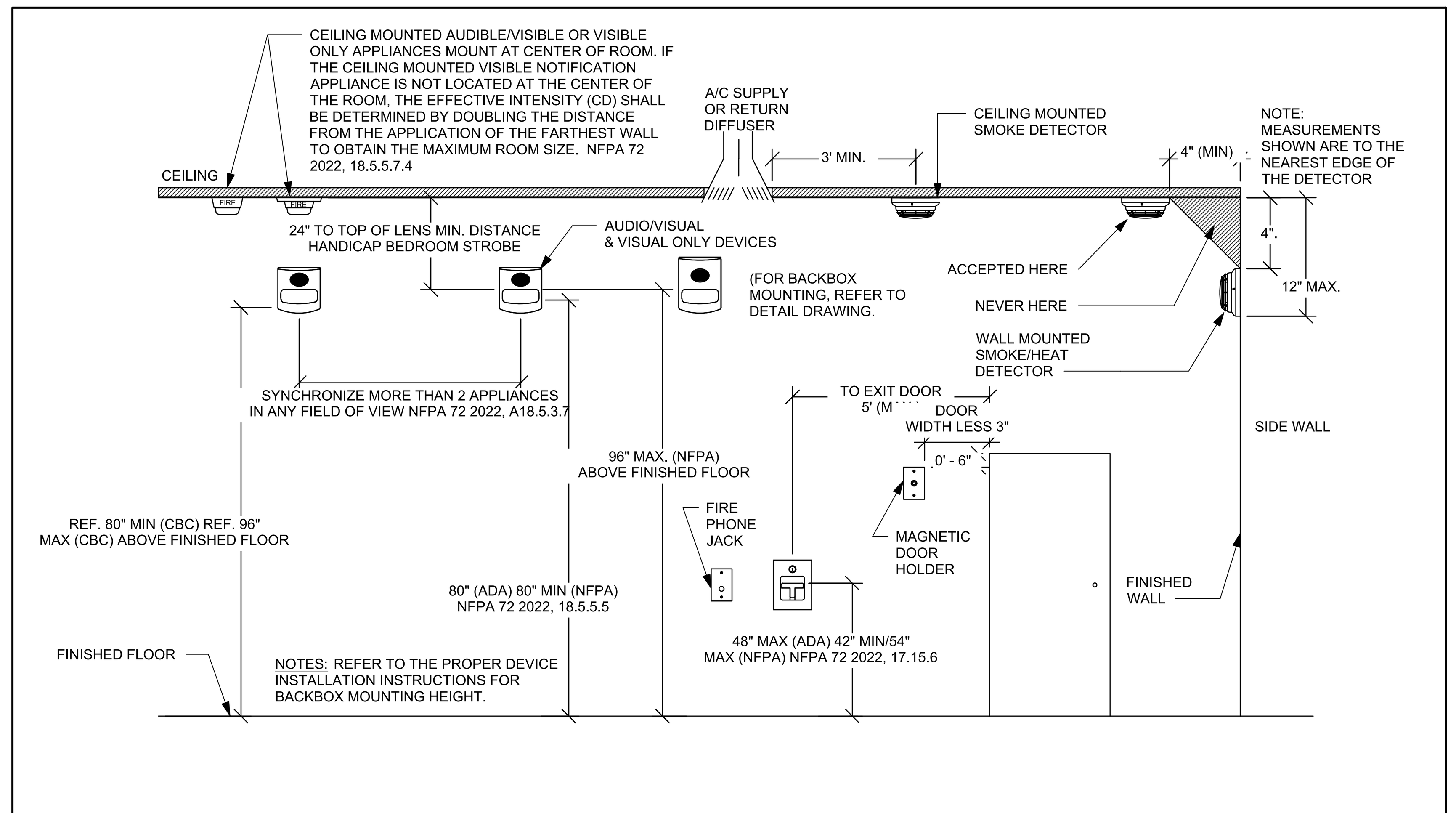


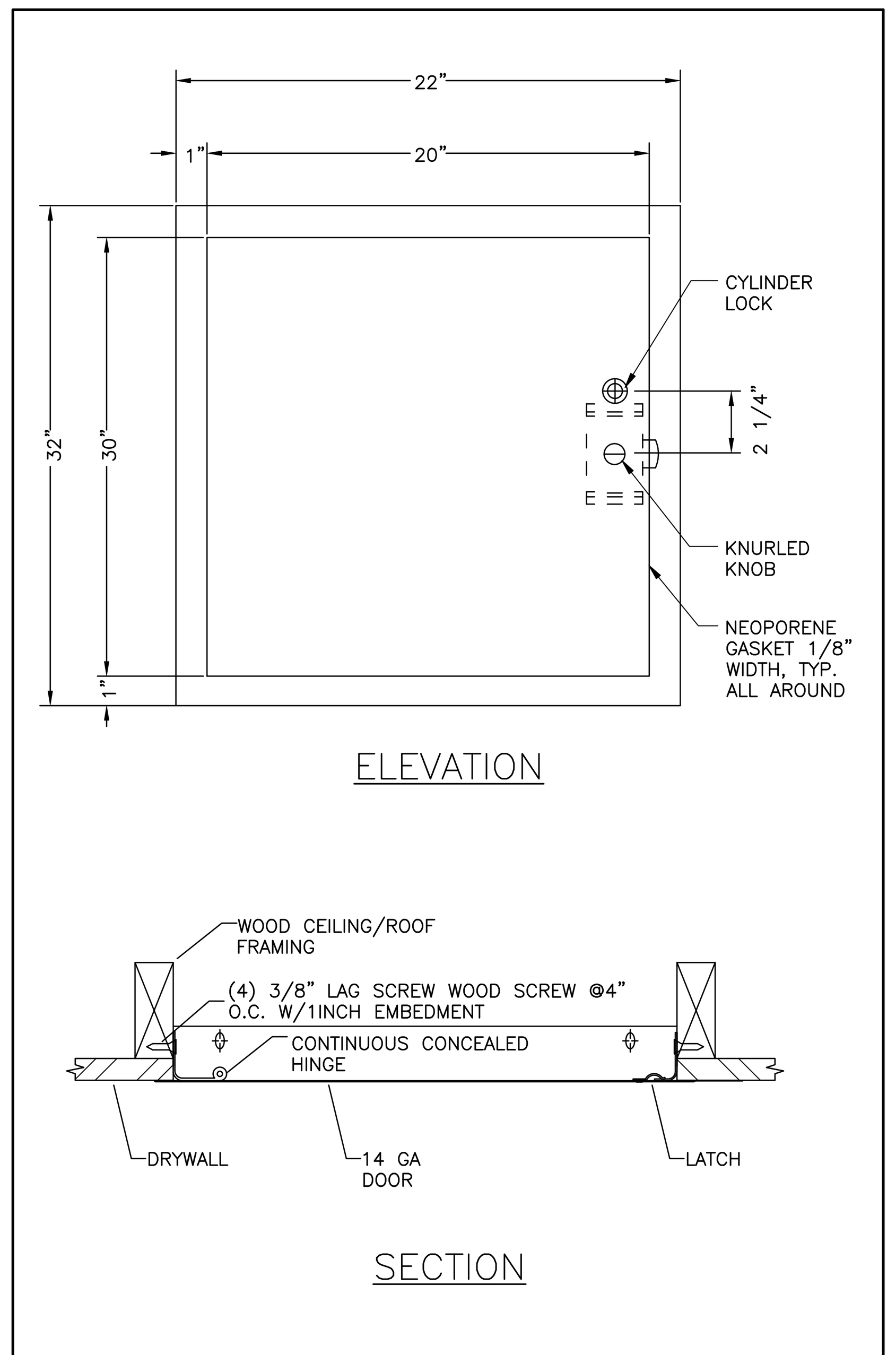
FIRE ALARM CONTROL RELAY (TYPICAL) — NTS — 10



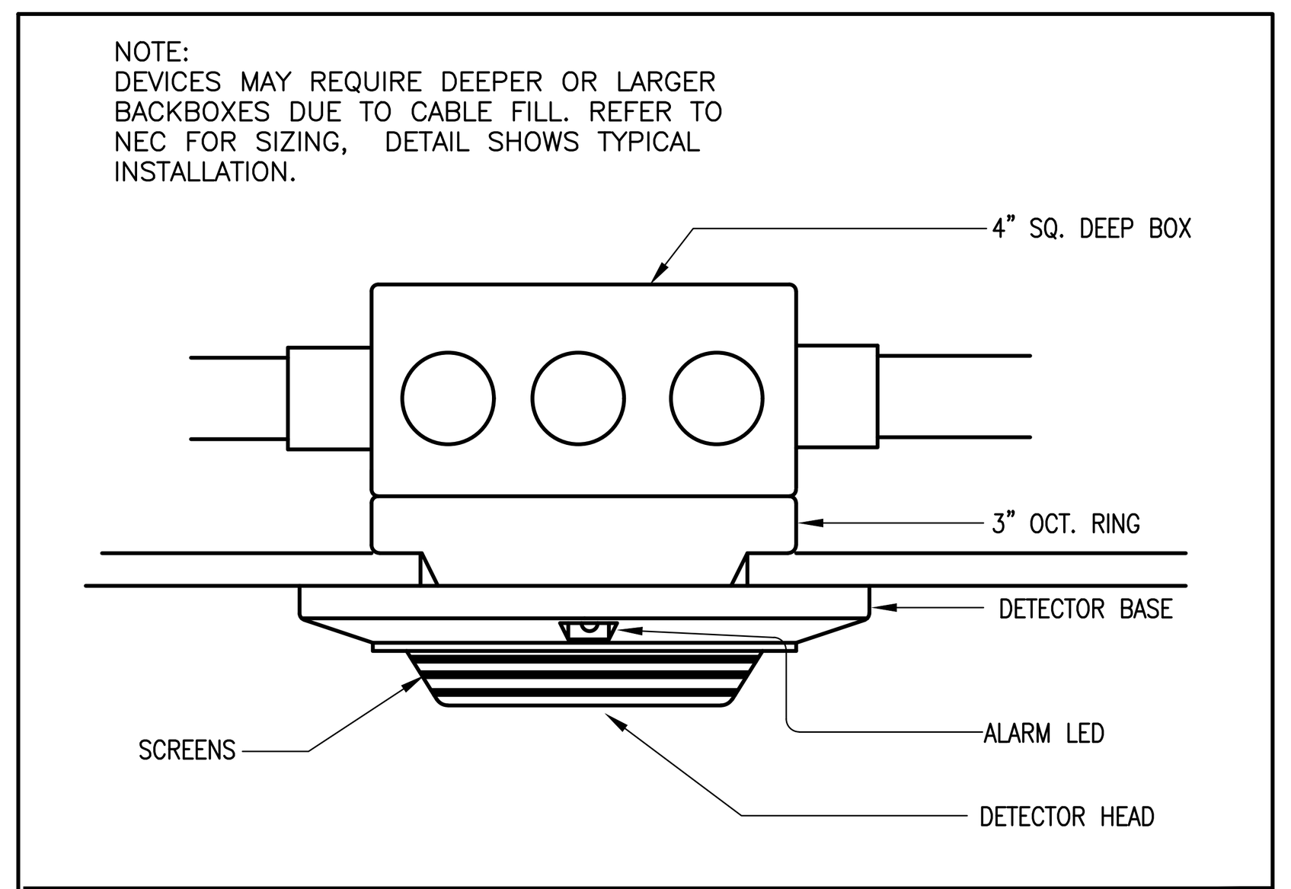
SMOKE DETECTOR POINT TO POINT DIAGRAM — NTS — 6



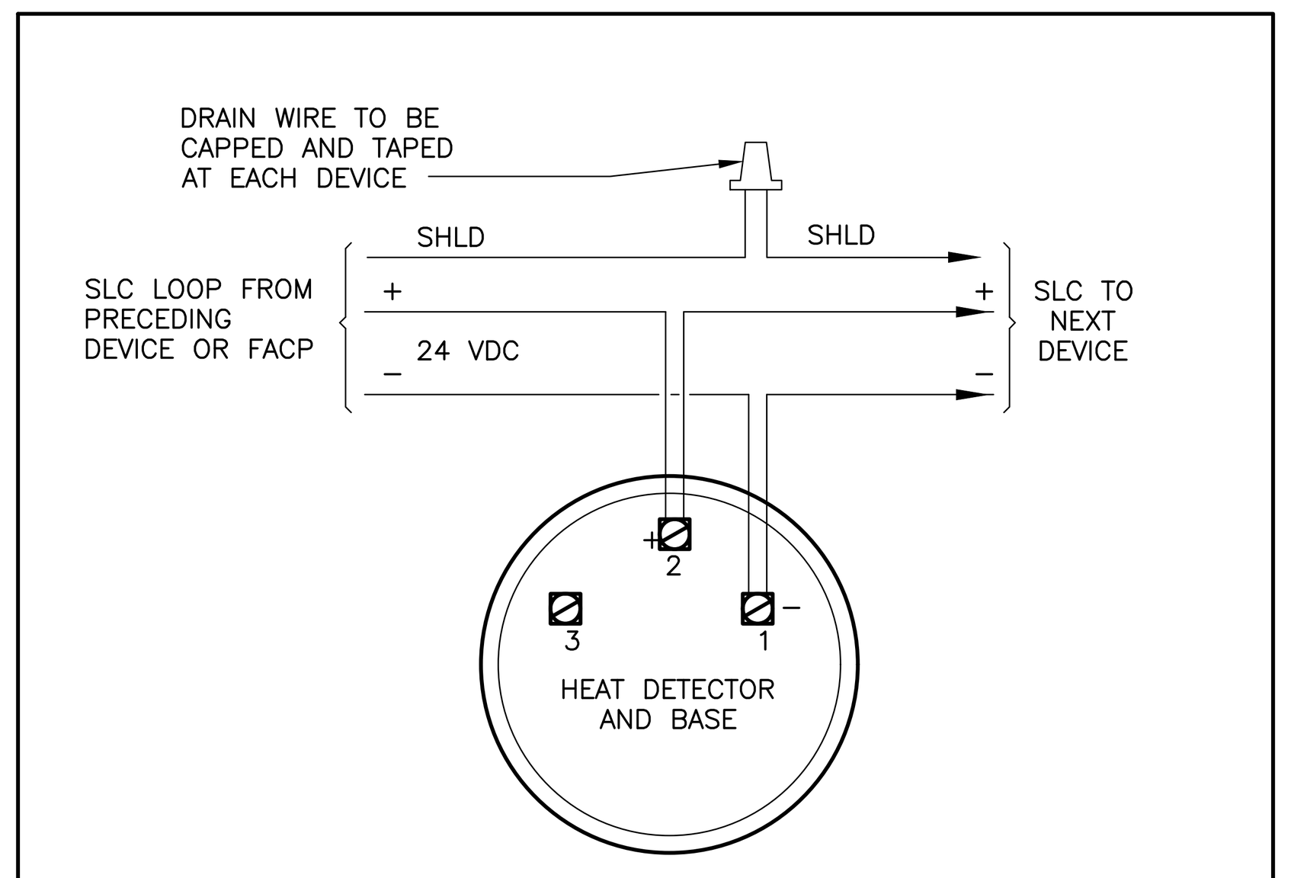
TYPICAL FIRE ALARM DEVICE & NOTIFICATION APPLIANCES ELEVATION DETAIL — NTS — 1



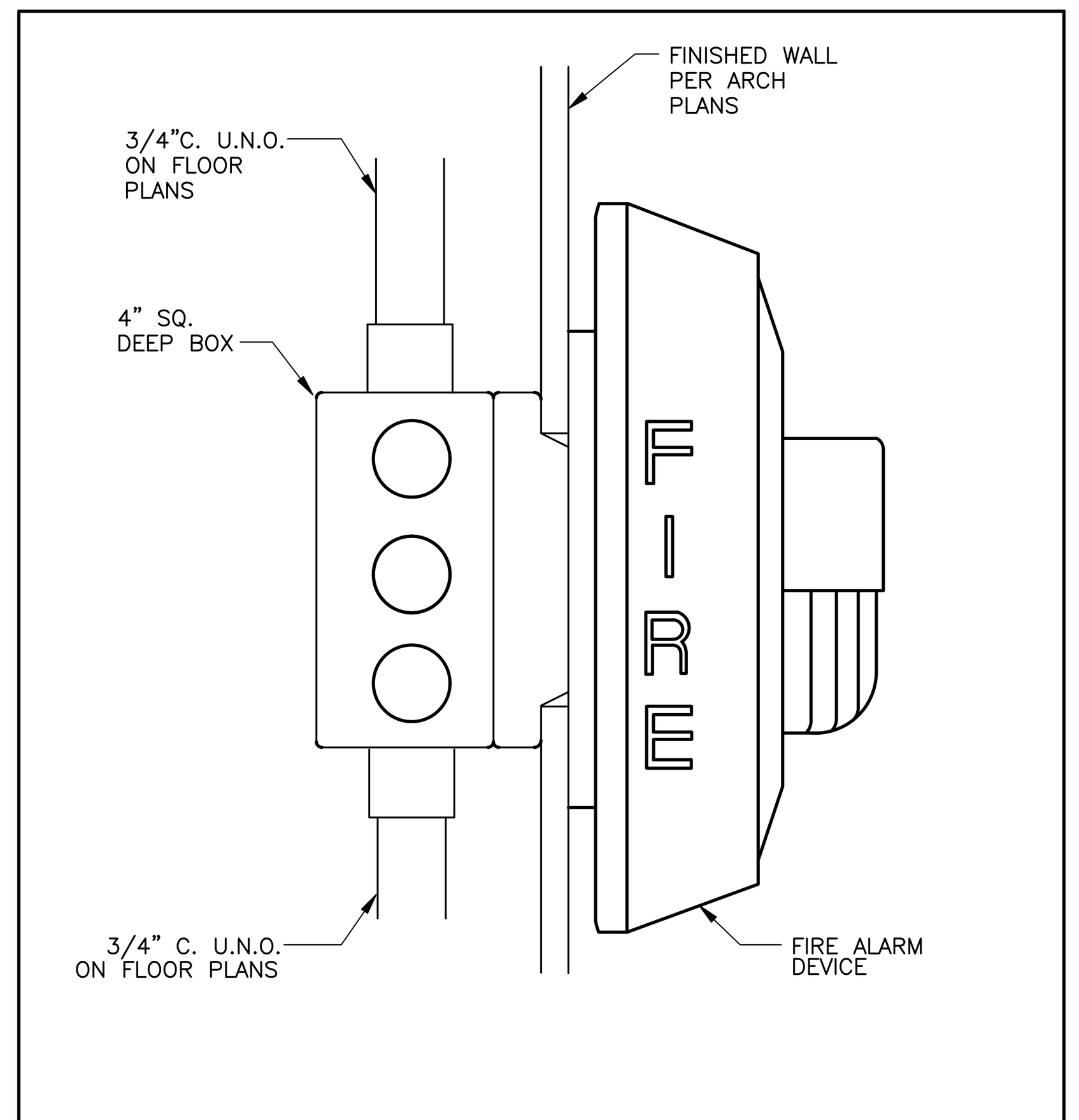
ACCESS PANEL (TYPICAL) — NTS — 11



FIRE ALARM DETECTOR WIRING DETAIL (TYPICAL) — NTS — 7

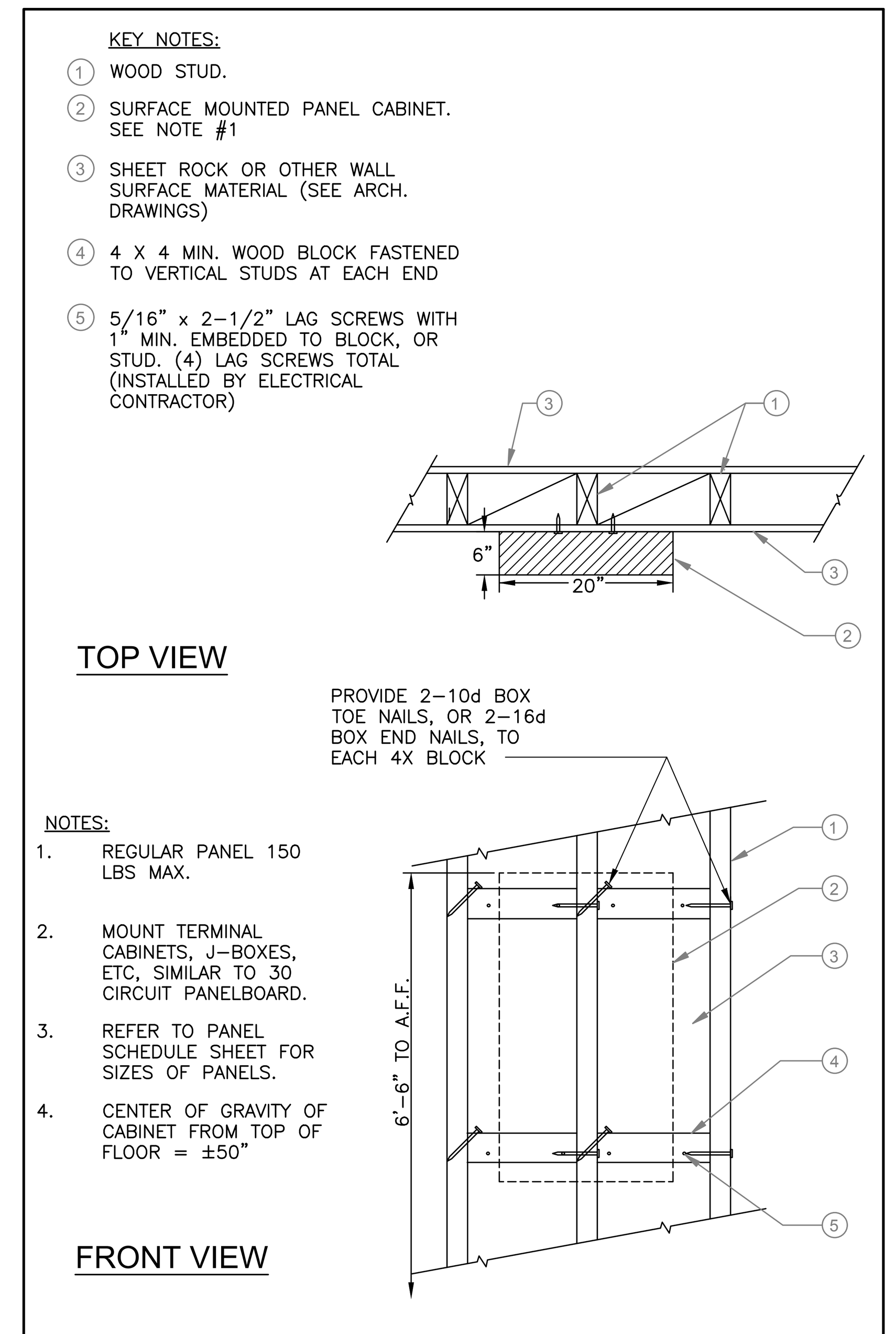


HEAT DETECTOR POINT TO POINT DIAGRAM — NTS — 8

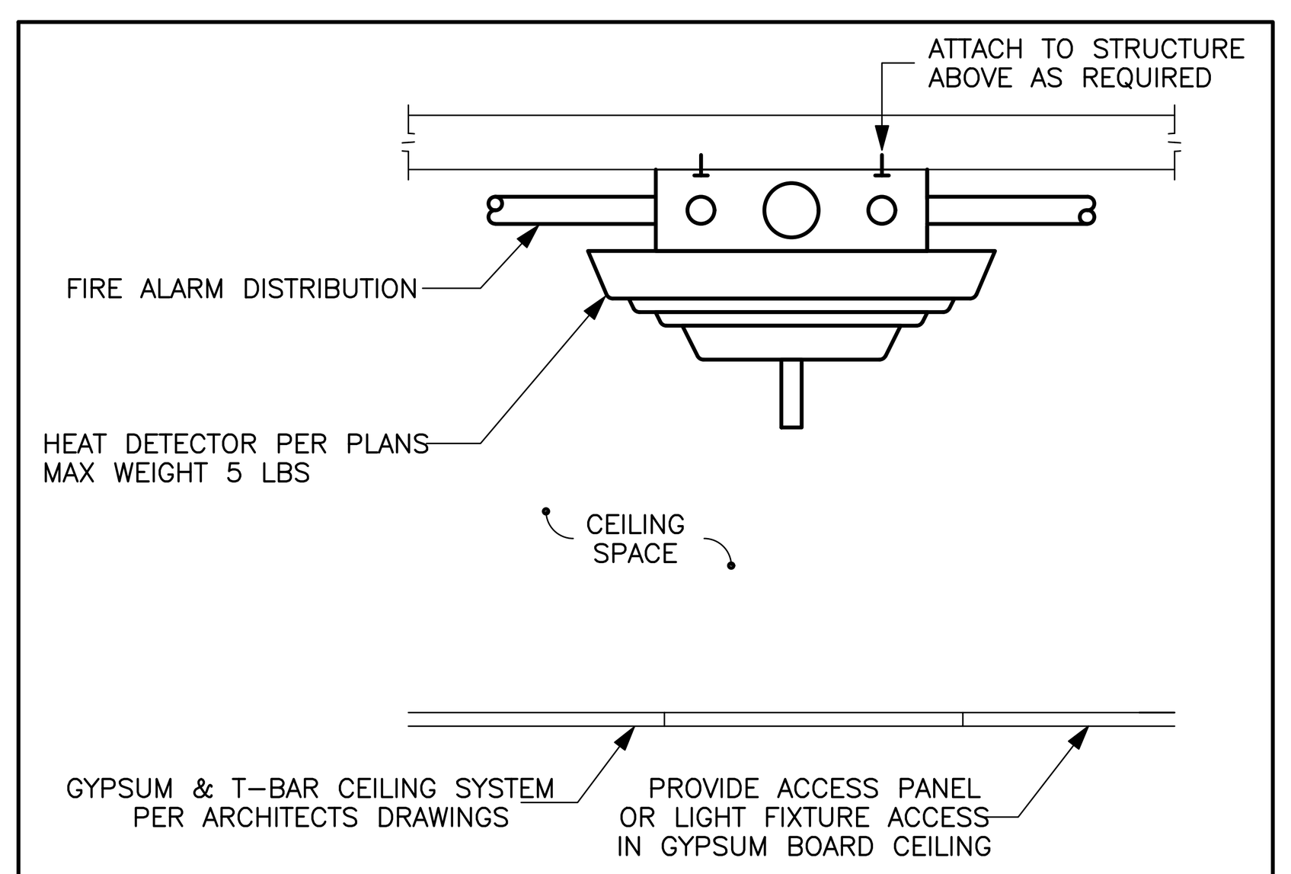


NOTE:
1. DEVICES MAY REQUIRE DEEPER OR LARGER BACKBOXES DUE TO CABLE FILL. REFER TO NEC FOR SIZING DETAIL SHOWS TYPICAL INSTALLATION.
2. REFER TO 1/FA7.01 FOR BACKBOX/DEVICE MOUNTING HEIGHTS.

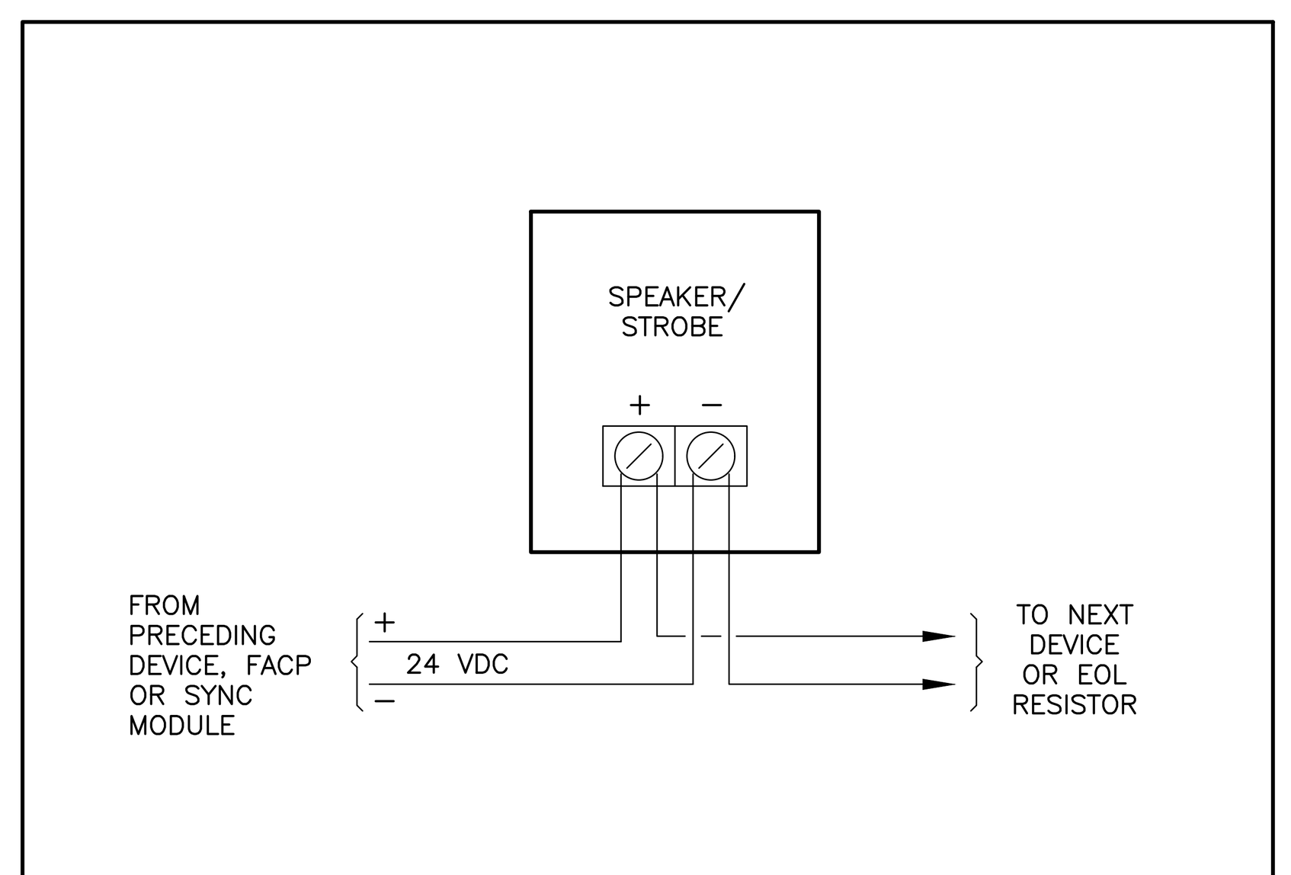
FIRE ALARM DEVICE MOUNTED ON WALL — NTS — 4



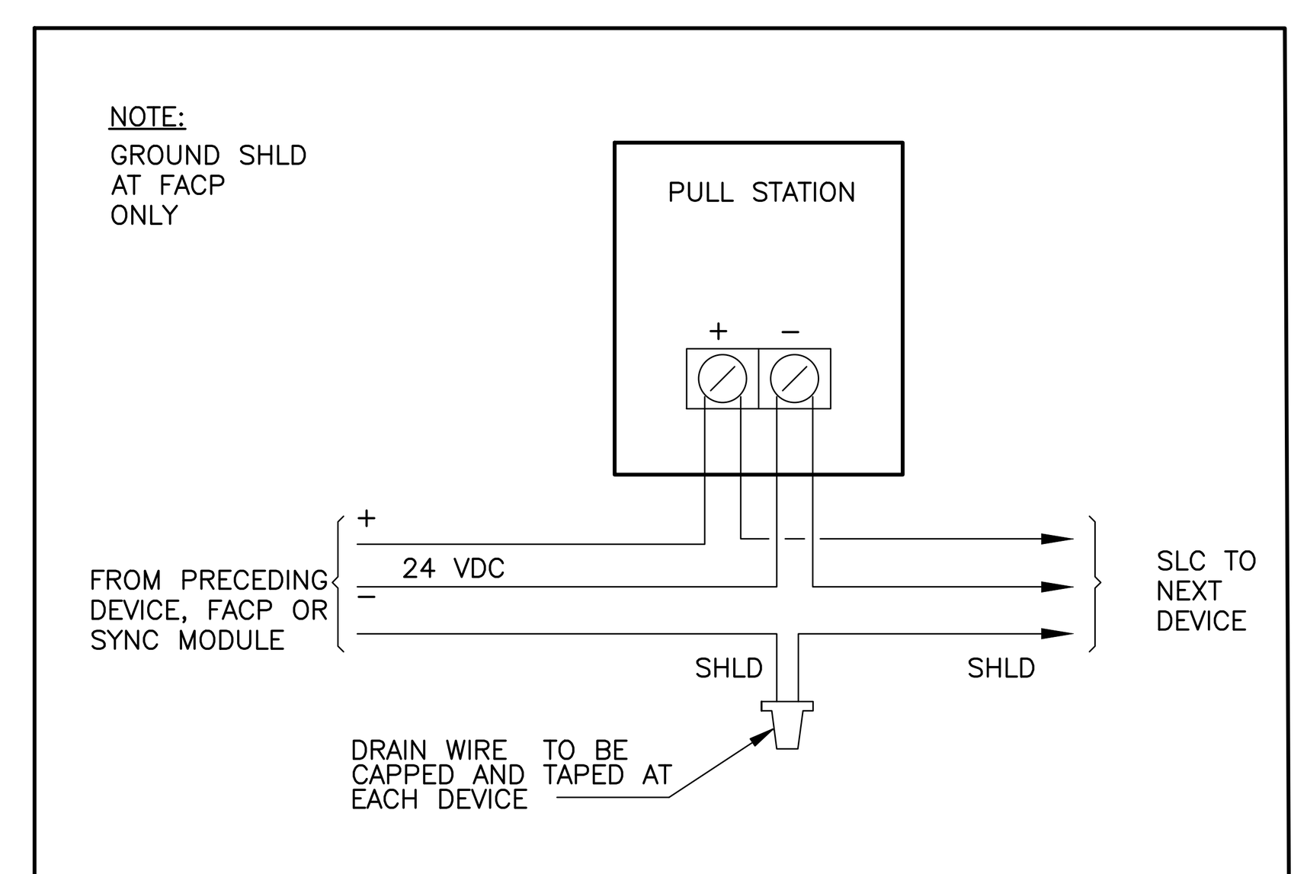
SURFACE PANEL/ CABINET-WOOD FRAME — NTS — 2



FIRE ALARM DETECTOR ABOVE CEILING — NTS — 9



SPEAKER STROBE POINT TO POINT DIAGRAM — NTS — 5



MANUAL PULL STATION POINT TO POINT DIAGRAM — NTS — 3

SYSTEM OUTPUTS

CTRL. UNIT ANNUNCIATION: A – ACTUATE FACP ALARM SIGNAL CONDITION; B – ACTUATE FACP SUPERVISORY SIGNAL CONDITION; C – ACTUATE FACP TROUBLE SIGNAL CONDITION; E – ACTUATE ANNUNCIATOR ALARM SIGNAL CONDITION; F – ACTUATE ANNUNCIATOR SUPERVISORY SIGNAL CONDITION; G – ACTUATE ANNUNCIATOR TROUBLE SIGNAL CONDITION; I – TRANSMIT ALARM CONDITION SIGNAL TO SUPERVISORY STATION; J – TRANSMIT SUPERVISORY CONDITION SIGNAL TO SUPERVISORY STATION; K – TRANSMIT TROUBLE CONDITION SIGNAL TO SUPERVISORY STATION

NOTIFICATION: M – ACTUATE FIRE ALARM NOTIFICATION SIGNAL; N – ACTUATE FIRE ALARM CONTROL SUPERVISORY SIGNAL; O – ACTUATE FIRE ALARM CONTROL TROUBLE SIGNAL

FIRE SAFETY CNTRL: Q – RELEASE ASSOCIATE DOOR HARDWARE; R – SHUT DOWN ASSOCIATE AC / HVAC UNIT

	SYSTEM INPUTS	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T		REMARKS
1	**SYSTEM ALARM CONDITION**																					1	
2	SMOKE SENSOR/DETECTOR	•				•				•				•				•				2	
3	HEAT SENSOR / DETECTOR	•				•				•				•				•				3	
4	MANUAL PULL STATION	•				•				•				•				•				4	
5	ANSUL MANUAL PULL STATION	•				•				•				•								5	
6																						6	
7																						7	
8																						8	
9	**SYSTEM SUPERVISORY CONDITION**																					9	
10	ANSUL SYSTEM DISCHARGE	•				•				•				•								10	
11	DUCT DETECTOR		•				•				•				•			•	•			11	
12																						12	
13																						13	
14																						14	
15																						15	
16	**SYSTEM TROUBLE CONDITION**																					16	
17	FIRE ALARM AC POWER FAILURE			•				•								•						17	
18	OPEN CIRCUIT OR GROUND FAULT			•				•								•						18	
19	FIRE ALARM SYSTEM LOW BATTERY			•				•								•						19	
20																						20	
21																						21	
22																						22	
		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T		

12 FIRE ALARM SEQUENCE OF OPERATIONS

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LUTHER BURBANK HIGH SCHOOL CAFETERIA MODERNIZATION

SHEET NAME:
FIRE ALARM DETAILS AND SEQUENCE OF OPERATIONS

DSA SUBMITTAL

DATE: 09/18/2024 CLIENT PROJ NO: 3186071000

SHEET:
FA7.01

PLEASE RECYCLE

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS SHEET'S ORIGINAL PAGE SIZE

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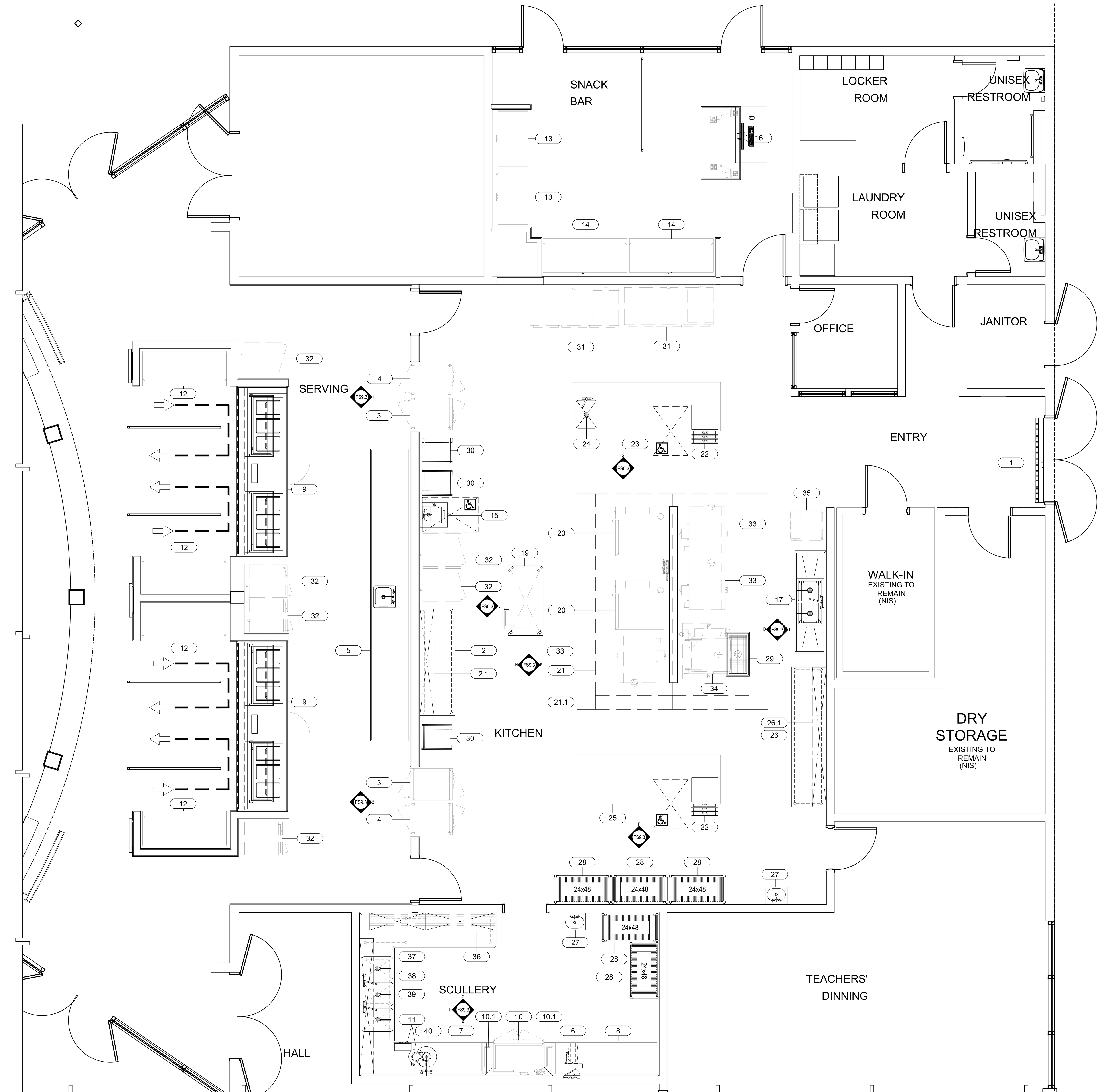

FOODSERVICE EQUIPMENT FLOOR PLAN

SCALE : 1/4" = 1'-0"

1
FS1.1

NOTE

FOR FOODSERVICE EQUIPMENT SCHEDULE SEE SHEET FS1.2

FOODSERVICE DRAWINGS SHEET LIST

FLOOR LEGEND

SYMBOL/ABBREVIATION	DESCRIPTION
OFCI	OWNER FURNISH / CONTRACTOR INSTALLED
OFOI	OWNER FURNISH / OWNER INSTALLED
FSEC	FOODSERVICE EQUIPMENT CONTRACTOR
VFVI	VENDER FURNISH / VENDER INSTALLED
(E), EXIST	EXISTING FOODSERVICE EQUIPMENT
(F)	FUTURE FOODSERVICE EQUIPMENT
(NIS)	FUTURE FOODSERVICE EQUIPMENT
	BUILDING WALLS (SEE ARCH. DWGS.)
	WALK-IN COOLER/ FREEZER INSULATED WALLS
1	KEY / SHEET NOTE
1	ITEM NUMBER SYMBOL (SEE EQUIPMENT SCHEDULE FOR DESCRIPTION)
KITCHEN 1	ROOM/ AREA NAME AND ROOM NUMBER
C	COLUMN GRIDS WITH COLUMN INDICATORS
48(#)18	STORAGE SHELVING SIZES (Width x Length)
F.E.	FIRE EXTINGUISHER & CABINET REFER TO ARCH. DRAWINGS FOR FIRE EXTINGUISHER LOCATIONS

SYMBOL	DESCRIPTION
30" CLR. 48" CLR.	ACCESSIBLE CLEARANCES AND SYMBOL 30"x48" MIN CLEARANCE
	OUTLINE OF FOODSERVICE EQUIPMENT
	FOODSERVICE EQUIPMENT BELOW EQUIPMENT TOP
	FOODSERVICE EQUIPMENT ABOVE EQUIPMENT TOP
	MOBILE FOODSERVICE EQUIPMENT
	FOODSERVICE EXISTING EQUIPMENT TO REMAIN
FS.1	SHEET NUMBER
W.H.	WATER HEATER (SEE PLUMBING ENG. DWG.)
A FS0.1 B	ELEVATION INDICATOR SYMBOL

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Sacramento City UNIFIED SCHOOL DISTRICT

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LICENSED ARCHITECT MICHAEL CHESTER RATH C-25193 REN. 07/31/25 STATE OF CALIFORNIA

ISSUE

Δ	DESCRIPTION	DATE

AMD FOODSERVICE DESIGN

KEYNOTES

NOTES

FACILITY:
LUTHER BURBANK HIGH SCHOOL
3500 FLORIN RD
SACRAMENTO, CA 95823

PROJECT:
LUTHER BURBANK HIGH SCHOOL CAFETERIA MODERNIZATION

SHEET NAME:
FOODSERVICE EQUIPMENT FLOOR PLAN

DSA SUBMITTAL

DATE: **2024.09.13** CLIENT PROJ NO: **3186071000**

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FS1.1

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EQUIPMENT SCHEDULE

ITEM NO	QTY	STATUS	EQUIPMENT CATEGORY	MANUFACTURER	MODEL NUMBER	NOTES	WEIGHT LBS.	ANCHORAGE
1	1	CFCI	AIR CURTAIN, UNHEATED	BERNER	SLC07-1072A		72	C/FS8.2
2	1	CFCI	WORK TABLE	CUSTOM	FABRICATED ITEM		125	D/FS8.1
2.1	1	CFCI	WALL SHELF	CUSTOM	FABRICATED ITEM		65	H/FS8.1
3	2	OFCI	CABINET, HEATED, PASS-THRU	TRUE MFG. - GENERAL FOODSERVICE	STA1HPT-1G-1S	(1)	405	D/FS8.2
4	2	OFCI	REFRIGERATOR, PASS-THRU, GLASS DOOR	TRUE MFG. - GENERAL FOODSERVICE	STA1RPT-1G-1S-HC	(1)	440	D/FS8.2
5	1	CFCI	WORKTABLE W/ BASE CABINET	MULTITERA	FABRICATED ITEM			L/FS8.1
6	1	CFCI	HOSE REEL WTIH CONTROL BOX	FISHER	29851		40.25	
7	1	CFCI	SOILED DISHTABLE	CUSTOM	FABRICATED ITEM			C/FS8.1
8	1	CFCI	CLEAN DISHTABLE	CUSTOM	FABRICATED ITEM		243	C/FS8.1
9	2	CFCI	SERVING COUNTER W/ DRY WELLS	MULTITERA	FABRICATED ITEM	(2)		L/FS8.1
10	1	OFCI	WAREWASHER, RACK CONVEYOR	HOBART US FOODSERVICE	CL44EN-ADV ELECTRIC (R-L)	(1)	624	H/FS8.1
10.1	2	OFCI	PANT LEG DUCT	CUSTOM	FABRICATED ITEM	(3)	150	
11	1	CFCI	GARBAGE DISPOSER & CONE	SALVAJOR	200-SA-ARSS-2		123	
12	4	OFCI	REFRIGERATED GRAB N GO	TRUE MFG. - GENERAL FOODSERVICE	TOAM-72GS-HC~NSL01	(1)	765	L/FS8.1
13	2	OFCI	HEATED GRAB N GO	ALTO-SHAAM	HSM-48/5S/T	(1)	772	
14	2	OFCI	DISPLAY CASE, REFRIGERATED	TRUE MFG. - GENERAL FOODSERVICE	TOAM-72GS-HC~NSL01	(1)	765	
15	1	CFCI	SINK, HAND, WALL MOUNT	EAGLE GROUP/METAL MASTERS	HSAP-14-ADA-FW		57	B/FS8.2
16	1	CFCI	CASHIER COUNTER	MULTITERA	FABRICATED ITEM		112	MOBILE
17	1	CFCI	SINK, SCULLERY, 2 COMPARTMENTS	EAGLE GROUP/METAL MASTERS	FN2036-2-24-14/3		135	L/FS8.1
19	1	CFCI	MOBILE WORKTABLE WITH UTENSIL DRAWER	CUSTOM	FABRICATED ITEM		120	MOBILE
20	2	OFCI	OVEN-STEAMER W/ FILTER, COMBI, ELECTRIC	RATIONAL USA	ICP 20-FULL E 480V 3 PH	(1)	902	E/FS8.2
21	2	CFCI	EXHAUST HOOD AND S/S WALL LINING	STREIVOR	WCBD 1736622.5		2982	A/FS8.3
21.1	1	CFCI	FIRE SYSTEM CABINET	ANSUL	R-102		130	
22	2	CFCI	THREE TIER DRAWER	CUSTOM	FABRICATED ITEM			L/FS8.1
23	1	CFCI	CHEFS COUNTER	CUSTOM	FABRICATED ITEM		966	E/FS8.1
24	1	CFCI	CHEFS SINK	CUSTOM	FABRICATED ITEM			
25	1	CFCI	CHEFS COUNTER	CUSTOM	FABRICATED ITEM		820	E/FS8.1
26	1	CFCI	WORK TABLE	CUSTOM	FABRICATED ITEM		280	D/FS8.1
26.1	1	CFCI	WALL SHELF	CUSTOM	FABRICATED ITEM		75	G/FS8.1
27	2	CFCI	SINK, HAND, WALL MOUNT	EAGLE GROUP/METAL MASTERS	HSA-10-F		18.2	B/FS8.2
28	5	CFCI	MOBILE SHELVING	CAMBRO	CPMU244867V4480		106.2	MOBILE
29	1	CFCI	FLOOR TROUGH WITH ADA GRATE	EAGLE GROUP/METAL MASTERS	FT-1836-SG		112	3/FS2.2
30	3	CFCI	RACK, PAN	EAGLE GROUP/METAL MASTERS	4339		99	MOBILE
31	2	OFCI	REACH-IN FREEZER	EXISTING TO BE REUSED		(1)	920	L/FS8.1
32	6	OFCI	MOBILE WAMRING CABINET			(1)	280	A/FS8.2
33	3	OFCI	DOUBLE STACK CONVECTION OVEN ELECTRIC			(1)	1060	L/FS8.1
34	1	OFCI	TILT SKILLET			(1)	560	L/FS8.1
35	1	OFCI	ICE MAKER W/ BIN			(1)	760	L/FS8.1
36	1	CFCI	TUBULAR WALL MTD. DRAINAGE SHELF	ADVANCE TABCO	DT-6R-60		39	G/FS8.1
37	1	CFCI	TUBULAR WALL MTD. DRAINAGE SHELF	ADVANCE TABCO	DT-6R-48		32	G/FS8.1
38	1	CFCI	WALL SHELF	CUSTOM	FABRICATED ITEM		55	G/FS8.1
39	1	CFCI	(3) COMPARTMENT POT SINK	CUSTOM	FABRICATED ITEM		716	A/FS8.1
40	1	CFCI	SPLASH MOUNTED PRE-RINSE FAUCET	T&S BRASS	B-0133		17.35	

SCHEDULE NOTES

(1) ITEM IS OWNER FURNISHED CONTRACTOR INSTALLED, VERIFY / PROVIDE ALL UTILITY AND ANCHORAGE REQUIREMENTS WITH EQUIPMENT AND ONSITE CONDITONS

(2) SERVING LINE TO BE DRY WELL OPERATED, NO DRAINS

(3) SEE A/FS9.3

NOTE

FOR FOODSERVICE EQUIPMENT PLAN SEE SHEET FS1.1

KITCHEN EQUIPMENT HOOD AND FIRE SYSTEM

1. THE KITCHEN HOOD FIRE SUPPRESSION SYSTEM SHALL CONFORM TO THE REQUIREMENTS OF THE 2021 EDITION OF THE NFPA 17A. (UL 300 SYSTEM)
2. INSTALLATION OF THE FIRE SUPPRESSION SYSTEM SHALL NOT BE STARTED UNTIL COMPLETE PLANS AND SPECIFICATIONS HAVE BEEN APPROVED BY DEPT. OF STATE ARCHITECT.
3. UPON COMPLETION OF THE SYSTEM IT SHALL BE TESTED IN THE PRESENCE OF THE STATE FIRE MARSHAL.

HEALTH DEPARTMENT NOTES:

1. PROVIDE THERMOMETER IN ALL REFRIGERATION UNITS CONTAINING PERISHABLE FOODS.
2. PROVIDE PROBE THERMOMETER FOR CHECKING HOT AND COLD FOODS.
3. FOOD STORAGE SHELVES SHALL BE MINIMUM SIZE (6) INCHES ABOVE FLOOR.
4. ALL EQUIPMENT SHALL MEET OR BE EQUIVALENT TO "NSF" STANDARDS.
5. PROVIDE GARMENT STORAGE AREA: LOCKER, CABINET OR HANGERS FOR EMPLOYEE GARMENTS.
6. RODENT AND INSECT-PROOF ALL EXTERIOR DOORS AND WINDOWS. PROVIDE HEAVY-DUTY SELF-CLOSERS ON ALL EXTERIOR DOORS AND RESTROOM DOORS. SEAL ALL HOLES OR GAPS AROUND PIPES ENTERING BUILDING.
7. EXTERIOR DOORS SHALL BE RODENT PROOF WITH NO OPENINGS GREATER THAN 1/4 INCH.
8. PROVIDE HARDWOOD, METAL, FORMICA OR OTHER APPROVED MATERIALS, SMOOTH WITH SEALER ON ALL TABLE, COUNTERS, SHELVES, AND OTHER FOOD CONTACT SURFACES.
9. PROVIDE HAZARDOUS SUBSTANCE LOCATION: SEPARATE CABINET, ROOM OR DESIGNATED AREA FOR STORAGE OF PESTICIDE AND CLEANING COMPOUNDS.
10. INSTALL EQUIPMENT TO FACILITATE CLEANING. PLACE FLOOR MOUNTED UNITS ON CASTERS, MINIMUM SIX (6) INCHES HIGH, ROUND, METAL LEGS, OR SEAL IN POSITION ON MINIMUM FOUR (4) INCH CURB.
11. UNPACKAGED PROCESSED FOODS ON DISPLAY SHALL BE EFFECTIVELY SHIELDED OR COVERED.
12. PROVIDE SOAP AND TOWEL DISPENSERS AT ALL HAND WASHING SINKS.
13. FLOOR SINKS SHALL BE INSTALLED FLUSH WITH FLOOR AND READILY ACCESSIBLE FOR CLEANING.
14. GREASE INTERCEPTORS SHALL BE INSTALLED READILY ACCESSIBLE FOR CLEANING.
15. PROVIDE PROTECTIVE COVERS ON ALL LIGHTS IN FOOD PREPARATION, OPENED FOOD STORAGE ROOM(S), UTENSIL WASH AREAS, OR USE SHATTERPROOF BULBS.
16. LIGHTING REQUIREMENTS:
    - -MINIMUM 50FT. CANDLES REQUIRED IN FOOD PREP AREA
    - -MINIMUM 20FT. CANDLES REQUIRED IN RESTROOMS AND BARS
    - -MINIMUM 10FT. CANDLES REQUIRED IN REFRIGERATORS
    - -MINIMUM 10FT. CANDLES REQUIRED IN STORAGE AREAS
    - -LIGHTING SHALL BE SHATTERPROOF OR SHIELDED
17. EXISTING FIXTURES, FINISHES, AND EQUIPMENT SHALL BE IN OPERABLE CONDITION AND SUBJECT TO FIELD APPROVAL.
18. WALLS & CEILING IN THE RESTROOMS, PREPARATION, STORAGE, AND JANITORIAL AREAS SHALL BE CONSTRUCTED OF APPROVED MATERIALS SO AS TO BE SMOOTH, WASHABLE, AND EASY TO CLEAN.

APPLICABLE CODE: 2022 CBC

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 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) 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.
3. 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:

A. COMPONENTS WEIGHING LESS THEN 400 POUNDS AND HAVING A CENTER MASS 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.

B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOO T, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG 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 WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM 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 2022 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 DISTRIBUTIONS SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PRE-APPROVED INSTALLATION GUIDE (E.G., OSHPD 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 HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

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

MP [X] MD [X] PP [X] E [X] Option 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP [ ] MD [ ] PP [ ] E [ ] Option 2: SHALL COMPLY WITH HCAi (OSHPD) PREAPPROVED (OPM #) #______________________ AS INCLUDED IN THESE DRAWINGS WITH PROJECT-SPECIFIC NOTES AND DETAILS

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LICENSED ARCHITECT MICHAEL CHESTER RATH C-25193 REN. 07/31/25 STATE OF CALIFORNIA

ISSUE

Δ	DESCRIPTION	DATE

AMD FOODSERVICE DESIGN

KEYNOTES

NOTES

FACILITY:
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3500 FLORIN RD
SACRAMENTO, CA 95823

PROJECT:
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SHEET NAME:
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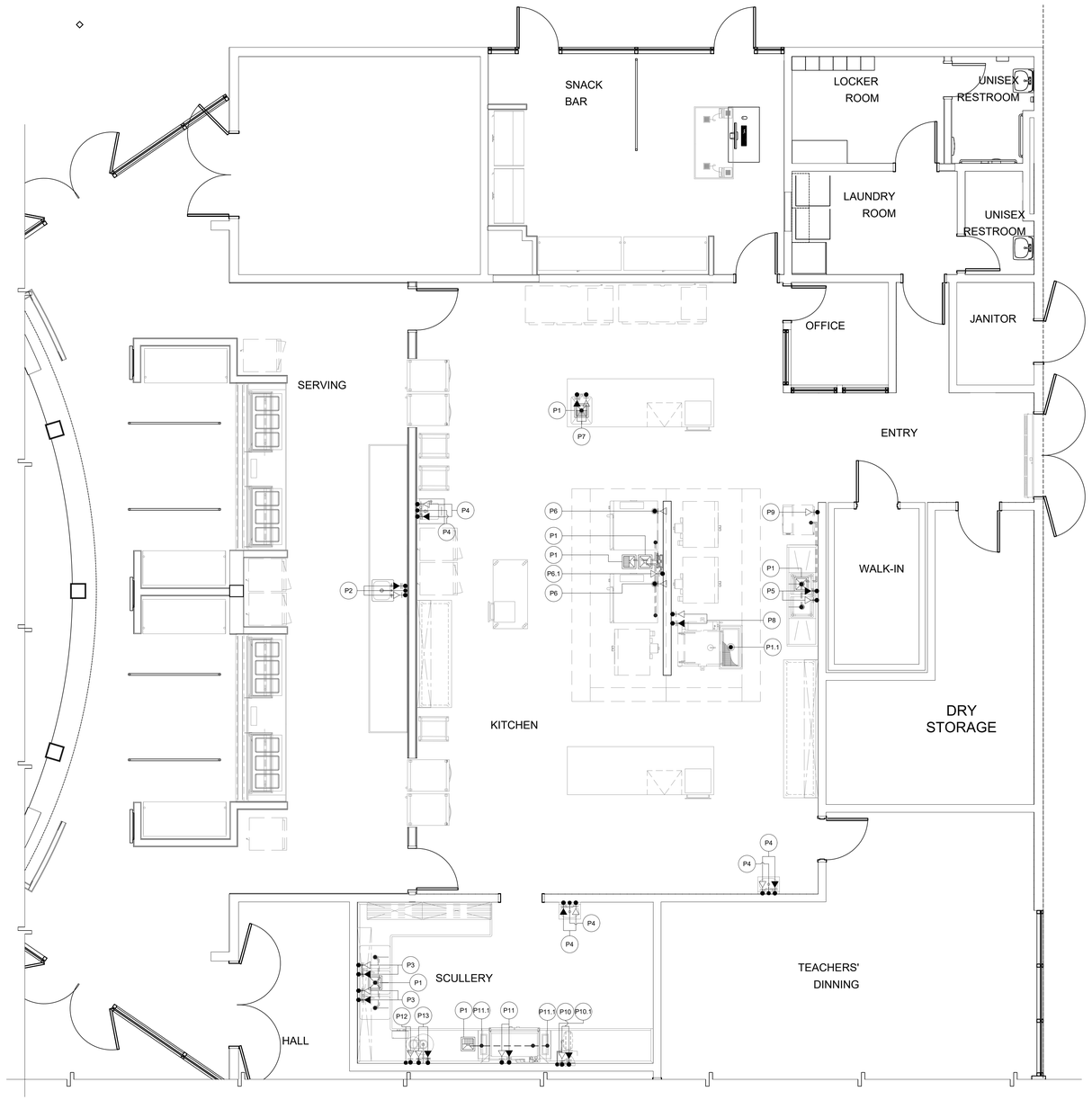

FOODSERVICE EQUIPMENT PLUMBING PLAN

SCALE : 1/4" = 1'-0"

1
FS2.1

NOTE

FOR FOODSERVICE EQUIPMENT PLUMBING SCHEDULE SEE SHEET FS2.2

PLUMBING NOTES

1. PLUMBING CONTRACTOR TO VERIFY ALL INCOMING SERVICE AND MAKE FINAL HOOK-UPS TO ALL APPLICABLE EQUIPMENT AND TO PROVIDE ALL PIPING, TEES, ELLS, TRAPS, FILTERS, REGULATORS, FAUCETS, ETC., UNLESS SPECIFICALLY STATED OTHERWISE.
2. ALL HORIZONTAL DIMENSIONS SHOWN ON PLAN ARE FROM FINISHED FACE OF WALL TO CENTERLINE OF STUB-OUT OR FROM CENTERLINE OF STUB-OUT TO CENTERLINE OF STUB-OUT, UNLESS NOTED OTHERWISE ON PLAN OR DETAILS.
3. (VERIFY ALL DIMENSIONS)
4. SYMBOLS NOTED +24", +48", ETC., INDICATES TO STUB-OUT OF WALL AT HEIGHT INDICATED. HEIGHT IS GIVEN FROM FINISHED FLOOR (NOT FINISHED CURB) TO CENTERLINE OF STUB-OUT. SYMBOLS INDICATED "STUB-UP" AND "STUB-DOWN" ARE TO EXTEND ABOVE FINISHED FLOOR AND/OR BELOW FINISHED CEILING AT LOCATION SHOWN.
5. PLUMBING STUBS AND CONNECTIONS SHOWN ON PLANS ARE FOR EQUIPMENT FURNISHED BY THE FOOD SERVICE EQUIPMENT CONTRACTOR.
6. FLOOR SINKS SHOWN ARE TO BE SET FLUSHED WITH TOP OF FINISHED FLOOR. FLOOR SINKS INDICATED HALF-IN AND HALF-OUT OF EQUIPMENT TO BE SET FLUSHED WITH TOP OF FINISHED FLOOR. FLOOR SINKS LOCATED COMPLETELY WITHIN EQUIPMENT AREA TO BE SET FLUSHED WITH TOP OF FINISHED FLOOR.
7. PLUMBING CONTRACTOR TO PROVIDE AND INSTALL REMOVABLE COVERS OR GRATES FOR ALL FULLY OR PARTIALLY EXPOSED FLOOR SINKS. GRATES TO HAVE 1/2" MAX OPENINGS WHERE DRAIN IS EXPOSED TO P.O.T OR TO PEDESTRIAN WAYS TYP.
8. PLUMBING CONTRACTOR SHALL SEAL ALL PLUMBING PENETRATIONS THROUGH WALLS, FLOORS, AND CEILINGS. WATERTIGHT AND VERMIN-PROOF.
9. PLUMBING CONTRACTOR TO PROVIDE AND INSTALL SHUT-OFF VALVES ON ALL WATER AND GAS LINES, INCLUDING VALVES IN FIXTURES, LOCATED IN SUCH A WAY AS TO BE ACCESSIBLE WITHOUT USE OF TOOLS.
10. PLUMBING CONTRACTOR TO PROVIDE AND INSTALL FOR ALL APPLICABLE EQUIPMENT, A TRAPPED FLOOR SINK WITH A LEGAL AIR GAP DRAIN LINE (INDIRECT WASTE) TO FLOOR SINK. INSULATE ALL DRAIN LINES FROM ICE BINS, ICE MACHINES, REFRIG. EQUIP., ETC..

FOODSERVICE PLUMBING LEGEND

ABREV./SYMB.	DESCRIPTION	SYMBOL	DESCRIPTION
C.W.	COLD WATER	P1	PLUMBING SCHEDULE REFERENCE, REFER TO FS2.1 FOR SCHEDULE
H.W.	HOT WATER	1 1	SHEET AND/OR KEY NOTE
DIR.	WASTE (DIRECT CONNECTION)		COLD WATER INLET
INDIR.	INDIRECT WASTE (AIR GAP)		HOT WATER INLET
LAV.	LAVATORY		WATER CONNECTION TO EQUIPMENT
W.C.	WATER CLOSET		SHUT OFF VALVE (S.O.V.)
F.S.	FLOOR SINK		COLD WATER SHUT OFF VALVE
P.C.	PLUMBING CONTRACTOR		GAS SHUT-OFF VALVE
G.C.	GENERAL CONTRACTOR		FLOOR SINK
K.E.C.	KITCHEN EQUIPMENT CONTRACTOR		FLOOR DRAIN
S.O.V.	SHUT OFF VALVE		WASTE DOWN
GPH	GALLONS PER HOUR		GAS INLET
PSI	POUNDS PER SQUARE INCH		WALK-IN DRAIN LINE
(F)	DEGREES FAHRENHEIT		I.D. DRAIN LINE
CONN.	CONNECT		
LOC.	LOCATE		

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PLUMBING SCHEDULE

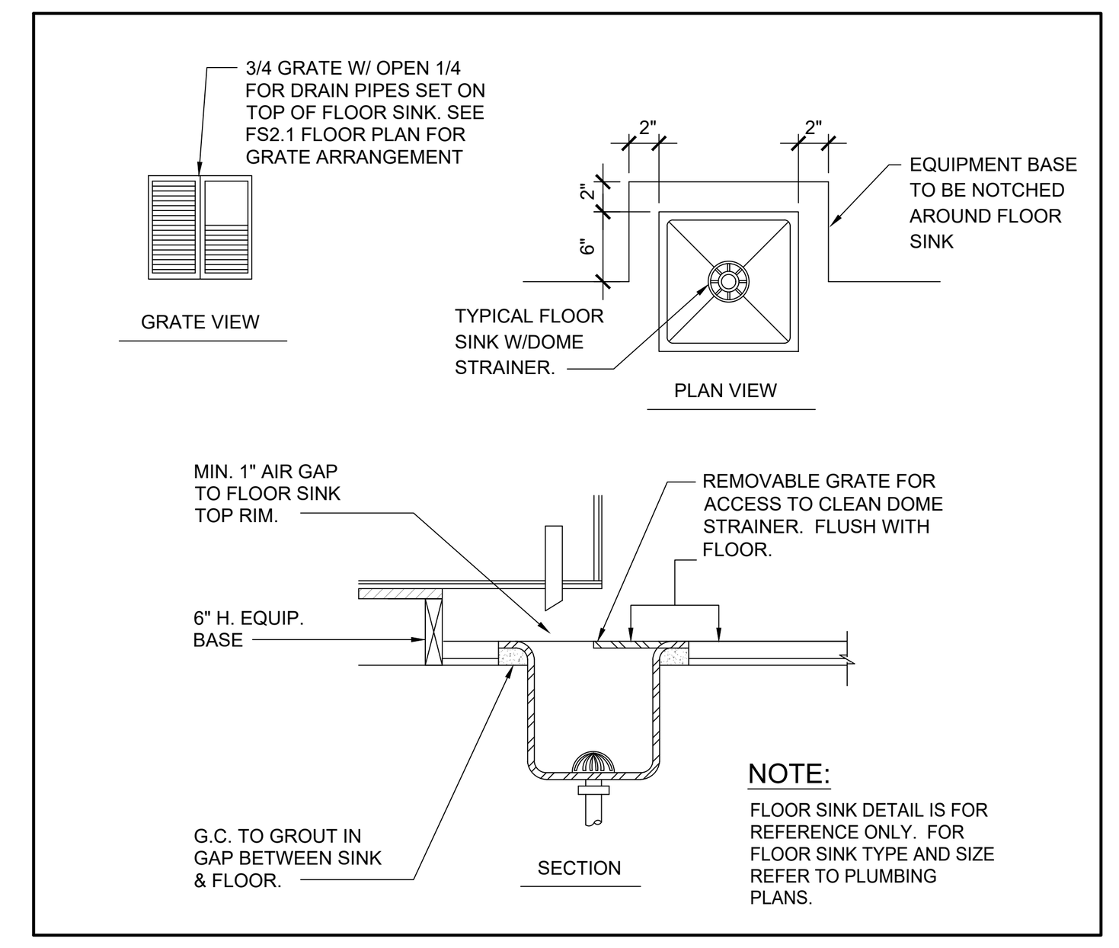
PLUM. NO.	ITEM. NO.	DESCRIPTION	QTY.	WATER CONN. SIZE C.W.	WATER CONN. SIZE H.W.	WATER HGT.@ WALL	WASTE CONN. SIZE DIR.	WASTE CONN. SIZE INDIR.	WASTE HGT.@ WALL	GAS BTU/HR (x1,000)	GAS CONN. SIZE	GAS HGT. @ WALL	REMARKS	NOTE(S)
P1	-	FLOOR SINK	6EA.	-	-	-	-	-	0"	-	-	-	INSTALL FLUSH WITH FINISH FLOOR, PROVIDE GRATE COVER W/ DOME STRAINER, REFER TO PLUMBING PLANS FOR TYPE AND SIZE.	
P1.1	29	FLOOR TROUGH	1EA.	-	-	-	4"	-	-7"	-	-	-	CONNECT TO FLOOR TROUGH REFER TO 3/FS2.2 VERIFY LOCATION WITH EQUIPMENT PLACEMENT	
P2	5	HAND SINK FAUCET W/ 1/2" INLET 4" CENTER	2EA.	1/2"	1/2"	18"	1 1/2"	-	24"	-	-	-	PROVIDE S.O.V., RUN PIPING TO UNIT CONNECTION. PROVIDE 2" INDIRECT DRAIN TO F.S. P1.	
P3	39	POTWASH SINK FAUCET W/ 3/4" INLET 8" CENTER	2EA.	3/4"	3/4"	16"	-	2"	-	-	-	-	PROVIDE S.O.V., RUN PIPING TO UNIT CONNECTION. PROVIDE 2" INDIRECT DRAIN TO F.S. P1. (CHROME OR PAINT SILVER)	
P4	15,27	WALL MOUNTED HAND SINK FAUCET W/ 1/2" INLET 4" CENTER	3EA.	1/2"	1/2"	18"	1 1/2"	-	24"	-	-	-	PROVIDE S.O.V., RUN PIPING TO UNIT CONNECTION. RUN DIRECT WASTE WITH P-TRAP.	
P5	17	PREP SINK SPLASH MOUNT FAUCET W/ 1/2" INLET 8" CENTER	1EA.	1/2"	1/2"	16"	-	2"	-	-	-	-	PROVIDE S.O.V., RUN PIPING TO UNIT CONNECTION. PROVIDE 2" INDIRECT DRAIN TO F.S. P1. (CHROME OR PAINT SILVER)	
P6	20	COMBI OVEN / TREATED WATER	2EA.	3/4"	-	24"	-	2"	-	-	-	-	PROVIDE S.O.V., RUN PIPING TO UNIT CONNECTION. VERIFY UTILITY/PLUMBING REQUIREMENTS FOR OFCI ITEMS	1 2 8
P6.1	20.1	WATER FILTRATION SYSTEM	2EA.	3/4"	-	48" / 24"	-	-	-	-	-	-	WATER FILTERS TO PROVIDE FILTERED WATER CONNECTION TO STEAMERS PROVIDE S.O.V., RUN PIPING TO UNIT CONNECTION.	1 2
P7	24	CHEFS SINK FAUCET W/ 1/2" INLET 8" CENTER	2EA.	1/2"	1/2"	16"	-	2"	-	-	-	-	PROVIDE S.O.V., RUN PIPING TO UNIT CONNECTION. PROVIDE 2" INDIRECT DRAIN TO F.S. P1.	
P8	34	TILT SKILLET WATER CONNECTION	1EA.	1/2"	1/2"	18"	-	-	-	-	-	-	PROVIDE S.O.V., RUN PIPING TO UNIT CONNECTION. VERIFY UTILITY/PLUMBING REQUIREMENTS FOR OFCI ITEMS	1 7
P9	35	ICE MAKER	1EA.	1/2"	-	18"	-	2"	-	-	-	-	PROVIDE S.O.V., RUN PIPING TO UNIT CONNECTION. PROVIDE 2" INDIRECT DRAIN TO F.S. P1.	1 7
P10	6	HOSE REEL AND CONTROL BOX 1/2" INLET 4" INLET CENTER	1EA.	-	-	-	-	-	-	-	-	-	RUN PIPING TO UNIT CONNECTION. INSTALL FISHER 14540 VACUUM BREAKER WATER SUPPLIED TO HOSE REEL FROM CONTROL BOX WITH 1/2" CONNECTION	3
P10.1	6	HOSE REEL AND CONTROL BOX	1EA.	1/2"	1/2"	66"	-	-	-	-	-	-	RUN (1) 1/2 PIPING FROM CONTROL BOX WATER OUTLET TO HOSE REEL WATER INLET CONNECTION	
P11	10	RACK CONVEYOR WAREWASHER W/BUILT-IN BOOSTER	1EA.	1/2"	1/2"	12"	-	2"	-	-	-	-	PROVIDE S.O.V., RUN PIPING TO UNIT CONNECTION VERIFY UTILITY/PLUMBING REQUIREMENTS FOR OFCI ITEMS	3 4 5 6 8
P11.1	7,8	STAINLESS STEEL SUMP DRAIN	2EA.	-	-	-	-	1/2"	-	-	-	-	PROVIDE 1/2" INDIRECT DRAIN TO F.S P1. (CHROME OR PAINT SILVER)	
P12	11	DISPOSER START/STOP CONTROL PANEL	1EA.	1/2"	-	16"	2"	-	6"	-	-	-	PROVIDE S.O.V., RUN PIPING TO UNIT CONNECTION. INSTALL SOLENOID VALVE FLOW CONTROL FURNISHED. 4/FS2.2	
P13	40	PRE-RINSE FAUCET, SPLASH MOUNT FAUCET W/ 1/2" INLET 8" CENTER	1EA.	1/2"	1/2"	16"	-	-	-	-	-	-	PROVIDE S.O.V., RUN PIPING TO UNIT CONNECTION.	

PLUMBING KEY NOTE(S):

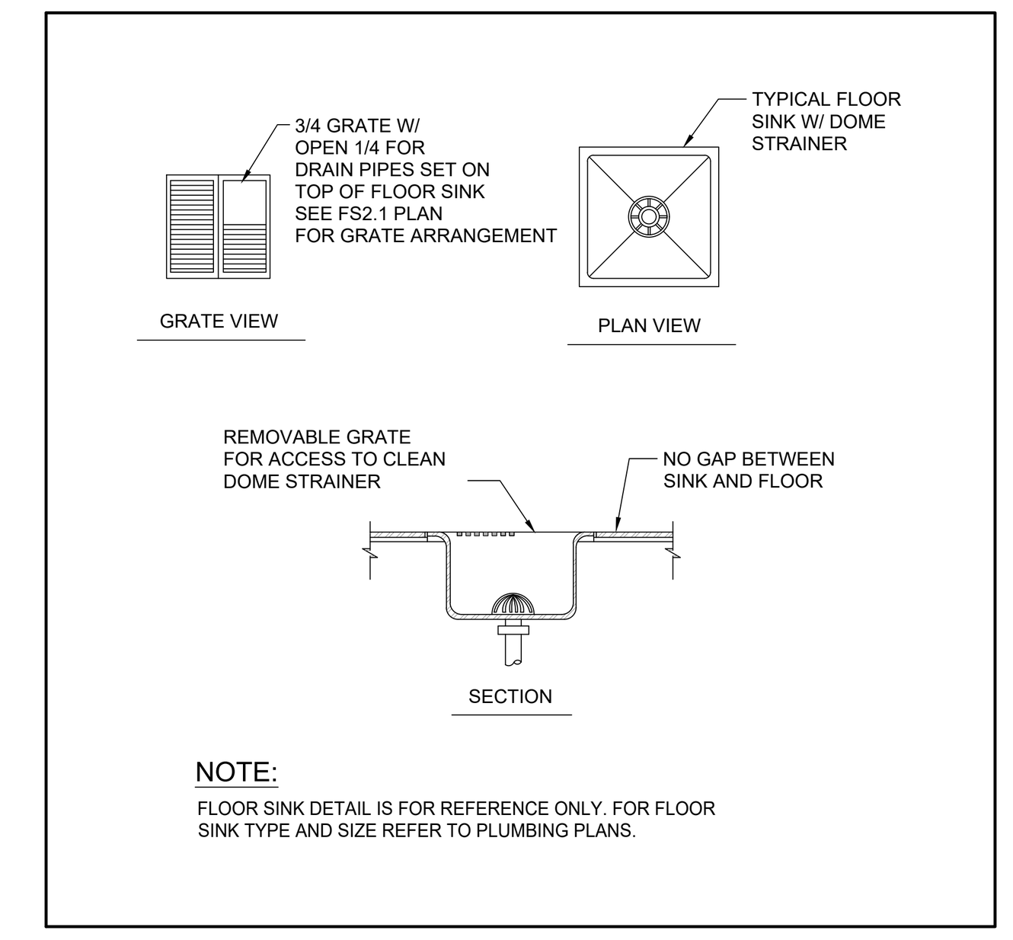
1. VERIFY WATER QUALITY MEETS MANUFACTURERS STANDARD MINIMUM REQUIREMENTS
2. CONNECT OUTLET FROM WATER FILTER TO TREATED WATER INLET ON COMBI OVEN ITEM 20
3. CONTRACTOR TO VERIFY AND COORDINATE UTILITIES AND LOCATIONS WITH EQUIPMENT AND ONSITE CONDITIONS
3. 110 DEGREE (F) MIN. WATER INLET HOT WATER SANITIZING 126 GPH.
4. WATER HAMMER ARRESTOR (MEETING ASSE-1010 STANDARD) BY PLUMBER IN SUPPLY LINE.
5. WATER PRESSURE 15-25 PSI- IF HIGHER, FURNISH PRESSURE REGULATOR VALVE WITH INTERNAL THERMAL EXPANSION BYPASS BY PLUMBER.
6. VERIFY WATER QUALITY MEETS MANUFACTURERS STANDARD MINIMUM REQUIREMENTS

FIRE SYSTEM NOTE:

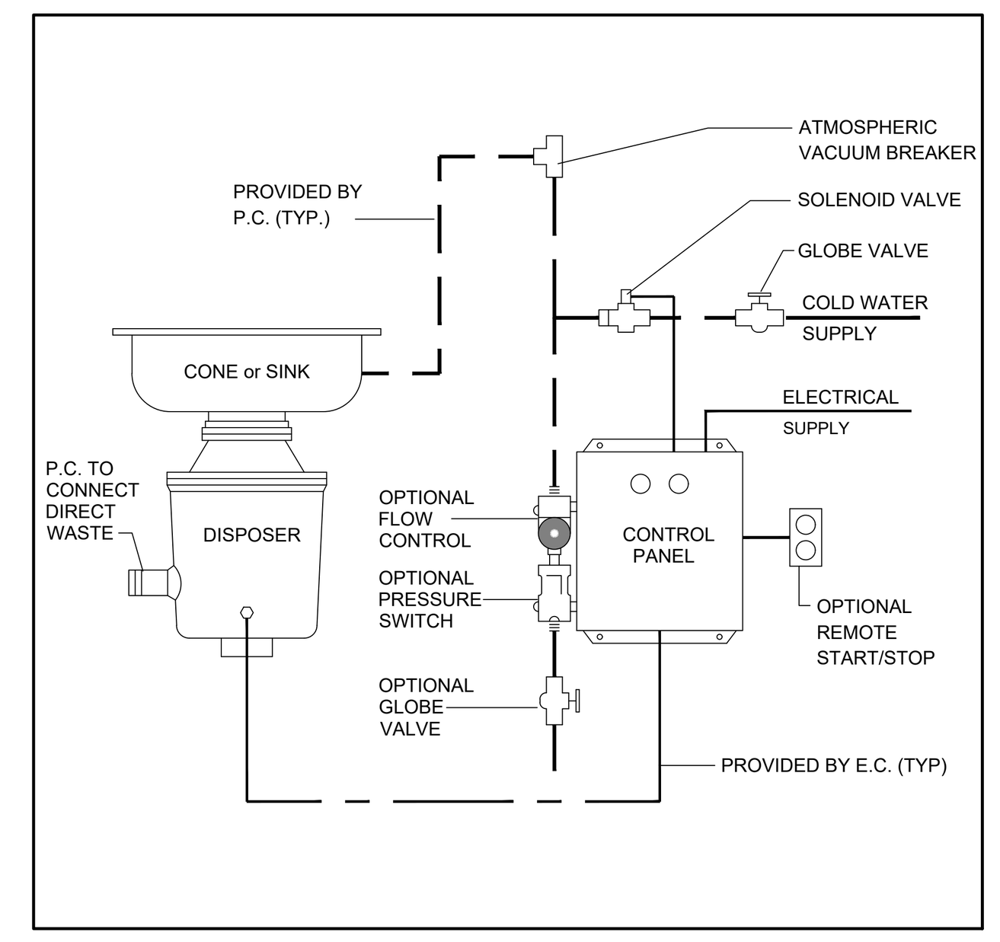
1. FURNISH AUTOMATIC GAS SHUT-OFF VALVE INCLUDING ANY NECESSARY ACCESS PANEL. CONTRACTOR SHALL INSTALL THE AUTOMATIC SHUT-OFF VALVE IN AN ACCESSIBLE LOCATION. REFER TO PLUMBING DRAWINGS FOR GAS VALVE LOCATION.



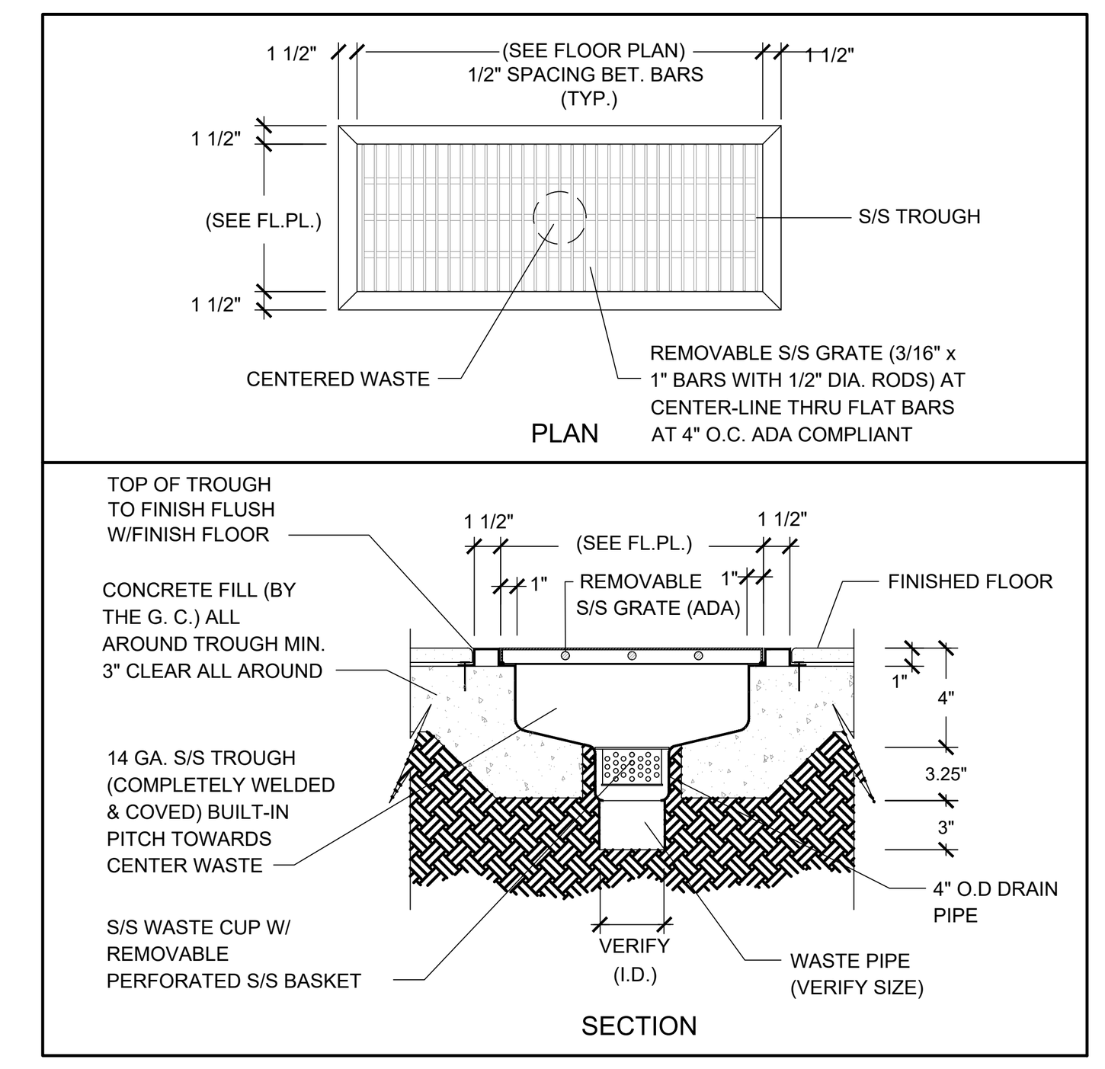
FLUSH FLOOR SINK DETAIL 1 FS2.2
SCALE : NONE



FLUSH FLOOR SINK DETAIL 2 FS2.2
SCALE : NONE



DISPOSER INSTALLATION 4 FS2.2
SCALE : NONE



FLOOR TROUGH W/GRATE 3 FS2.2
SCALE : NONE

NOTE
FOR FOODSERVICE EQUIPMENT PLUMBING PLAN SEE SHEET FS2.1

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LICENSED ARCHITECT MICHAEL CHESTER RATH C-25193 REN. 07/31/25 STATE OF CALIFORNIA

ISSUE

DESCRIPTION	DATE

AMD FOODSERVICE DESIGN

KEYNOTES

NOTES

FACILITY:
LUTHER BURBANK HIGH SCHOOL
3500 FLORIN RD
SACRAMENTO, CA 95823

PROJECT:
LUTHER BURBANK HIGH SCHOOL CAFETERIA MODERNIZATION

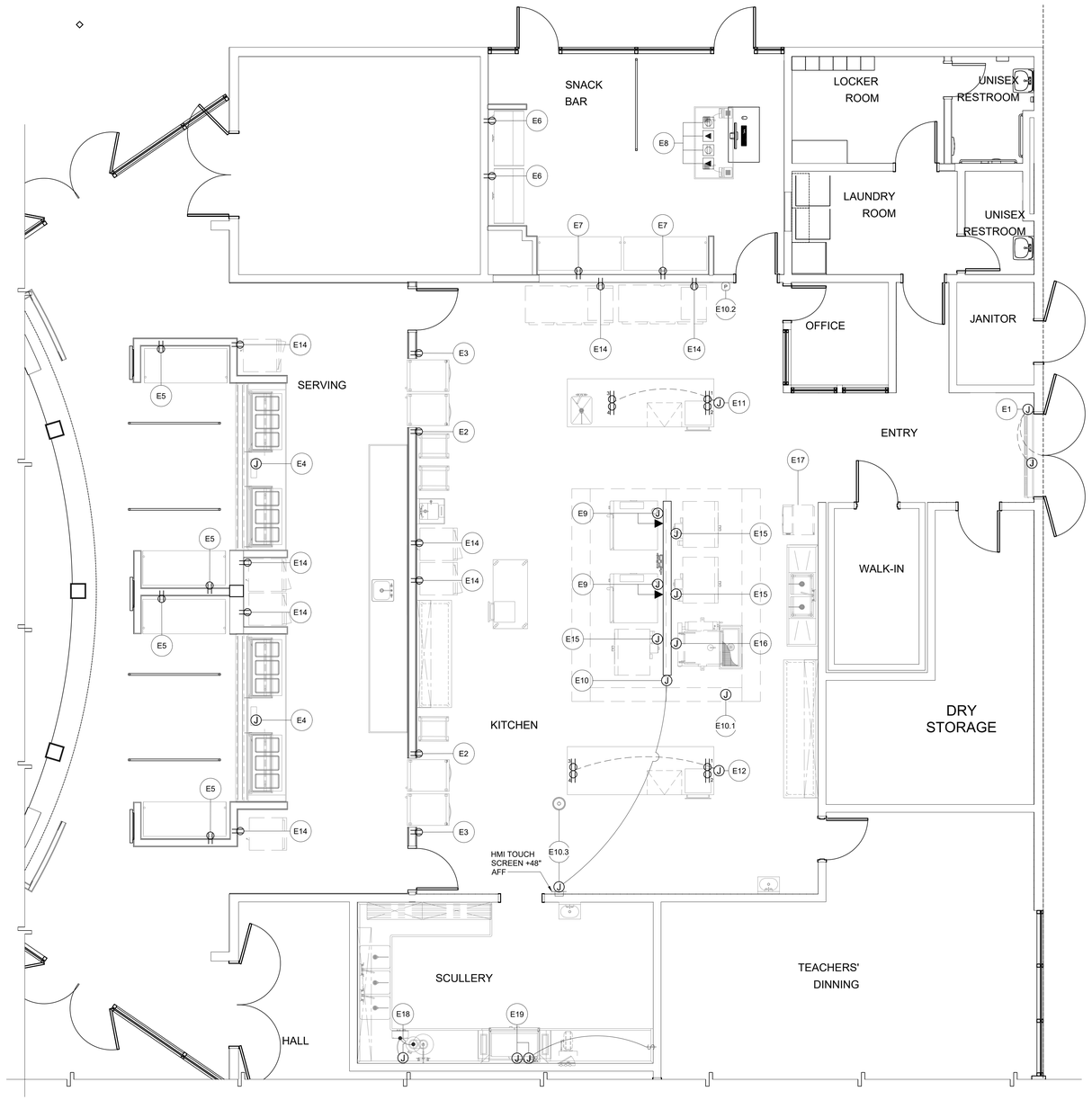
SHEET NAME:
FOODSERVICE EQUIPMENT PLUMBING SCHEDULE

DSA SUBMITTAL

DATE: 2024.09.13 CLIENT PROJ NO: 3186071000

SHEET:
FS2.2

PLEASE RECYCLE



FOODSERVICE EQUIPMENT ELECTRICAL PLAN

1
FS3.1

SCALE : 1/4" = 1'-0"

NOTE

FOR FOODSERVICE EQUIPMENT ELECTRICAL SCHEDULE SEE SHEET FS3.2

ELECTRICAL PLAN LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
AFF	ABOVE FINISHED FLOOR		ROOM TEMPERTURE SENSOR
CLG.	CEILING	J	JUNCTION BOX
CONN.	CONNECT	▲	DATA OUTLET
E.C.	ELECTRICAL CONTRACTOR	P	EMPTY OCTAGONAL BOX W/ CONDUIT TO +2" ABOVE CEILING BY E.C
FSEC	FOOD SERVICE EQUIPMENT CONTRACTOR		VAPOR-PROOF LIGHT FIXTURE AT EXHAUST HOOD (PROVIDED BY F.S.E.C. INSTALLED BY E.C.)
G.C.	GENERAL CONTRACTOR	J	STUBBED-UP JUNCTION BOX
P.R.P.	PRESSURE RELIEF PORT		STUBBED-UP CONVENIENCE OUTLET
S.F.	STAINLESS STEEL FABRICATOR		STUBBED-UP SIMPLEX OUTLET
M.C.	MECHANICAL CONTRACTOR	▲	STUBBED-UP DATA OUTLET
LOC.	LOCATE	$	WALL MOUNTED SWITCH BY E.C
E1	ELECTRICAL SCHEDULE REFERENCE, REFER TO FS3.2 FOR SCHEDULE		VAPOR-PROOF LED FIXTURE PROVIDED BY F.S.E.C. INSTALLED BY E.C.)
1 1	SHEET AND/OR KEY NOTE		VAPOR-PROOF LIGHT FIXTURE AT WALK-IN PROVIDED BY F.S.E.C. INSTALLED BY E.C.)
	DUPLEX CONVENIENCE OUTLET 115V/1Ø UNLESS OTHERWISE NOTED		
	SIMPLEX OUTLET SEE SCHEDULE FOR VOLTAGE		
	CEILING MOUNTED, VAPOR-PROOF LIGHT FIXTURE W/ JUNCTION BOX, 115V/1Ø UNLESS OTHERWISE NOTED (WALK-IN REFRIGERATOR)		

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FOODSERVICE EQUIPMENT ELECTRICAL PLAN

DSA SUBMITTAL

DATE: **2024.09.13**
CLIENT PROJ NO: **3186071000**

SHEET:

FS3.1

ELECTRICAL SCHEDULE

ELEC. NO.	ITEM NO.	DESCRIPTION	QTY.	VOLT.	PH	DIRECT	PLUG	NEMA	LOAD WATT	LOAD AMPS. DRAW	LOAD HP	OUTLET HEIGHT	REMARKS	NOTE(S)
E1	1	UNHEATED AIR CURTAIN	1EA.	120	1	X	-	-	-	3.4	1/6	+86"	PROVIDE J-BOX IN WALL INSTALL DOOR LIMIT SWITCH FOR INSTANT ON/OFF SWITCH, SEE C/FS8.2	
E2	3	PASS THROUGH WARMING & HOLDING CABINET	2EA.	208	1	-	X	6-15P	1500	15	-	+88"	PROVIDE DUPLEX RECEPTACLE IN WALL	8
E3	4	PASS THROUGH REFRIGERATED CABINET	2EA.	120	1	-	X	5-15P	-	3.8	1/4	+88"	PROVIDE DUPLEX RECEPTACLE IN WALL	8
E4	9	SERVING LINE LOAD CENTER	2EA.	120/208	1	X	-	-	-	100	-	+42"	PROVIDE J-BOX AT FLOOR CONNECT TO COUNTER LOAD CENTER- SERVING COUNTER TO BE FULLY WIRED AT FACTORY REFER TO FS9.2	
E5	12	REFRIGERATED GRAB N GO CASE	2EA.	208/240	1	-	X	6-20P	-	14.9	3/4	+88"	PROVIDE SIMPLEX RECEPTACLE IN WALL	8
E6	13	HEATED GRAB N GO CASE	2EA.	208/240	1	X	-	-	5.35kW	22.3	3/4	+88"	PROVIDE SIMPLEX RECEPTACLE IN WALL	8
E7	14	DISPLAY CASE, REFRIGERATED	2EA.	208/240	1	-	X	6-20P	-	14.9	3/4	+88"	PROVIDE SIMPLEX RECEPTACLE IN WALL	8
E8	16	CASHIER STATION (DATA) AND (POWER) VERIFY W/ DISTRICT FURNISHED POS UNIT	1EA.	120	1	-	X	-	-	20	-	+0"	PROVIDE (2) LOW PROFILE PEDESTAL DATA PLUGS AND (2) ELECTRICAL OUTLETS RUN ELECTRICAL FROM OUTLET FLUSH MOUNTED TO FLOOR	
E9	20	COMBI OVEN, ELECTRIC POWER AND DATA	2EA.	480	3	X	-	-	67.9kW	100	-	+48"	PROVIDE J-BOX CONNECT TO UNIT ELECTRICAL AND DATA CONNECTION CONTRACTOR TO VERIFY ELECTRICAL CONNECTIONS WITH MANUFACTURER	8 3
E10	21	EXHAUST HOOD CONTROL POWER	1EA.	120	1	X	-	-	-	20	-	+104"	PROVIDE J-BOX CONNECT TO UNIT ELECTRICAL CONNECTION REFER TO FS5.2 FOR ELECTRICAL SCHEMATIC	2
E10.1	21.1	FIRE SUPPRESSION SYSTEM	1EA.	120	1	X	-	-	-	20	-	+104"	PROVIDE J-BOX CONNECT TO UNIT ELECTRICAL CONNECTION REFER TO FS5.4	5
E10.2	21.1	FIRE SYSTEM (REMOTE PULL STATION)	1EA.	-	-	X	-	-	-	-	-	+48"	EMPTY FLUSH MT'D. OCTAGONAL BOX (REMOTE PULL) SEE FS5.3	4
E10.3	21.1	TOUCH SCREEN USER INTERFACE/ ARTD (ROOM SENSOR) /CONTROL POWER	1EA.	120	1	-	-	-	-	5	-	+48"	CONNECT TO DEMANDAIRE CONTROL PANEL RECESS IN WALL REFER TO FS5.2 FOR ELECTRICAL SCHEMATIC	2 6
E11	23	CHEFS COUNTER	4EA.	120	1	X	-	-	-	15EA.	-	+34"	PROVIDE (2) DOUBLE FACED PEDESTAL DUPLEX RECEPTACLE MT'D. ON COUNTER TOP (COMPONENT HARDWARE NO. R58-1020)(R71-0721)	7
E12	25	CHEFS COUNTER	4EA.	120	1	X	-	-	-	15EA.	-	+34"	PROVIDE (2) DOUBLE FACED PEDESTAL DUPLEX RECEPTACLE MT'D. ON COUNTER TOP (COMPONENT HARDWARE NO. R58-1020)(R71-0721)	7
E13	31	REACH -IN FREEZER	2EA.	208	1	-	X	-	-	12	-	+86"	PROVIDE DUPLEX RECEPTACLE FLUSH WITH WALL VERIFY VOLTAGE AND UTILITY REQUIREMENTS (OWNER FURNISHED EQUIPMENT)	8
E14	32	MOBILE WARMING CABINET UTILITY LOCATIONS	6EA.	120	1	-	X	-	-	20		+36"	PROVIDE DUPLEX RECEPTACLE FLUSH WITH WALL VERIFY VOLTAGE AND UTILITY REQUIREMENTS (OWNER FURNISHED EQUIPMENT)	8
E15	33	DOUBLE STACK CONVECTION OVEN ELECTRIC	3EA.	480	3	X	-	-	12.5KW	20	-	+36"	PROVIDE J-BOX CONNECT TO UNIT ELECTRICAL CONNECTION VERIFY VOLTAGE AND UTILITY REQUIREMENTS (OWNER FURNISHED EQUIPMENT)	8
E16	34	TILT SKILLET	1EA.	480	3	X	-	-	12.5KW	13.8	-	+36"	PROVIDE J-BOX CONNECT TO UNIT ELECTRICAL CONNECTION VERIFY VOLTAGE AND UTILITY REQUIREMENTS (OWNER FURNISHED EQUIPMENT)	8
E17	35	ICE MAKER	1EA.	-	-	-	-	-	-	-	-	-	ITEM POWER EXISTING TO REMAIN	8
E18	11	GARBAGE DISPOSER W/ CONTROL PANEL	1EA.	208	1	X	-	-	-	12.1	-	+16"	PROVIDE J-BOX IN WALL CONNECT TO UNIT ELECTRICAL CONNECTION	
E19	10	WAREWASHER, RACK CONVEYOR	1EA.	480	3	X	-	-	-	51.7	-	+64"	PROVIDE J-BOX IN WALL CONNECT TO UNIT POWER CONNECTION INTERCONNECT LIMIT SWITCH AT END OF CLEAN DISH TABLE.	8 9

ELECTRICAL KEYNOTES:

2. INTERCONNECT TO HMI TOUCH SCREEN TO EXHAUST HOOD SEE FS5.2
3. PROVIDE INTERLOCK WIRING FROM FIRE PROTECTION SYSTEMS TO ELEC. SHUNT TRIP BREAKERS
4. PROVIDE EMPTY FLUSH MT'D. OCTAGONAL BOX @ +48" AFF. W/ EMPTY CONDUIT TO +2" ABOVE CEILING.
5. VERIFY AND PROVIDE ALL J-BOXES, ELECTRICAL CONDUIT AND CONNECTIONS NEEDED FOR PROPER OPERATION / CONFIGURATION OF EXHAUST HOOD AND FIRE SYSTEM. REFER TO FS5.2/FS5.3 FOR DETAILS.
6. ELECTRICAL CONTRACTOR TO PROVIDE J-BOX W/ EMPTY CONDUIT FROM +2" ABOVE CEILING IN WALL TO AMBIENT TEMPERATURE MONITOR AND HMI TOUCH SCREEN.
7. MANUFACTURER OF CHEFS COUNTER TO PROVIDE CONDUIT FROM J-BOX LOCATION TO PEDESTAL OUTLETS
8. CONTRACTOR TO VERIFY AND COORDINATE UTILITIES AND LOCATIONS WITH OWNER SUPPLIED EQUIPMENT AND ONSITE CONDITIONS
9. PROVIDE SECOND J-BOX AND CONDUIT TO INTERCONNECT TO FAN ON ROOF

ELECTRICAL NOTES

1. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL ROUGH-INS, FINAL CONNECTIONS AND INTER-CONNECTIONS TO THE FOOD SERVICE EQUIPMENT
2. CONNECTIONS SHOWN ARE FOR THE FOOD SERVICE EQUIPMENT ONLY. REFER TO ELECTRICAL DRAWINGS FOR CONVENIENCE OUTLETS AND ADDITIONAL REQUIREMENTS.
3. RECEPTACLES, JUNCTION/HANDY BOXES INDICATED AT WALLS SHALL BE CONCEALED IN THE WALL AND STUBBED OUT OF THE WALL AT THE HEIGHT INDICATED.
4. RECEPTACLES, JUNCTION/HANDY BOXES INDICATED AT WALLS SHALL BE CONCEALED IN THE WALL AT THE HEIGHT INDICATED.
5. VERTICAL DIMENSIONS ARE GIVEN FROM FINISHED FLOOR TO CENTER LINE OF ROUGH-IN LOCATION.
6. UTILITIES WHEREVER POSSIBLE SHALL BE BROUGHT IN FROM ABOVE,
7. VERIFY THE UTILITY REQUIREMENTS OF OWNER FURNISHED AND/OR EXISTING EQUIPMENT.
8. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND/OR INSTALL ALL JUNCTION/HANDY BOXES, EXTENSION RINGS, DISCONNECT WITCHES AS SHOWN, CONVENIENCE OUTLETS WITH STAINLESS STEEL OVERS, SWITCHES, CONNECTORS, CONTROLS AND OTHER ACCESSORIES THAT ARE NOT AN INTEGRAL PART OF THE FOOD SERVICE EQUIPMENT AS REQUIRED TO MAKE FINAL CONNECTIONS TO THE EQUIPMENT FOR A COMPLETE AND OPERABLE OPERATION MEETING ALL APPLICABLE CODES AND ORDINANCES.
9. JUNCTION/HANDY BOXES, CONVENIENCE OUTLETS AND SPECIAL PURPOSE OUTLETS SHOWN IN FABRICATED WORK TABLES AND COUNTERS SHALL BE FURNISHED BY FABRICATOR, ELECTRICAL CONTRACTOR TO PROVED ALL WIRING & RECEPTACLES.
10. ELECTRICAL DIVISION TO CONFIGURE PLUG AND OUTLET REQUIREMENTS IN ACCORDANCE WITH LOCAL REQUIREMENTS. THESE DRAWINGS ARE ELECTRICAL POINT OF CONTACT REQUIREMENTS ONLY.

ELECTRICAL CONNECTION ACCESS

1. - WHERE ITEMS CONNECT TO UTILITY UNDER COUNTER, CONTRACTOR TO VERIFY THAT A GROMMET HOLE IS PROVIDED FOR NECESSARY ACCESS TO CONNECT EQUIPMENT TO UTILITY.

EXHAUST HOOD ELECTRICAL NOTES

1. - ELECTRICAL CONTRACTOR TO PROVIDE ALL HIGH/LOW VOLTAGE CONNECTIONS REQUIRED BY EXHAUST HOOD MANUFACTURER. SEE FOODSERVICE EXHAUST HOOD MANUFACTURER SHEETS FOR DETAILS.
2. - ALL ELECTRICAL CONDUIT THAT IS PROVIDED BY E.C. TO BE RECESSED IN WALL (NO SURFACE MOUNT CONDUIT)
3. - VERIFY ALL EXHAUST HOOD AND EXHAUST HOOD COMPONENTS ELECTRICAL REQUIREMENTS WITH MANUFACTURER DRAWINGS.

NOTE

FOR FOODSERVICE EQUIPMENT ELECTRICAL PLAN SEE SHEET FS3.1

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3500 FLORIN RD
SACRAMENTO, CA 95823

PROJECT:
LUTHER BURBANK HIGH SCHOOL CAFETERIA MODERNIZATION

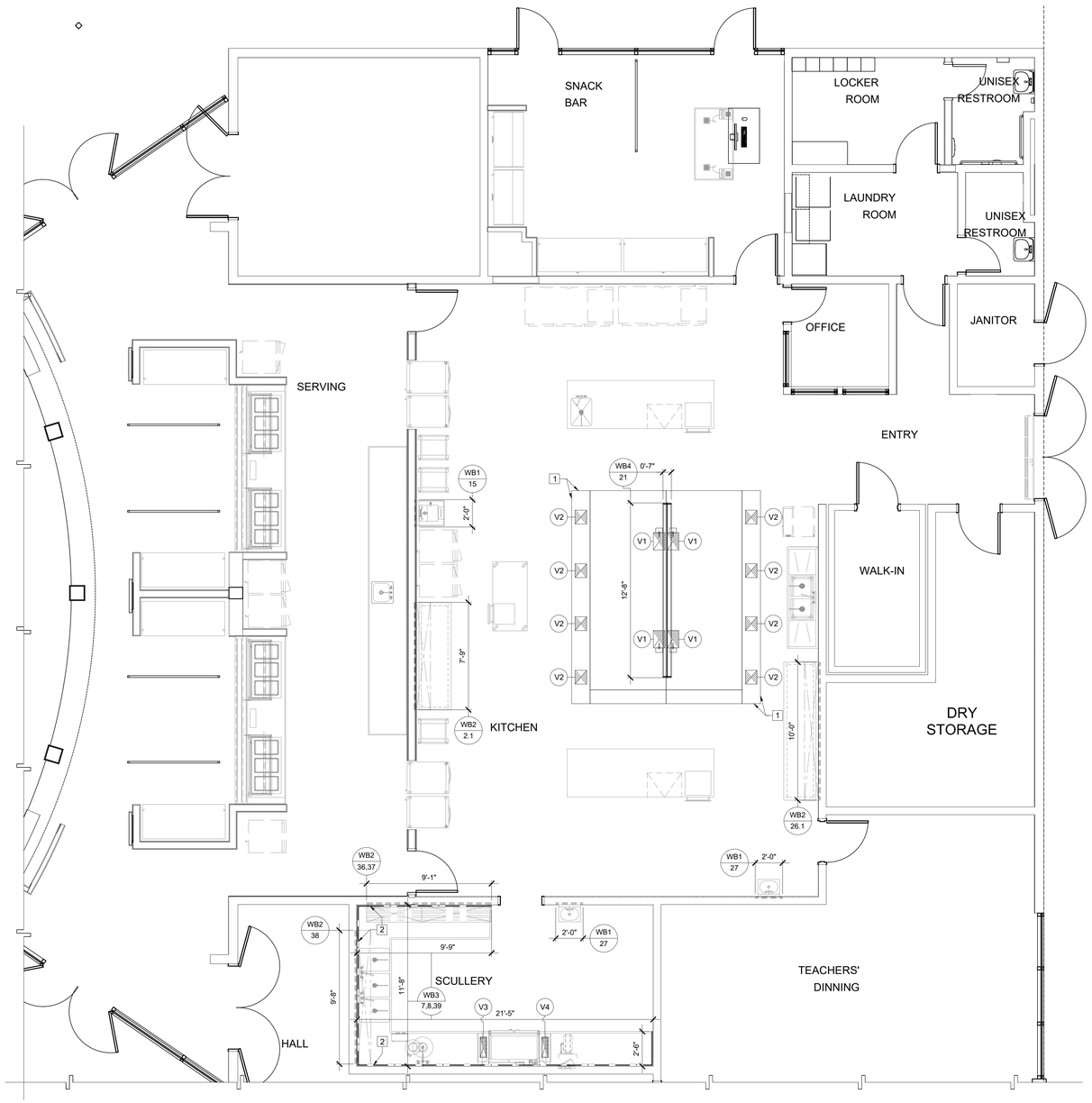
SHEET NAME:
FOODSERVICE EQUIPMENT ELECTRICAL SCHEDULE

DSA SUBMITTAL

DATE: 2024.09.13 CLIENT PROJ NO: 3186071000

SHEET:
FS3.2

THE LINE BROWN ABOVE IS EXACTLY 1" LONG ON ORIGINAL 24x36 SHEETS ORIGINAL SHEET SIZE



FOODSERVICE EQUIPMENT MECHANICAL PLAN

SCALE : 1/4" = 1'-0"

1 FS4.1

VENTILATING REQUIREMENTS

DUCT NO.	ITEM NO.	DESCRIPTION	ITEM QTY.	RISER SIZE HEIGHT	WIDTH	LENG.	CFM	S.P.-WC"	OUTLET HEIGHT	REMARKS
V1	21	EXHAUST DUCT EXHAUST HOOD	4EA.	8"	10"	15"	1514	0.63"	108"	MAKE DUCT CONNECTION AT HOOD COLLAR REFER TO FS5.1 FOR EXHAUST HOOD DETAILS
V2	21	SUPPLY DUCT EXHAUST HOOD	8EA.	3"	10"	12"	606	0.40"	108"	MAKE DUCT CONNECTION AT HOOD COLLAR REFER TO FS5.1 FOR EXHAUST HOOD DETAILS
V3	10.1	DISHWASHER VENT COWL DUCT, VERIFY CFM AND SIZE WITH OFCI DISHWASHER / LOAD END	1EA.	10"	4"	16"	200	-	63 3/4"	MAKE DUCT CONNECTION AT VENT COWL CONTRACTOR TO VERIFY DISHWASHER EXHAUST DETAILS
V4	10.1	DISHWASHER VENT COWL DUCT , VERIFY CFM AND SIZE WITH OFCI DISHWASHER / UNLOAD END	1EA.	10"	4"	16"	400	-	63 3/4"	MAKE DUCT CONNECTION AT VENT COWL CONTRACTOR TO VERIFY DISHWASHER EXHAUST DETAILS

COOKING EXHAUST HOOD NOTES

1. - EACH AREA CONTAINING COOKING EXHAUST HOOD(S) WILL HAVE 80% MECHANICAL MAKE-UP AIR PROVIDED IN THE VOLUME OF THE AIR BEING EXHAUSTED.
2. - MAKE-UP AIR SHALL BE DELIVERED IN THE PROXIMITY OF THE EXHAUST HOOD(S) IN A MANNER NOT TO CREATE UNDUE AIR TURBULENCE IN THE WORKING AREAS.
3. - COOKING HOOD(S) EXHAUST AND MAKE-UP AIR SYSTEM(S) WILL BE CONNECTED BY AN ELECTRICAL INTER-LOCKING SWITCH.
4. - MAKE-UP AIR INTAKE MUST CLEAR AIR EXHAUST DISCHARGE BY A MINIMUM OF TEN (10) FEET, OR AS REQUIRED BY CODE(S).
5. - LOCATION OF COOKING HOOD EXHAUST DUCT(S) AND MAKE-UP AIR SYSTEM DUCT(S) ARE TO BE VERIFIED AT THE JOB SITE.
6. - IF REQUIRED BY LOCAL CODE(S), MAKE-UP AIR SYSTEM(S) SHALL BE CAPABLE OF DELIVERING TEMPERED AIR AT 70 DEGREES F..
7. -CONNECTING DUCTS FROM THE EXHAUST VENTILATORS TO THE EXHAUST AND/OR MAKE-UP AIR FANS SHALL BE SUPPLIED AND INSTALLED WITH ALL FINAL CONNECTIONS.
8. -PERFORMANCE TESTING FOR THE OPERATION OF THE TYPE 1 EXHAUST HOOD PER C.M.C. IS REQUIRED
9. -EXTRACTOR HOODS SHALL COMPLY TO THE C.M.C 2022, NFPA-2020, U.L, N.S.F, AND ALL LOCAL CODES AN ORDINANCES.

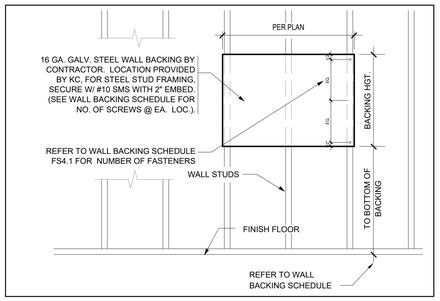
WALL BACKING NOTES

1. - WALL BACKING TO BE 16 GAUGE GALV. STEEL IN LENGTH AND HEIGHT AS SHOWN ON DRAWINGS.
2. - ALL WALL BACKING TO BE IN FURNISHED AND INSTALLED BY CONTRACTOR
3. - FOOD SERVICE EQUIPMENT CONTRACTOR IS TO FURNISH CONTRACTOR WITH DETAILED DRAWINGS SHOWING ALL WALL BACKING LOCATION AND SIZE.
4. - WALL BACKING AS SHOWN IS MINIMUM, EXTEND BACKING TO NEXT STUD EACH DIRECTION AS NECESSARY

WALL BACKING SCHEDULE

	APPLICATION	BOTTOM OF BACKING	BACKING HGT.	FASTENERS PER STUD	ANCHORAGE DETAIL
WB1 15,27	HAND SINK	+16" AFF	26" HIGH	4	B/FS8.2
WB2 2.1,26.1	WALL SHELF	+50" AFF	12" HIGH	3	G/FS8.1
WB3 7,8,39	WALL SPLASH	+80"AFF / +48"AFF	4" HIGH	2	J/FS8.1
WB4 21	WALL LINING	+76"AFF / +53"AFF / +29"AFF / +6"AFF	4" HIGH	2	I/FS8.1

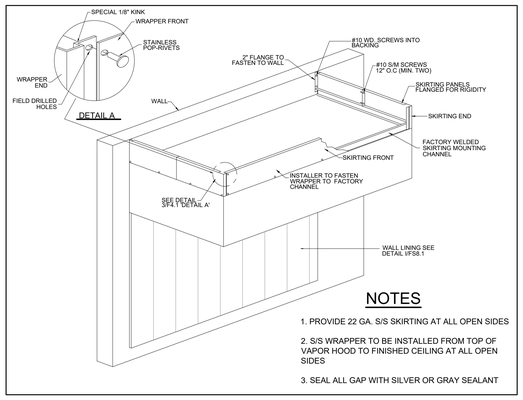
NOTES:
1. BACKING TO BE 16 GA. G.I. or C.R.S.
2. REFER TO 1/FS4.1 FOR WALL BACKING LOCATIONS



WALL BACKING DETAIL

SCALE : NONE

2 FS4.1



NOTES

1. PROVIDE 22 GA. S/S SKIRTING AT ALL OPEN SIDES
2. S/S WRAPPER TO BE INSTALLED FROM TOP OF VAPOR HOOD TO FINISHED CEILING AT ALL OPEN SIDES
3. SEAL ALL GAP WITH SILVER OR GRAY SEALANT

CLOSURE SKIRTING AT HOOD

SCALE : NONE

3 FS4.1

MECHANICAL SHEET NOTES

1. PROVIDE STAINLESS STEEL CLOSURE SKIRTING, REFER TO 4/FS4.1
2. STAINLESS STEEL WALL SPLASH J/FS8.1

FOODSERVICE MECHANICAL LEGEND

ABREV./SYMB.	DESCRIPTION	ABREV./SYMB.	DESCRIPTION
F.S.E.C	FOODSERVICE EQUIPMENT CONTRACTOR	V#	VENTILATING SCHEDULE REFERENCE REFER TO FS4.1 FOR SCHEDULE
M.C.	MECHANICAL CONTRACTOR		
S.F.	STAINLESS STEEL FABRICATOR	1	KEYNOTE SYMBOL (SEE SHEET NOTES FS4.1)
G.C.	GENERAL CONTRACTOR		
E.C.	ELECTRICAL CONTRACTOR	# TYPE / # ITEM	BLOCKING TYPE REFER TO FS4.1
CFM	CUBIC FEET PER MINUTE		
SP	STATIC PRESSURE		EXHAUST DUCT CONNECTION
— — · —	S/S WALL SPLASH REFER TO J/FS8.1		SUPPLY DUCT CONNECTION
- - - - -	WALL BACKING		
———	INSULATED S/S WALL LINING 1/FS4.1 FOR LOC.		VENT COWL DUCT DISHWASHER

AGENCY APPROVAL:

REVIEWING AGENCIES STAMP HERE

Sacramento City UNIFIED SCHOOL DISTRICT

HMC Architects

3186-071-000

2101 CAPITOL AVENUE, SUITE 100,
SACRAMENTO, CA, 95816
916 368 7990 / www.hmcarchitects.com

LICENSED ARCHITECT MICHAEL CHESTER BATH C-25193 REN. 07/31/25 STATE OF CALIFORNIA

ISSUE

Δ	DESCRIPTION	DATE

AMD FOODSERVICE DESIGN

KEYNOTES

NOTES

FACILITY:
LUTHER BURBANK HIGH SCHOOL
3500 FLORIN RD
SACRAMENTO, CA 95823

PROJECT:
LUTHER BURBANK HIGH SCHOOL CAFETERIA MODERNIZATION

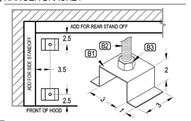
SHEET NAME:
FOODSERVICE EQUIPMENT MECHANICAL PLAN

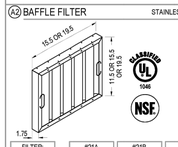
DSA SUBMITTAL

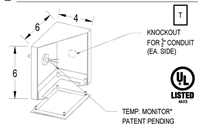
DATE: **2024.09.13** | CLIENT PROJ NO: **3186071000**

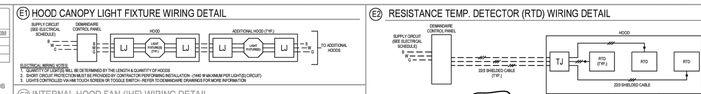
SHEET:

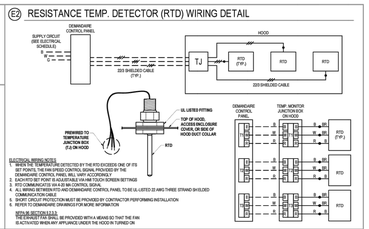
FS4.1











THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS SHEET'S ORIGINAL PAGE SIZE

(A1) HANGER BRACKET

- (B1) STAINLESS STEEL HANGER BRACKET
- (B2) ⅜" THREADED ROD
- (B3) ⅜" HEAVY DUTY LOCK NUTS, (1) ABOVE (1) BELOW

(THREADED ROD & LOCK NUTS NOT PROVIDED)

(A2) BAFFLE FILTER

STAINLESS STEEL

FILTER:			#21A		#21B			
H x L	EFF AREA		QTY	AREA	QTY	AREA	QTY	AREA
1616	1.36	X	3	4.08	3	4.08		
1620	1.75	X	6	10.50	6	10.50		
TOTAL EFF AREA =				14.58	=	14.58	=	

HOOD EX. CFM ÷ TOTAL EFF AREA = FPM
OPERATING RANGE OF THE FILTER (200 TO 400 FPM)

(A3) HOOD CANOPY LIGHTING FIXTURE

- LED WARM - 2800K-3500K
- ONLY UL LISTED LED EDISON-STYLE BULB RATED TO 75°C (167°F)
- MEETS NFPA CODE 96 & NEC 410
- SPECIFICALLY DESIGNED FOR CANOPY HOODS
- VOLTAGE - UL LISTED AT 120V
- 12 WATTS - 960 LUMENS

(A4) LISTED ENCLOSURE W/ TEMP. MONITOR

REMOVABLE COVER ALLOWS EASY ACCESS FOR INSTALLATION, ADJUSTMENTS AND SERVICE OF MONITORING EQUIPMENT FROM UNDER THE HOOD.

*FOR TEMPERATURE MONITOR WIRING SEE DETAIL E2

(A5) DUCT CONNECTION DETAIL

EXHAUST DUCT COLLAR DETAIL

BALANCEAIRE INCLUDED

INTERNALLY ADJUSTABLE VARIABLE VOLUME DAMPER

US PATENT# D634,419 S

THE BALANCEAIRE'S OPPOSED BLADES CAN BE ADJUSTED TO VARYING POSITIONS FROM 100% OPEN TO 95% CLOSED TO INCREASE OR DECREASE THE AMOUNT OF RESISTANCE IN THE HOODS EXHAUST COLLAR. THE EXHAUST FAN MUST BE SIZED TO ACCOUNT FOR THE BALANCEAIRE'S ADDED RESISTANCE.

EXHAUST COLLAR APPROVAL

OPTIONS

☐ SHIP COLLAR LOOSE (THE PURCHASER ACCEPTS THE OBLIGATION AND COST OF CUTTING/WELDING COLLAR)

☐ WELD COLLAR TO HOOD (DIMENSIONS REQUIRED)

DRAWING APPROVAL

THIS DRAWING MUST BE REVIEWED, SIGNED & RETURNED TO STREIVOR AIR SYSTEMS PRIOR TO THE START OF FABRICATION.

VERIFY THE FOLLOWING:

1. ALL DIMENSIONAL INFORMATION, MOUNTING LOCATIONS & CLEARANCES.
2. THE LOCATION & TYPE OF COOKING EQUIPMENT.

APPROVED FOR FABRICATION

☐ APPROVED ☐ APPROVED AS NOTED

☐ REVISE & RESUBMIT

APPROVED BY ____________ DATE

NOTE TO REVIEWER:

ANY CHANGES IN COOKING EQUIPMENT SUCH AS EQUIPMENT POSITION, TYPE AND/OR INCREASE IN ENERGY OUTPUT MAY AFFECT EXHAUST AIRFLOW. STREIVOR AIR SYSTEMS MUST BE NOTIFIED OF ANY CHANGES THAT OCCUR PRIOR TO FABRICATION, A RE-ENGINEERING OF THE EXHAUST AIRFLOW MAY BE REQUIRED.

HOOD SCHEDULE

UL LISTED STD 710 · NFPA · NSF

						EXHAUST			DIST. FROM COOKING SURFACE TO LOWER EDGE OF HOOD. (OH1)		MINIMUM OVERHANG OPEN SIDES		EQUIP. DUTY TEMPERATURE
NO.	MODEL	L	W	H	WEIGHT	SPEC. CFM	SP	CFM/FT	MIN.	MAX.	SIDE (OH2)	FRONT (OH3)	MAX.
21A	WCBD 1736622.5	173	66	22.5	1491	3028	0.63	210	36	48	6	6	450
21B	WCBD 1736622.5	173	66	22.5	1491	3028	0.63	210	36	48	6	6	450

1. GREATER EXHAUST AND/OR LESSER SUPPLY AIR FLOW RATES MAY BE REQUIRED FOR COMPLETE VAPOR AND SMOKE REMOVAL IN SPECIFIC INSTALLATION(S).
2. THE EXHAUST FAN MUST BE OPERATED WHENEVER THE COOKING EQUIPMENT IS TURNED ON. (NFPA SECTION 11.1.1)

HOOD CANOPY MATERIAL: ALL 304 SERIES STAINLESS STEEL

HOOD LEGEND

① ALL WELDED ENCLOSURE
② 16 GA. SIDES, REMAINDER OF HOOD TO BE NO LESS THAN 18 GA.
③ PITCHED GREASE DRIP TRAY
④ ENCLOSED METAL CONTAINER
⑥ ENCLOSURE PANEL
⑦ UTILITY CABINET (REQUIRES 36" OF OPEN SPACE IN FRONT OF THE DOOR)
⑧ 12" HOOD OVERHANG IS RECOMMENDED FOR ALL HEAVY DUTY COOKING APPLIANCES
⑭ SEE ELECTRICAL SCHEDULE - CONSULT FACTORY FOR ALTERNATE INPUT POWER LOCATION(S)

ELECTRICAL SCHEDULE

SEE DEMANDAIRE DRAWINGS

CIRCUIT	DESCRIPTION	VOLTS/PHASE	AMPS	FEED FROM

CB: CIRCUIT BREAKER BY ELECTRICAL CONTRACTOR

NOTE:
IF AN ELECTRICAL CONTROL PANEL FOR THE HOODS IS INCLUDED, THE ABOVE SCHEDULE IS NOT VALID. REFER TO DEMANDAIRE DRAWINGS.

ELECTRICAL LEGEND

———	STREIVOR FACTORY WIRING
– – – –	FIELD WIRING BY OTHERS
LJ	HOOD CANOPY LIGHT(S) JUNCTION BOX
TJ	TEMPERATURE MONITOR(S) JUNCTION BOX

NOTE: FACTORY INSTALLATION OF JUNCTION BOXES MAY DIFFER FROM LOCATION ON DRAWINGS

(E1) HOOD CANOPY LIGHT FIXTURE WIRING DETAIL

ELECTRICAL WIRING NOTES:
1. QUANTITY OF LIGHT(S) WILL BE DETERMINED BY THE LENGTH & QUANTITY OF HOODS
2. SHORT CIRCUIT PROTECTION MUST BE PROVIDED BY CONTRACTOR PERFORMING INSTALLATION - (1440 W MAXIMUM PER LIGHT(S) CIRCUIT)
3. LIGHTS CONTROLLED VIA HMI TOUCH SCREEN OR TOGGLE SWITCH - REFER TO DEMANDAIRE DRAWINGS FOR MORE INFORMATION

(E3) INTERNAL HOOD FAN (IHF) WIRING DETAIL

NOT INCLUDED

ELECTRICAL WIRING NOTES:
1. QUANTITY OF INTERNAL HOOD FANS WILL BE DETERMINED BY THE LENGTH & QUANTITY OF HOODS
2. DEMANDAIRE CONTROL PANEL TO ELECTRICALLY INTERLOCK ASSOCIATED [illegible] UP AIR [illegible] AND INTERNAL HOOD FAN(S) (IHF)
3. MAXIMUM OF TWO INTERNAL HOOD FANS PER HOOD
4. SHORT CIRCUIT PROTECTION MUST BE PROVIDED BY CONTRACTOR PERFORMING INSTALLATION
5. REFER TO DEMANDAIRE DRAWINGS FOR MORE INFORMATION
6. DEMANDAIRE CONTROL PANEL CONTROLS INTERNAL HOOD FAN TO COMPLY WITH NFPA SECTION 8.3.2

NFPA 96 SECTION 8.3.2:
WHEN ITS FIRE-EXTINGUISHING SYSTEM DISCHARGES, MAKEUP AIR SUPPLIED INTERNALLY TO A HOOD SHALL BE SHUT OFF

(E2) RESISTANCE TEMP. DETECTOR (RTD) WIRING DETAIL

ELECTRICAL WIRING NOTES
1. WHEN THE TEMPERATURE DETECTED BY THE RTD EXCEEDS ONE OF ITS SET POINTS, THE FAN SPEED CONTROL SIGNAL PROVIDED BY THE DEMANDAIRE CONTROL PANEL WILL VARY ACCORDINGLY
2. EACH RTD SET POINT IS ADJUSTABLE VIA HMI TOUCH SCREEN SETTINGS
3. RTD COMMUNICATES VIA 4-20 MA CONTROL SIGNAL
4. ALL WIRING BETWEEN RTD AND DEMANDAIRE CONTROL PANEL TO BE UL-LISTED 22 AWG THREE STRAND SHIELDED COMMUNICATION CABLE
5. SHORT CIRCUIT PROTECTION MUST BE PROVIDED BY CONTRACTOR PERFORMING INSTALLATION
6. REFER TO DEMANDAIRE DRAWINGS FOR MORE INFORMATION

NFPA 96 SECTION 8.2.3.3:
THE EXHAUST FAN SHALL BE PROVIDED WITH A MEANS SO THAT THE FAN IS ACTIVATED WHEN ANY APPLIANCE UNDER THE HOOD IN TURNED ON

HOOD #21A
PLAN VIEW

HOOD #21A
PLAN VIEW

HOOD #21B
SECTION VIEW

HOOD #21A
SECTION VIEW

HOOD #21A
ELEVATION VIEW

HOOD #21B
ELEVATION VIEW

GENERAL NOTES:

NOTES TO ARCHITECT AND/OR CONTRACTOR: STREIVOR, INC. (STREIVOR AIR SYSTEMS, STREIVOR STAINLESS) IS A SPECIALIST IN THE LAYOUT AND DESIGN OF KITCHEN VENTILATION SYSTEMS, AND IN NO WAY PURPORTS TO BE ARCHITECTS OR ENGINEERS.

THIS PLAN IS SUBMITTED FOR THE CONVENIENCE OF THE ARCHITECT AND/OR CONTRACTOR AND IS DONE FROM AVAILABLE ARCHITECTURAL INFORMATION. ALL MEASUREMENTS ARE SUBJECT TO PHYSICAL VERIFICATION AND ANY DEVIATIONS OR DISCREPANCIES SHALL BE DIRECTED TO THE ATTENTION OF STREIVOR, INC. IN WRITING.

STREIVOR, INC. ACCEPTS NO RESPONSIBILITY FOR WORK DONE BY SAID ARCHITECT OR GENERAL CONTRACTOR OR THEIR REPRESENTATIVES OR SUBCONTRACTORS, AND WILL NOT STAND ANY EXPENSE FOR CHANGES MADE NECESSARY DUE TO LOCAL BUILDING CODES, ORDINANCES, STRUCTURAL CONDITIONS, OR BY ANY SUBSTITUTIONS OR CHANGES IN EQUIPMENT SHOWN ON THIS PLAN.

ANY ERRORS, AMBIGUITIES OR OMISSIONS IN THIS PLAN OR SPECIFICATIONS SHALL BE REPORTED TO STREIVOR, INC. FOR CORRECTIONS BEFORE ANY OF THE WORK IS STARTED. UNLESS EXPRESSLY STIPULATED, NO ADDITIONAL ALLOWANCE WILL BE MADE IN FAVOR OF THE OWNER OR CONTRACTOR; BY VIRTUE OF ERROR, AMBIGUITY OR OMISSION WHICH SHOULD HAVE BEEN DISCOVERED DURING THE PREPARATION OF BID ESTIMATES, AND DIRECTED TO THE ATTENTION OF STREIVOR, INC. IN A TIMELY MANNER.

PRE - INSTALLATION

OBTAIN, READ AND UNDERSTAND STREIVOR'S HOOD INSTALLATION, OPERATION AND MAINTENANCE MANUAL PRIOR TO INSTALLATION, STARTUP OR BALANCING.

INSTALLATION

ALL INSTALLATION, STARTUP AND BALANCING MUST BE PERFORMED BY QUALIFIED PERSONS AND IN ACCORDANCE WITH ALL APPLICABLE PREVAILING CODES AND STANDARDS.

STANDARD NFPA 96 HOOD CLEARANCES
0" TO NON-COMBUSTIBLE MATERIALS
3" TO LIMITED-COMBUSTIBLE MATERIALS
18" TO COMBUSTIBLE MATERIAL

OVERHEAD CLEARANCES
10" CLEARANCE IS REQUIRED ABOVE THE HOOD

REDUCED CLEARANCES
REDUCED CLEARANCES MAY BE AVAILIABLE. CONSULT FACTORY FOR REDUCED CLEARANCE OPTIONS.

TEST AND BALANCE
THE SPECIFIED EXHAUST CFMS LISTED ON THIS DRAWING MUST BE MET DURING TEST AND BALANCE OF THE HOOD SYSTEM(S).
VARIANCE EXHAUST = -0% +10%
VARIANCE SUPPLY= -10% +0%

STREIVOR™ AIR SYSTEMS
"STRIVING FOR EXCELLENCE"
2150 KITTY HAWK ROAD, LIVERMORE, CA 94551
PHONE: (925) 960-9090 FAX:(925) 960-9055
WWW.STREIVOR.COM

PROJECT:
LUTHER BURBANK HS

---,-- -----

AMD FOODSERVICE DESIGN

HOOD #:	21A & 21B
DATE:	02/07/24
DRAWN BY:	TN
CHECKED BY:	KCS
CONSULTANT:	AMD FOODSERVICE DESIGN
SCALE: (UNLESS OTHERWISE NOTED)	1/2" = 1'-0"
IF BAR DOES NOT MEASURE 1" THIS DRAWING IS NOT PLOTTED TO SCALE	

△	DESCRIPTION	DATE	INT
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△	---	--/--/--	---
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△	---	--/--/--	---
△	---	--/--/--	---

DRAWING:
H-01
SHEET 01 OF 01

AGENCY APPROVAL:

REVIEWING AGENCIES STAMP HERE

Sacramento City
UNIFIED SCHOOL DISTRICT

HMC Architects

3186-071-000

2101 CAPITOL AVENUE, SUITE 100,
SACRAMENTO, CA, 95816
916 368 7990 / www.hmcarchitects.com

MICHAEL CHESTER RATH
C-25193
REN. 07/31/25

ISSUE

△	DESCRIPTION	DATE

AMD FOODSERVICE DESIGN INC.

KEYNOTES

NOTES

FACILITY:
LUTHER BURBANK HIGH SCHOOL
3500 FLORIN RD
SACRAMENTO, CA 95823

PROJECT:
LUTHER BURBANK HIGH SCHOOL CAFETERIA MODERNIZATION

SHEET NAME:
FOODSERVICE EQUIPMENT
EXHAUST HOOD DETAILS

DSA SUBMITTAL

DATE: **2024.09.13**
CLIENT PROJ NO: **3186071000**

SHEET:
FS5.1

PLEASE RECYCLE

AGENCY APPROVAL:

REVIEWING AGENCIES STAMP HERE

GENERAL NOTES

NOTES TO ARCHITECT AND/OR CONTRACTOR: STREIVOR, INC. (STREIVOR AIR SYSTEMS, STREIVOR STAINLESS) IS A SPECIALIST IN THE LAYOUT AND DESIGN OF KITCHEN VENTILATION SYSTEMS, AND IN NO WAY PURPORTS TO BE ARCHITECTS OR ENGINEERS.

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PRE-INSTALLATION

OBTAIN, READ AND UNDERSTAND STREIVOR'S DEMANDAIRE INSTALLATION, OPERATION AND MAINTENANCE MANUAL PRIOR TO INSTALLATION, OR STARTUP OR BALANCING.

INSTALLATION

ALL INSTALLATION AND STARTUP MUST BE PERFORMED BY QUALIFIED PERSONS AND IN ACCORDANCE WITH ALL APPLICABLE PREVAILING CODES AND STANDARDS

WIRING NOTES

1. FIELD WIRING TERMINALS USE COPPER WIRE ONLY
2. WIRE MUST BE RATED UP TO 600V
3. WIRE TEMPERATURE RATING 60° C MIN
4. LARGE TERMINAL BLOCK TIGHTENING TORQUE 1.5 - 1.8 (NM)
5. SMALL TERMINAL BLOCK TIGHTENING TORQUE 0.6 - 0.8 (NM)
6. SHIELDS OF SHIELDED CABLES MUST BE GROUNDED ON ONE SIDE

COMMISSIONING NOTES

IF COMMISSIONING IS INCLUDED, STREIVOR'S DEMANDAIRE PRE-COMMISSIONING CHECKLIST MUST BE SIGNED AND RETURNED BY THE CUSTOMER A MINIMUM OF **15 CALENDAR DAYS** PRIOR TO THE REQUESTED COMMISSIONING DATE TO AVOID INCURRING ADDITIONAL TRAVEL AND/OR EXPEDITING COSTS

HOOD SCHEDULE / ELECTRICAL SCHEDULE

HOOD	GROUP	SUPPLY FAN	EXHAUST FAN	FSS#	CIRCUIT DESCRIPTION	HP	V/Ø	AMPS	FEED
21A	---	SF-X	EF-X	1	CONTROL PANEL	---	120/1	20	CB
21B	---	SF-X	EF-X	1	---	---	---	---	---
---	---	---	---	---	---	---	---	---	---
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REFER TO HOOD DRAWINGS FOR HOOD DETAILS

CB: CIRCUIT BREAKER BY ELECTRICAL CONTRACTOR

ELECTRICAL ROUGH-IN SCHEDULE

ITEM	DETAIL	ROUGH-IN REQUIREMENTS	ELECTRICAL CONDUIT
DEMANDAIRE CONTROL PANEL	DCP	14 1/4" X 16 1/4" I.D. FRAMED OPENING	120 VAC, 24 VDC, 4-20 mA
AMBIENT TEMPERATURE MONITOR	ARTD	2" X 4" J-BOX	4-20 mA
---	---	---	---
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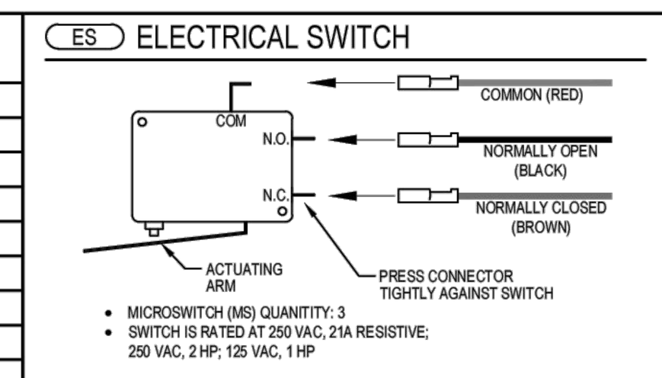
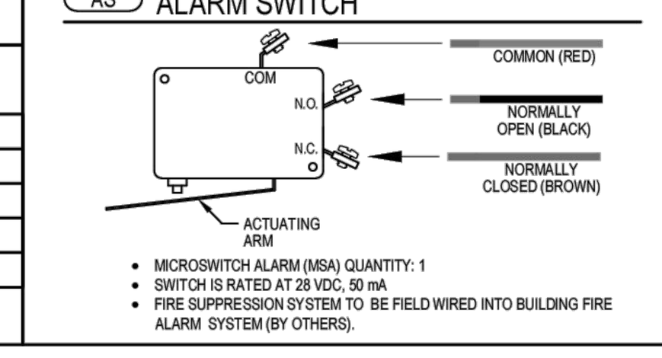
ELECTRICAL CONTRACTOR TO VERIFY ROUGH-IN LOCATION AND ELECTRICAL REQUIREMENTS

UL LISTED STD 508A

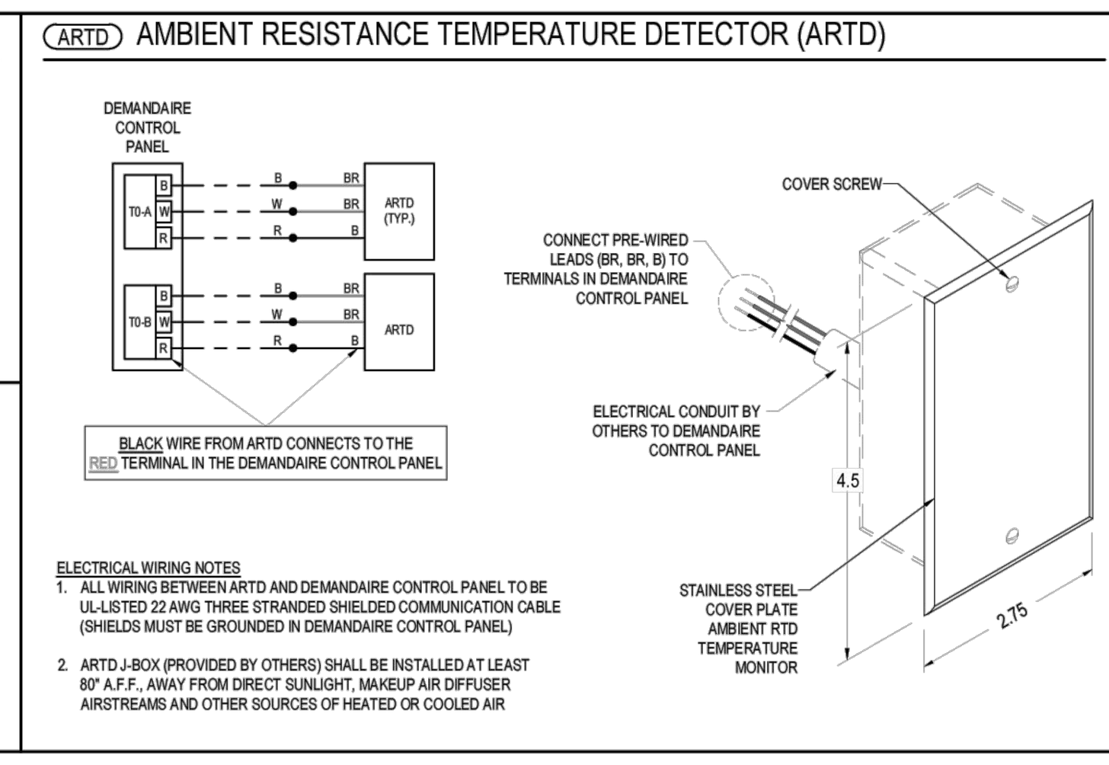
ES ELECTRICAL SWITCH



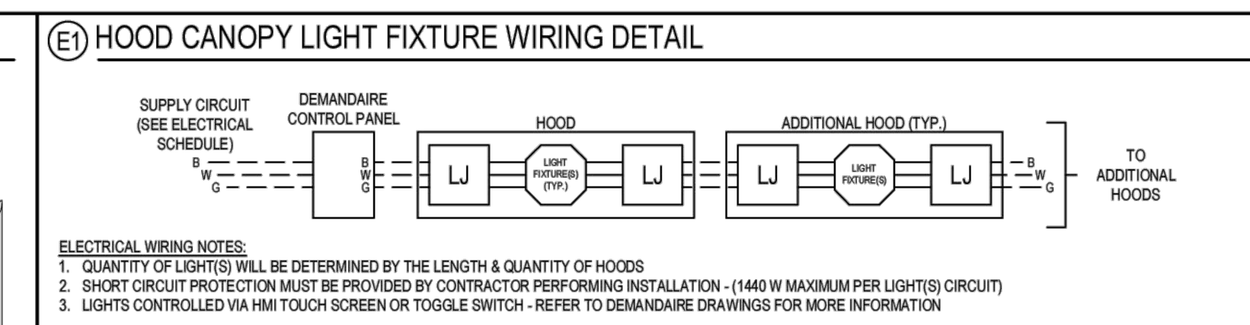
AS ALARM SWITCH



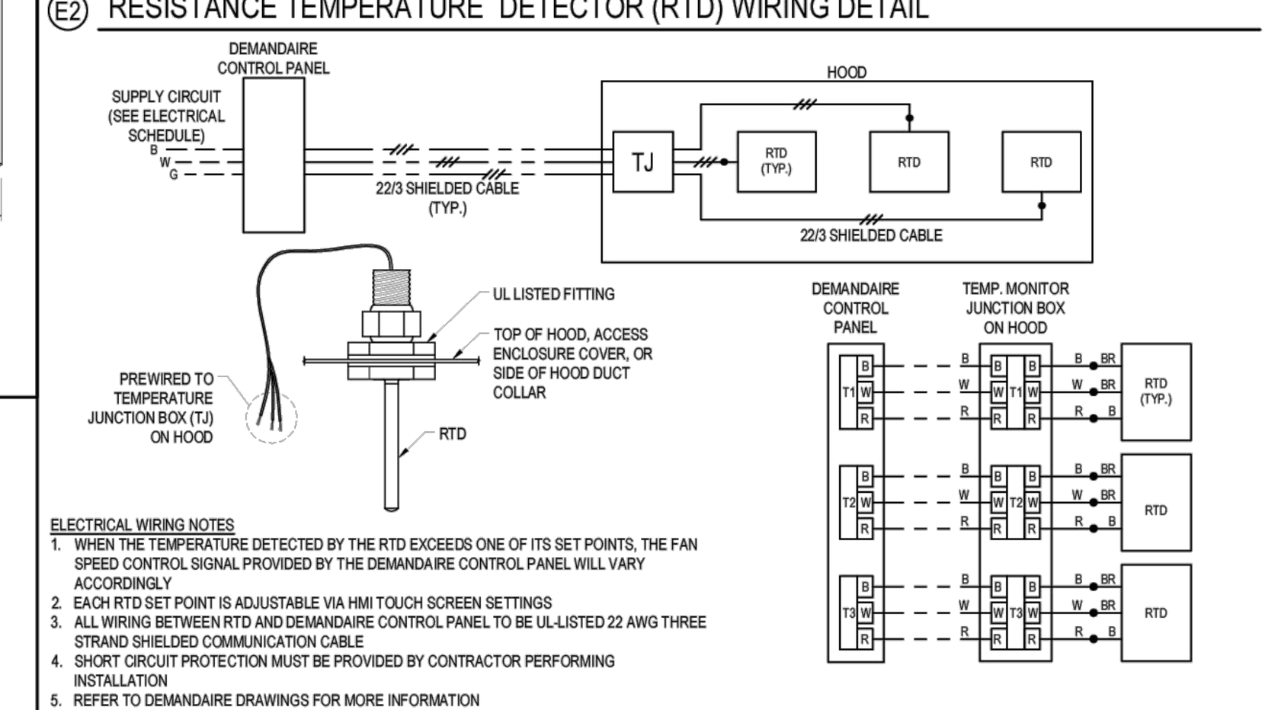
ARTD AMBIENT RESISTANCE TEMPERATURE DETECTOR (ARTD)



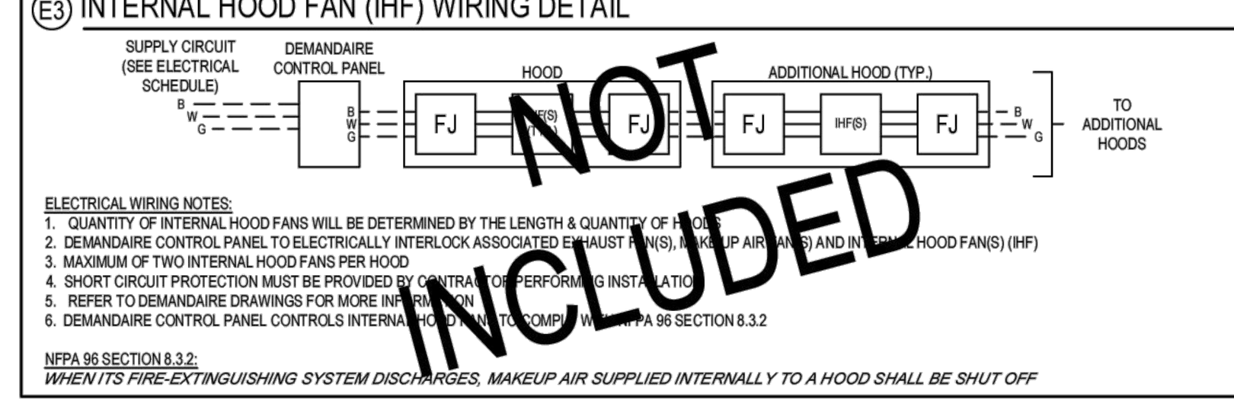
E1 HOOD CANOPY LIGHT FIXTURE WIRING DETAIL



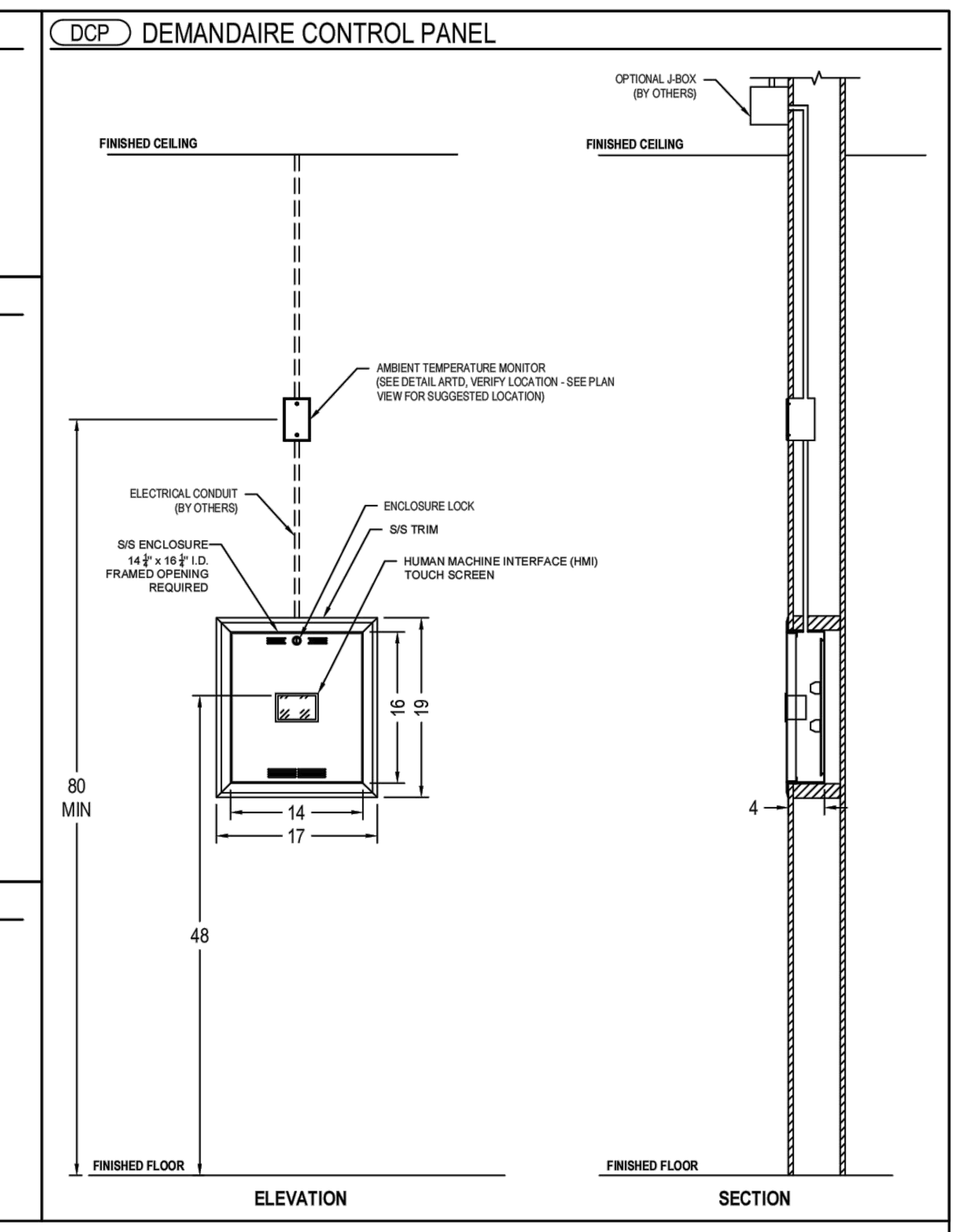
E2 RESISTANCE TEMPERATURE DETECTOR (RTD) WIRING DETAIL



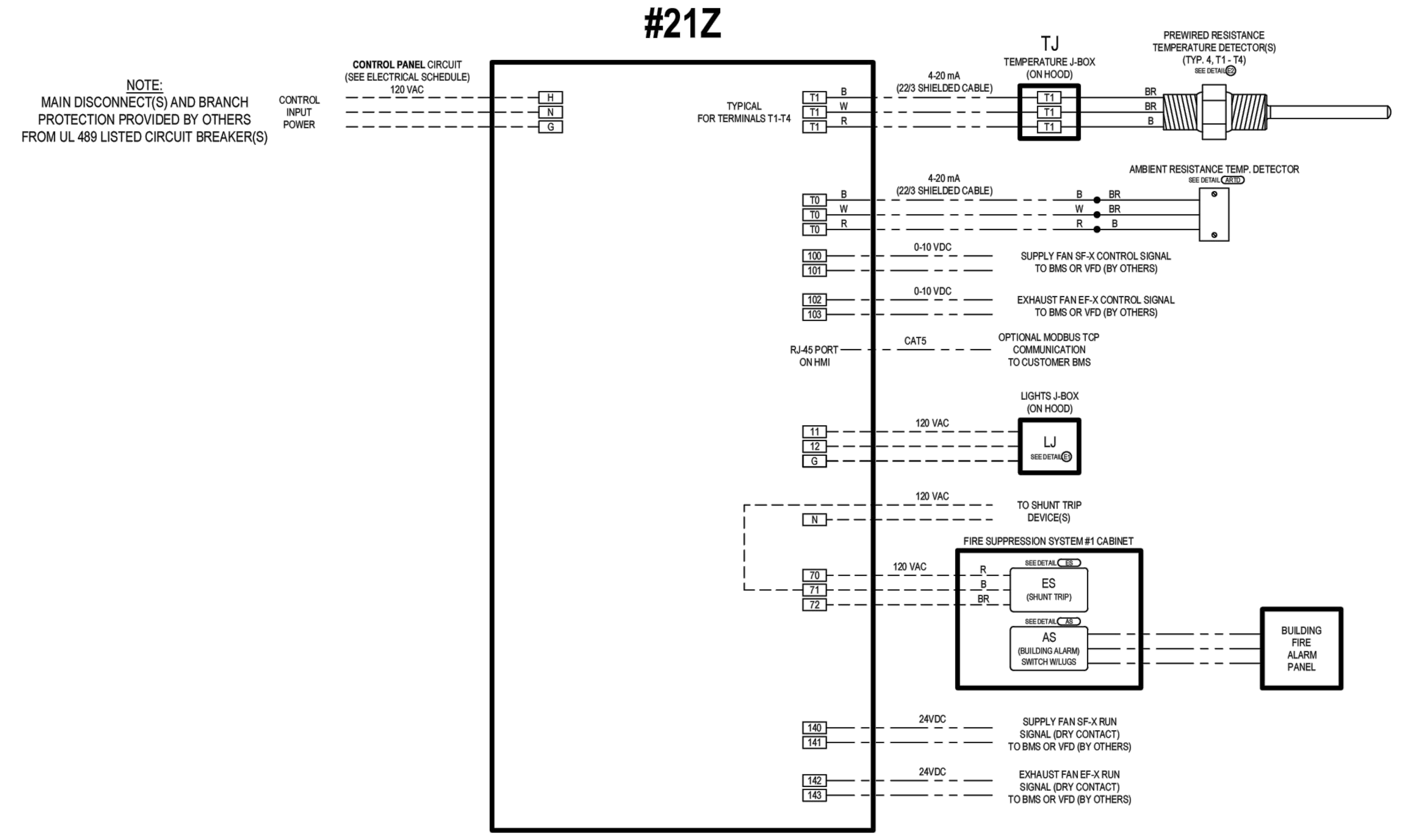
E3 INTERNAL HOOD FAN (IHF) WIRING DETAIL



DCP DEMANDAIRE CONTROL PANEL



DEMANDAIRE SILVER CONTROL PANEL WIRING DIAGRAM #21Z



NOTE:
DEMANDAIRE CONTROL PANEL ENCLOSURES REQUIRE 36 INCHES MININUM OF CLEAR SPACE IN FRONT OF THE DOOR

VARIABLE FREQUENCY DRIVE(S)

DCKV FAN MOTORS TO BE ECM OR RATED FOR USE WITH VFD.
VFD(S) TO BE SIZED/LOCATED PER MEP DRAWINGS.
VFD(S) NOT PROVIDED BY STREIVOR.
SEE DEMANDAIRE WIRING DIAGRAM FOR TERMINAL LABELS AND QUANTITY OF CONTROL SIGNALS/CONTACTS.

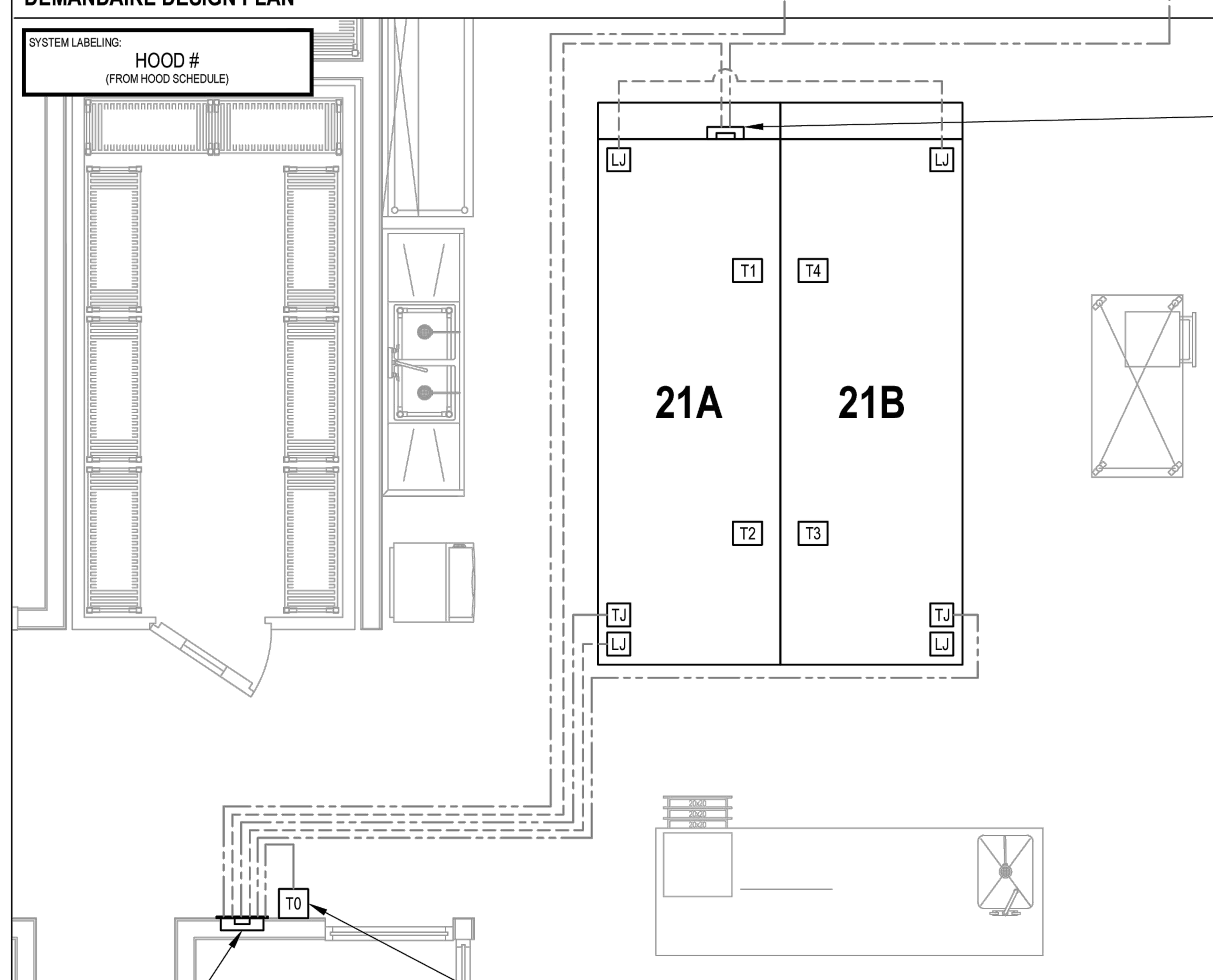
VFD/BMS

BUILDING FIRE ALARM

NFPA 96 - 10.6.2: WHERE A FIRE ALARM SIGNALING SYSTEM IS SERVING THE OCCUPANCY WHERE THE EXTINGUISHING SYSTEM IS LOCATED, THE ACTIVATION OF THE AUTOMATIC FIRE-EXTINGUISHING SYSTEM SHALL ACTIVATE THE FIRE ALARM SIGNALING SYSTEM. SEE DETAIL (AS)

BUILDING ALARM

DEMANDAIRE DESIGN PLAN



FIRE SUPPRESSION SYSTEM (FSS) #1 MICROSWITCHES

LOCATED IN FSS #1 UTILITY CABINET SEE DETAILS (ES) & (AS)

DEMANDAIRE CONTROL PANEL #21Z & HUMAN MACHINE INTERFACE (HMI) TOUCH SCREEN
SEE ELECTRICAL SCHEDULE & DETAIL (DCP)

AMBIENT RESISTANCE TEMPERATURE DETECTOR (ARTD) #T0
SEE DETAILS (DCP) & (ARTD)

LEGEND

- STREIVOR FACTORY WIRING
- HIGH VOLTAGE FIELD WIRING BY OTHERS
- 120/1 VAC FIELD WIRING BY OTHERS
- LOW VOLTAGE FIELD WIRING BY OTHERS
- 120/1 VAC ELECTRICAL CONDUIT (ELECTRICAL CONTRACTOR TO VERIFY QUANTITY AND SIZE)
- LOW VOLTAGE ELECTRICAL CONDUIT (ELECTRICAL CONTRACTOR TO VERIFY QUANTITY AND SIZE)
- LJ HOOD CANOPY LIGHT(S) JUNCTION BOX
- TJ TEMP. MONITOR(S) JUNCTION BOX
- FJ INTERNAL HOOD FAN(S) JUNCTION BOX
- T# TEMPERATURE MONITOR
- VFD VARIABLE FREQUENCY DRIVE
- BMS BUILDING MANAGEMENT SYSTEM

DRAWING APPROVAL

THIS DRAWING MUST BE REVIEWED, SIGNED & RETURNED TO STREIVOR AIR SYSTEMS PRIOR TO THE START OF FABRICATION.

VERIFY THE FOLLOWING:

1. ALL DIMENSIONAL INFORMATION, MOUNTING LOCATIONS & CLEARANCES.
2. FAN HORSEPOWER, VOLTAGE & PHASE (IF VFDS OR MOTOR STARTERS ARE PROVIDED BY STREIVOR)

APPROVED FOR FABRICATION

☐ APPROVED
☐ APPROVED AS NOTED
☐ REVISE & RESUBMIT

APPROVED BY ________ DATE

NOTE TO REVIEWER:
ANY CHANGES IN COOKING EQUIPMENT SUCH AS EQUIPMENT POSITION, TYPE AND/OR INCREASE IN ENERGY OUTPUT MAY AFFECT EXHAUST AIRFLOW. STREIVOR AIR SYSTEMS MUST BE NOTIFIED OF ANY CHANGES THAT OCCUR PRIOR TO FABRICATION, AS RE-ENGINEERING OF THE EXHAUST AIRFLOW MAY BE REQUIRED.

STREIVOR™ AIR SYSTEMS
"STRIVING FOR EXCELLENCE"
2150 KITTY HAWK ROAD, LIVERMORE, CA 94551
PHONE: (925) 960-9090 FAX:(925) 960-9055
WWW.STREIVOR.COM

PROJECT:
LUTHER BURBANK HS

---,-- -----

AMD FOODSERVICE DESIGN

SHORT CIRCUIT CURRENT RATING : 5KA RMS, 120V MAX
VERIFY JOB SITE REQUIREMENTS

SERIAL NO.	DA------
CONTROL PANEL NO.	---
C.P. ENCLOSURE NO.	---
HMI ENCLOSURE NO.	---
ITEM #:	21Z
MODEL:	SILVER
DATE:	2/7/2024
DRAWN BY:	JWS
CHECKED BY:	HLF
CONSULTANT:	AMD FOODSERVICE DESIGN
SCALE:	N.T.S.

△	DESCRIPTION	DATE	INT
△	---	--/--/--	---
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DRAWING:
DA-01
SHEET 01 OF 01

Sacramento City UNIFIED SCHOOL DISTRICT

HMC Architects
3186-071-000
2101 CAPITOL AVENUE, SUITE 100,
SACRAMENTO, CA, 95816
916 368 7990 / www.hmcarchitects.com

LICENSED ARCHITECT MICHAEL CHESTER RATH C-25193 REN. 07/31/25 STATE OF CALIFORNIA

ISSUE

△	DESCRIPTION	DATE

AMD FOODSERVICE DESIGN

KEYNOTES

NOTES

FACILITY:
LUTHER BURBANK HIGH SCHOOL
3500 FLORIN RD
SACRAMENTO, CA 95823

PROJECT:
LUTHER BURBANK HIGH SCHOOL CAFETERIA MODERNIZATION

SHEET NAME:
FOODSERVICE EQUIPMENT EXHAUST HOOD DETAILS

DSA SUBMITTAL

DATE: **2024.09.13** CLIENT PROJ NO: **3186071000**

SHEET:
FS5.2

AGENCY APPROVAL:

REVIEWING AGENCIES STAMP HERE

LISTINGS & STANDARDS

THIS WET CHEMICAL EXTINGUISHING SYSTEM IS ENGINEERED TO PROVIDE FIRE PROTECTION FOR RESTAURANT HOODS, DUCTS AND COOKING APPLIANCES, IS **UL 300** LISTED AND IS TO BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS:

- NFPA 17A 2021 EDITION
- NFPA 10 2018 EDITION
- NFPA 96 2021 EDITION

SECTIONS & CODES

NFPA 10 2018 EDITION

(6.6.2) MAXIMUM TRAVEL DISTANCE SHALL NOT EXCEED 30 FT (9.1 M) FROM THE HAZARD TO THE EXTINGUISHER(S)

NFPA 17A 2021 EDITION

(5.2.1.10.1) EACH MANUAL ACTUATION DEVICE SHALL BE INSTALLED NO MORE THAN 48 IN. (1200 MM) AND NO LESS THAN 42 IN. (1067 MM) ABOVE THE FLOOR.

NFPA 96 2021 EDITION

(8.2.3.1) A HOOD EXHAUST FAN(S) SHALL CONTINUE TO OPERATE AFTER THE EXTINGUISHING SYSTEM HAS BEEN ACTIVATED UNLESS FAN SHUTDOWN IS REQUIRED BY A LISTED COMPONENT OF THE VENTILATION SYSTEM OR BY THE DESIGN OF THE EXTINGUISHING SYSTEM.

(8.2.3.2) THE HOOD EXHAUST FAN SHALL START UPON ACTIVATION OF THE EXTINGUISHING SYSTEM IF THE EXHAUST FAN AND ALL COOKING EQUIPMENT SERVED BY THE FAN HAVE BEEN SHUT DOWN, UNLESS FAN SHUTDOWN IS REQUIRED BY A LISTED COMPONENT OF THE VENTILATION SYSTEM OR BY THE LISTING OF THE EXTINGUISHING SYSTEM.

(8.3.2) WHEN THE FIRE-EXTINGUISHING SYSTEM ACTIVATES, MAKEUP AIR SUPPLIED INTERNALLY TO A HOOD SHALL BE SHUT OFF.

(10.4.1) UPON ACTIVATION OF ANY FIRE EXTINGUISHING SYSTEM FOR A COOKING OPERATION, ALL SOURCES OF FUEL AND ELECTRICAL POWER THAT PRODUCE HEAT TO ALL EQUIPMENT REQUIRING PROTECTION BY THAT SYSTEM SHALL AUTOMATICALLY SHUT OFF.

(10.4.3) GAS APPLIANCE NOT REQUIRING PROTECTION BUT LOCATED UNDER VENTILATING EQUIPMENT WHERE PROTECTED APPLIANCES ARE LOCATED SHALL BE AUTOMATICALLY SHUT OFF UPON ACTIVATION OF THE EXTINGUISHING SYSTEM

(10.4.4) SHUTOFF DEVICE SHALL REQUIRE MANUAL RESETTING PRIOR TO FUEL / POWER BEING RESTORED

(10.5.1.1) AT LEAST ONE MANUAL ACTUATION DEVICE SHALL BE LOCATED IN A MEANS OF EGRESS OR AT A LOCATION ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.

(10.5.1.2) THE MANUAL ACTUATION DEVICE SHALL CLEARLY IDENTIFY THE HAZARD PROTECTED.

CMC 2022 EDITION

(513.5) ALL SYSTEMS SHALL HAVE BOTH AUTOMATIC AND MANUAL METHODS OF ACTUATION. AT LEAST ONE MANUAL ACTUATION DEVICE SHALL BE LOCATED IN A MEANS OF EGRESS OR AT A LOCATION ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.

INSTALLATION REQUIREMENTS

1. ALL PIPE SHALL BE SCHEDULE 40 BLACK IRON. CHROME PLATED/SLEEVED WHERE EXPOSED.
2. ALL CYLINDER SYSTEMS SHALL HAVE 3/8" SUPPLY LINES AND 3/8" BRANCH LINES.
3. ALL WIRE ROPE SHALL BE 1/16" STAINLESS STEEL AND RUN THROUGH 1/2" EMT CONDUIT.
4. U.L. LISTED CORNER PULLEYS REQUIRED WHENEVER THE STAINLESS STEEL CABLE DIRECTION CHANGES.
5. ALL EQUIPMENT WITH FIRE PROTECTION MUST BE SECURED TO FLOOR. (NOT BY STREIVOR)
6. SWIVEL ADAPTERS MAY BE ADDED TO NOZZLES FOR UP TO 30° ROTATION.

SYSTEM #1

PAGE NUMBERS REFERENCED FROM THE ANSUL R-102 FIRE SUPPRESSION SYSTEM TECHNICAL MANUAL

CABLE/LINE LIMITATIONS - AUTOMAN A

		LENGTH	PULLEYS	BRACKETS
FUSIBLE LINK (pg. 4-71)	MAXIMUM	150.00 FT	20	15
	ALLOTTED	33.00 FT	7	5 *
PULL STATION(S) (pg. 4-73)	MAXIMUM	150.00 FT	20	N/A
	ALLOTTED	29.00 FT	2	N/A
GAS VALVE(S) (pg. 4-74)	MAXIMUM	150.00 FT	20	N/A
	ALLOTTED	--.-- FT	--	N/A
GAS CARTRIDGE(S) (pg. 4-61)	MODEL	DOUBLE TANK	--	--
	PART NUMBER	423493	--	--

CYLINDER #1

ZONE COVERAGE (DUCT / PLENUM / APPLIANCE)	COVERAGE DESCRIPTION	NOZZLE	QTY.	FLOW POINTS	PAGE
DUCT	DUCT	2W	2	4	4-1
PLENUM	PLENUM	1N	3	3	4-5
			TOTAL FLOW POINTS	7	

PIPING LIMITATIONS

CYLINDER	FLOW POINTS		SUPPLY	DUCT	PLENUM	EQUIP.	FIRST TO LAST
3 GAL	MAXIMUM	11	40 FT	8 FT	4 FT	12 FT	24 FT
	ALLOTTED	7	15 FT	6 FT	3 FT	0 FT	13 FT

CYLINDER #2

ZONE COVERAGE (DUCT / PLENUM / APPLIANCE)	COVERAGE DESCRIPTION	NOZZLE	QTY.	FLOW POINTS	PAGE
DUCT	DUCT	2W	2	4	4-1
PLENUM	PLENUM	1N	1	1	4-5
APPLIANCE	OVERLAPPING END OF ZONE	245	3	6	4-57
			TOTAL FLOW POINTS	11	

PIPING LIMITATIONS

CYLINDER	FLOW POINTS		SUPPLY	DUCT	PLENUM	EQUIP.	FIRST TO LAST
3 GAL	MAXIMUM	11	40 FT	8 FT	4 FT	12 FT	24 FT
	ALLOTTED	11	22 FT	4 FT	1 FT	3 FT	20 FT

LEGEND

- PATH OF EGRESS
- DETECTION LINE ROUTE
- PIPING
- FIELD PIPING
- K-CLASS FIRE EXTINGUISHER (NOT SUPPLIED BY STREIVOR)
- DUCT NOZZLE MAX PERIMETER
- PULL STATION
- PLENUM NOZZLE MAX PLENUM LENGTH
- AUTOMAN
- APPLIANCE NOZZLE AND HEIGHT
- DETECTOR BRACKET (FRONT VIEW)
- DETECTOR BRACKET (PLAN VIEW)
- DOWNWARD FACING NOZZLE
- NOZZLE COVERAGE
- ANGLED NOZZLE AND TARGET LOCATION

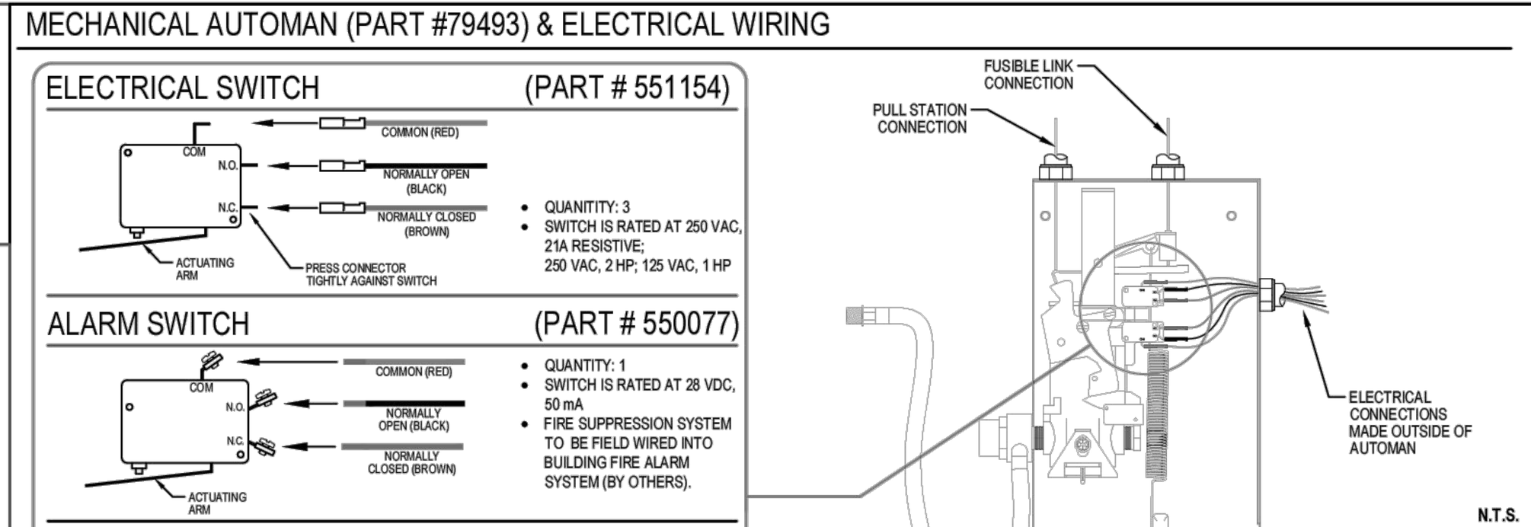
MECHANICAL AUTOMAN (PART #79493) & ELECTRICAL WIRING

ELECTRICAL SWITCH (PART # 551154)

- QUANTITY: 3
- SWITCH IS RATED AT 250 VAC, 21A RESISTIVE; 250 VAC, 2 HP; 125 VAC, 1 HP

ALARM SWITCH (PART # 550077)

- QUANTITY: 1
- SWITCH IS RATED AT 28 VDC, 50 mA
- FIRE SUPPRESSION SYSTEM TO BE FIELD WIRED INTO BUILDING FIRE ALARM SYSTEM (BY OTHERS).

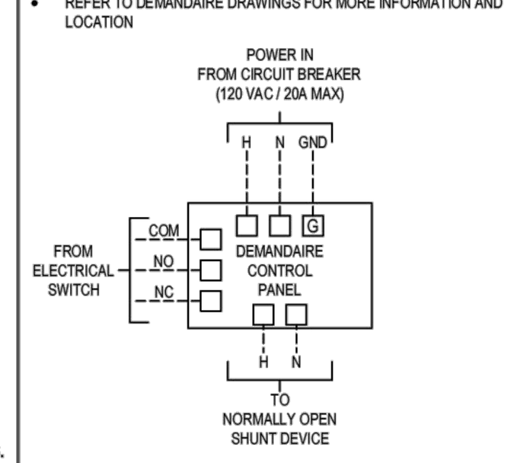


ELECTRICAL SWITCH WIRING

- REFER TO NFPA 96 CODES 8.3.2 & 10.4.1 FOR MORE INFORMATION
- SHUNT DEVICE TO BE NORMALLY OPEN (NOT PROVIDED BY STREIVOR)
- EXCEPT FOR ALARM INITIATING SWITCH, NO ELECTRICAL CONNECTIONS ARE TO BE MADE INSIDE THE CONTROL HEAD ENCLOSURE.

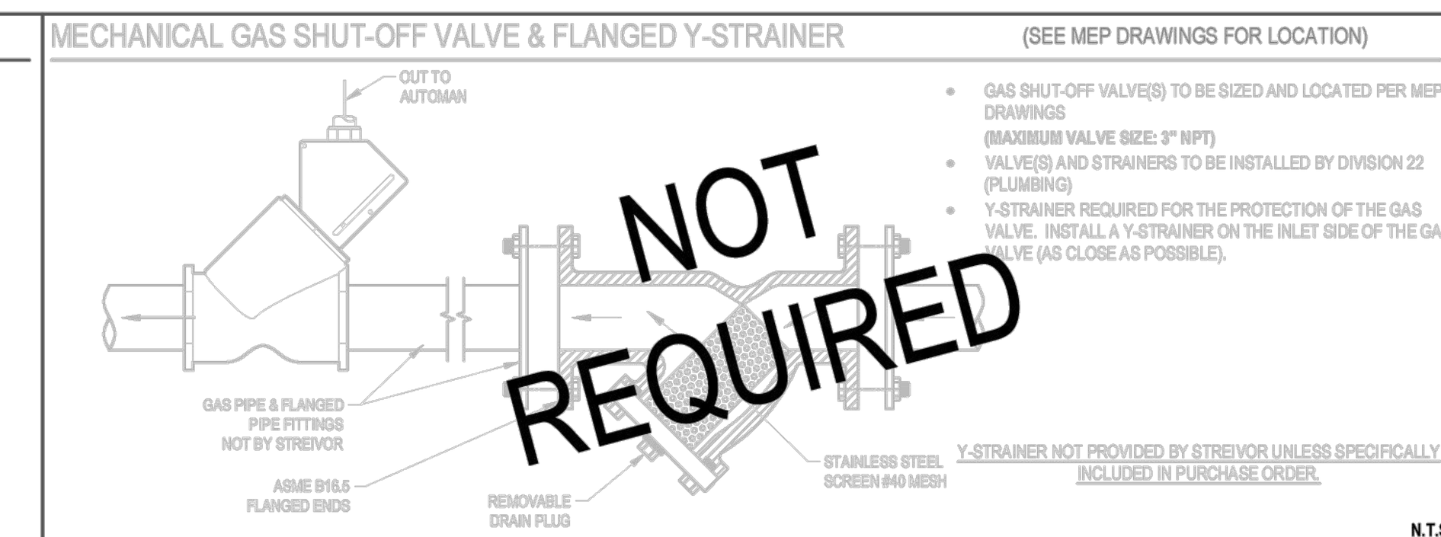
DEMANDAIRE CONTROL PANEL

- REFER TO DEMANDAIRE DRAWINGS FOR MORE INFORMATION AND LOCATION

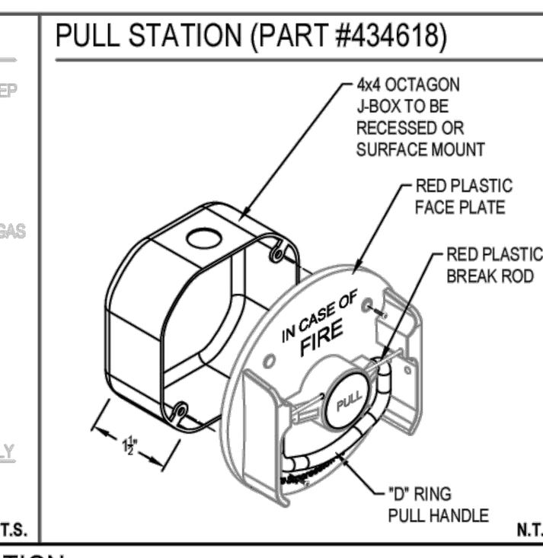


MECHANICAL GAS SHUT-OFF VALVE & FLANGED Y-STRAINER (SEE MEP DRAWINGS FOR LOCATION)

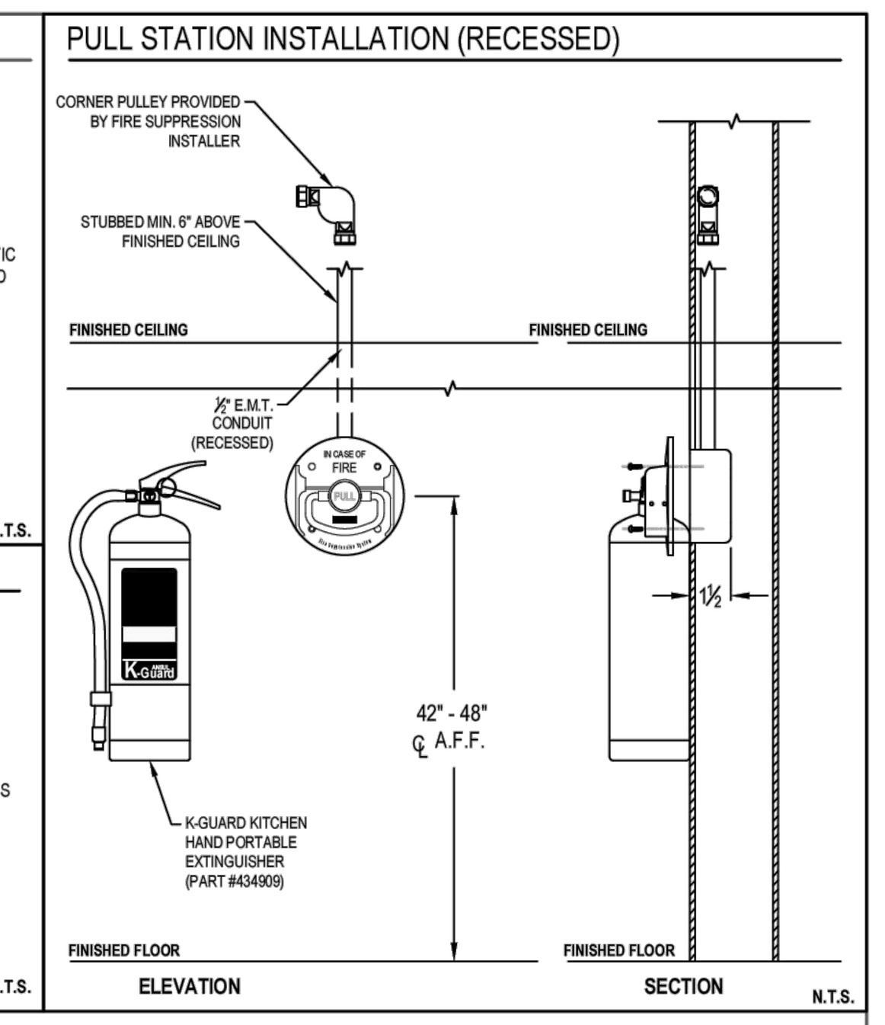
NOT REQUIRED



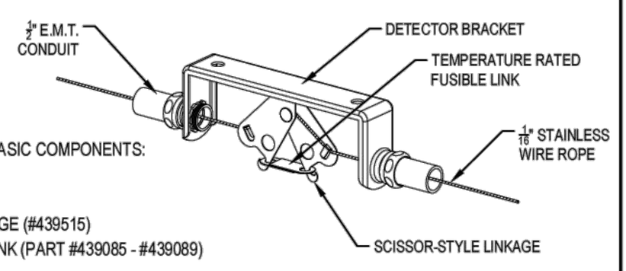
PULL STATION (PART #434618)



PULL STATION INSTALLATION (RECESSED)



DETECTORS (Series #435546 | Terminal #435547)



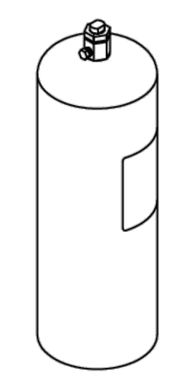
THE DETECTOR CONSISTS OF THREE BASIC COMPONENTS:

- DETECTOR BRACKET (#550676)
- STAINLESS STEEL SCISSOR LINKAGE (#439515)
- TEMPERATURE RATED FUSIBLE LINK (PART #439085 - #439089) NOT PROVIDED BY STREIVOR

THE SCISSOR STYLE DETECTOR ALLOWS THE WIRE ROPE TO BE STRUNG CONTINUOUSLY THROUGH THE DETECTION SYSTEM CONDUIT AND BRACKETS FIRST, THEN THE DETECTOR LINKAGE ASSEMBLIES ARE CLIPPED ON LATER.

*A-PC/SL STYLE FUSIBLE LINK TO BE PROVIDED BY INSTALLER (TEMP RATING TO BE VERIFIED AND DETERMINED IN FIELD)

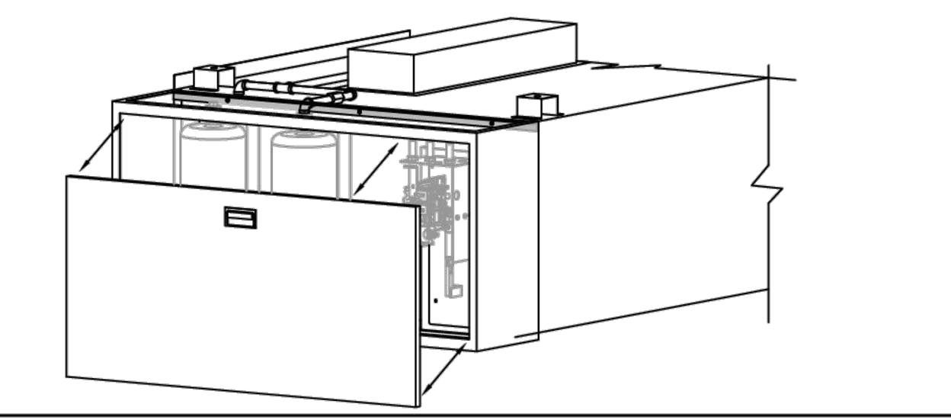
AGENT TANK DETAIL



- 3 GALLON SHIPPING WEIGHT 7 LB (3.2KG) - PART #429862
- 1.5 GALLON SHIPPING WEIGHT 5 LB (2.3KG) - PART #429864

THE STAINLESS STEEL TANK IS SHIPPED UNCHARGED AND MUST BE FILLED WITH ONLY ANSULEX LOW PH LIQUID FIRE SUPPRESSANT DURING INSTALLATION. ANSULEX IS A POTASSIUM-BASED SOLUTION DESIGNED FOR FAST KNOCK-DOWN AND SUPPRESSION OF GREASE-RELATED FIRES.

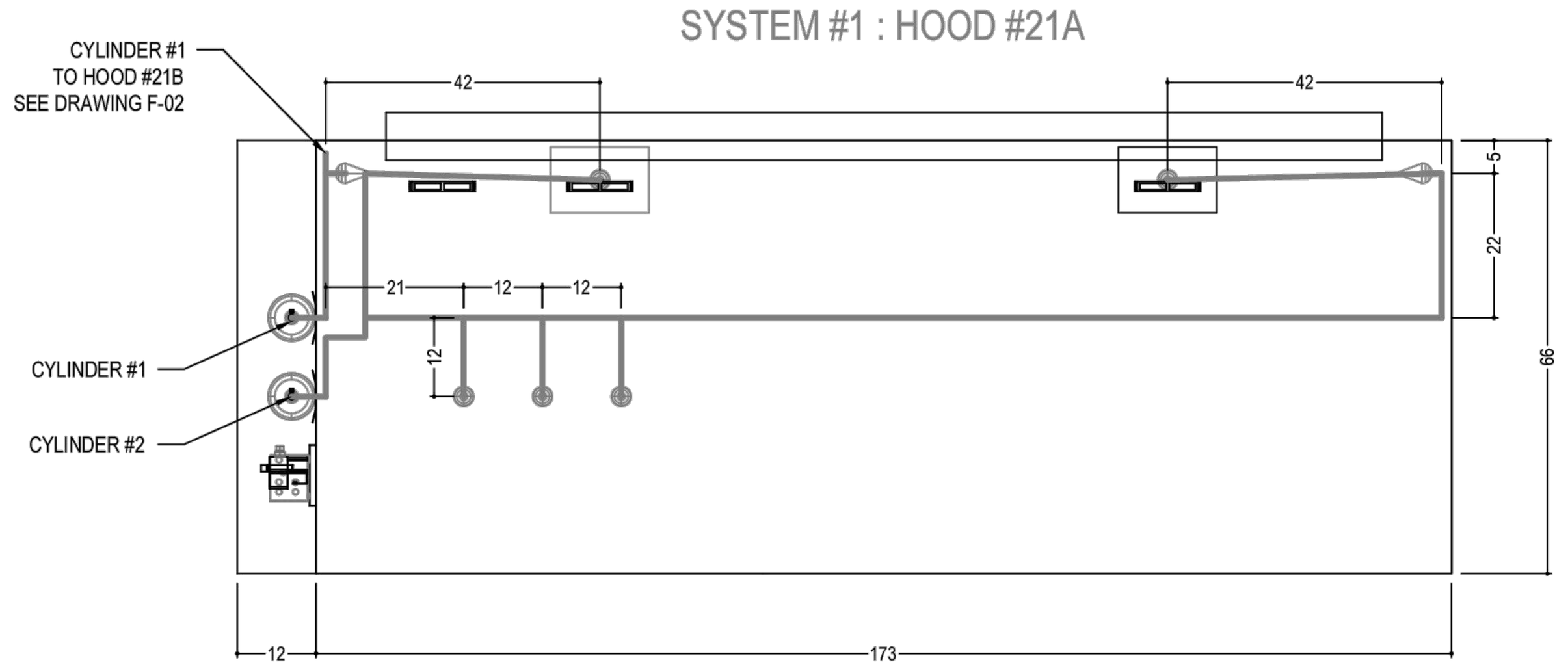
FIRE SUPPRESSION SYSTEM CABINET & REMOTE MOUNTED INSTALLATION

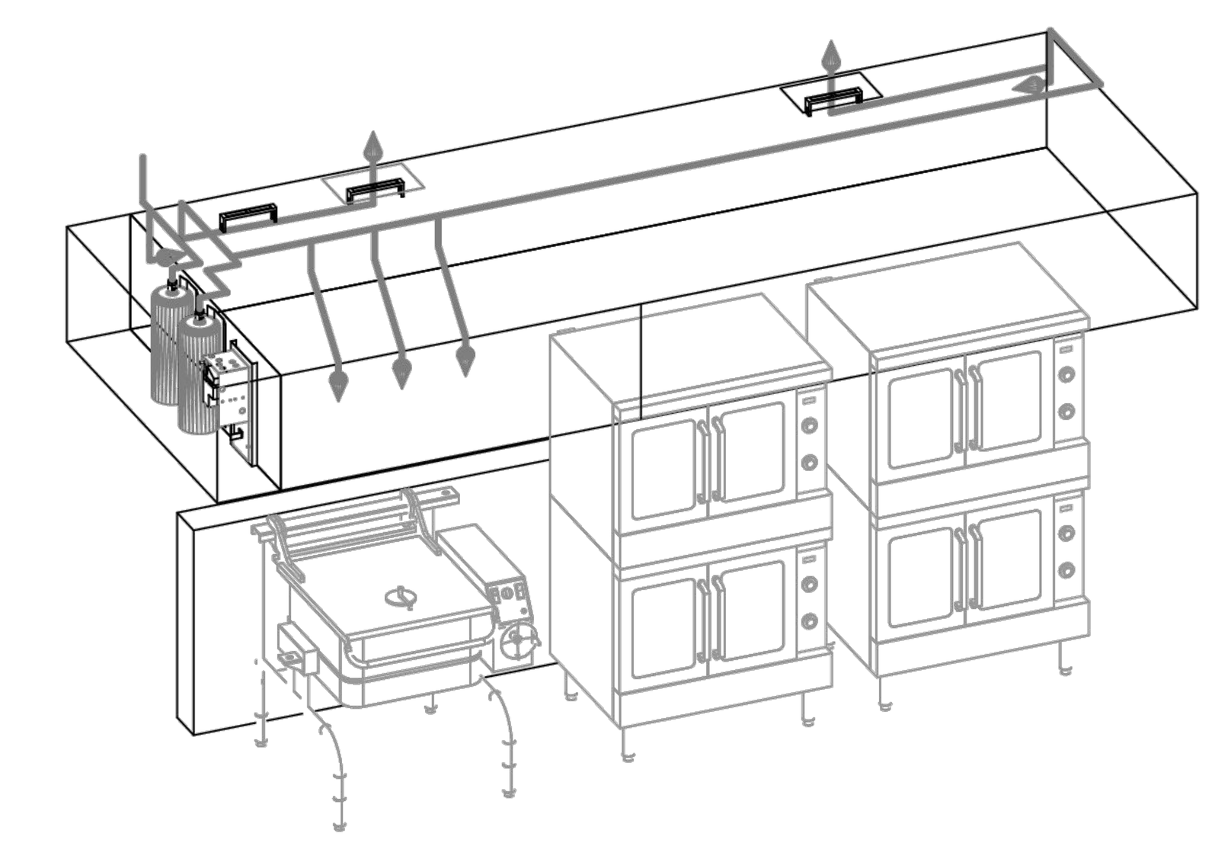


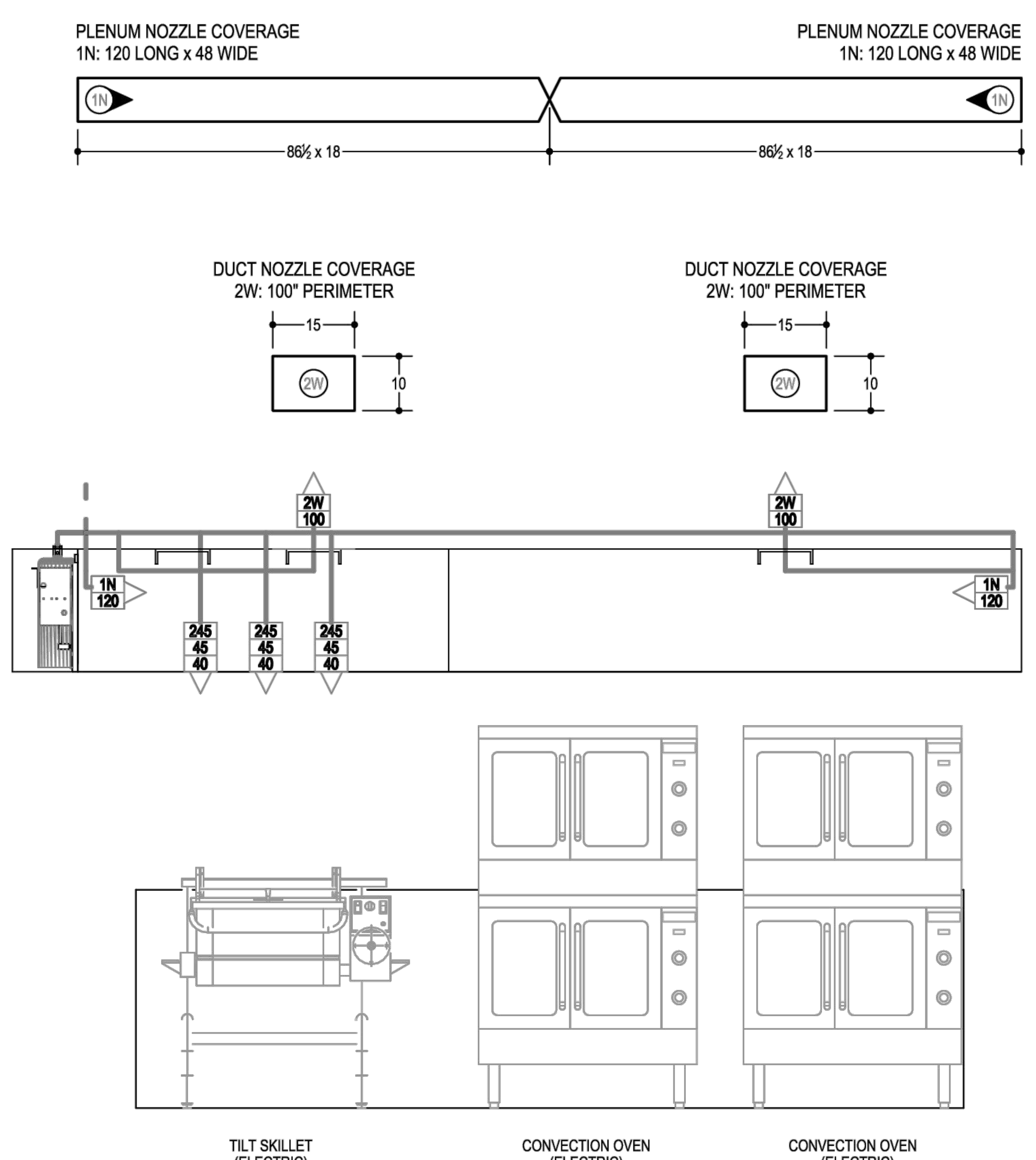
- 36" MINIMUM CLEARANCE REQURIED IN FRONT OF THE REMOVABLE CABINET DOOR.
- SUPPORT BACKING REQUIRED IF CABINET MOUNTS TO WALL
- CABINET AND FIRE SUPPRESSION SYSTEM COMPONENTS APPROXIMATELY 100 LBS/FT. SEE PATH OF EGRESS DRAWING FOR CABINET DIMENSIONS)
- IMAGE MAY NOT REPRESENT EXACT HOOD OPTIONS. SEE HOOD DRAWINGS FOR FULL DETAILS

N.T.S.

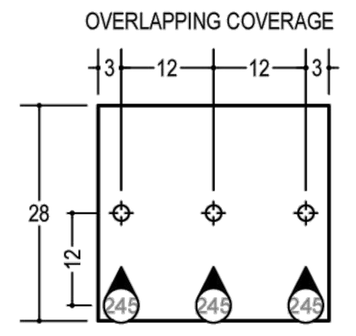
SYSTEM #1 : HOOD #21A





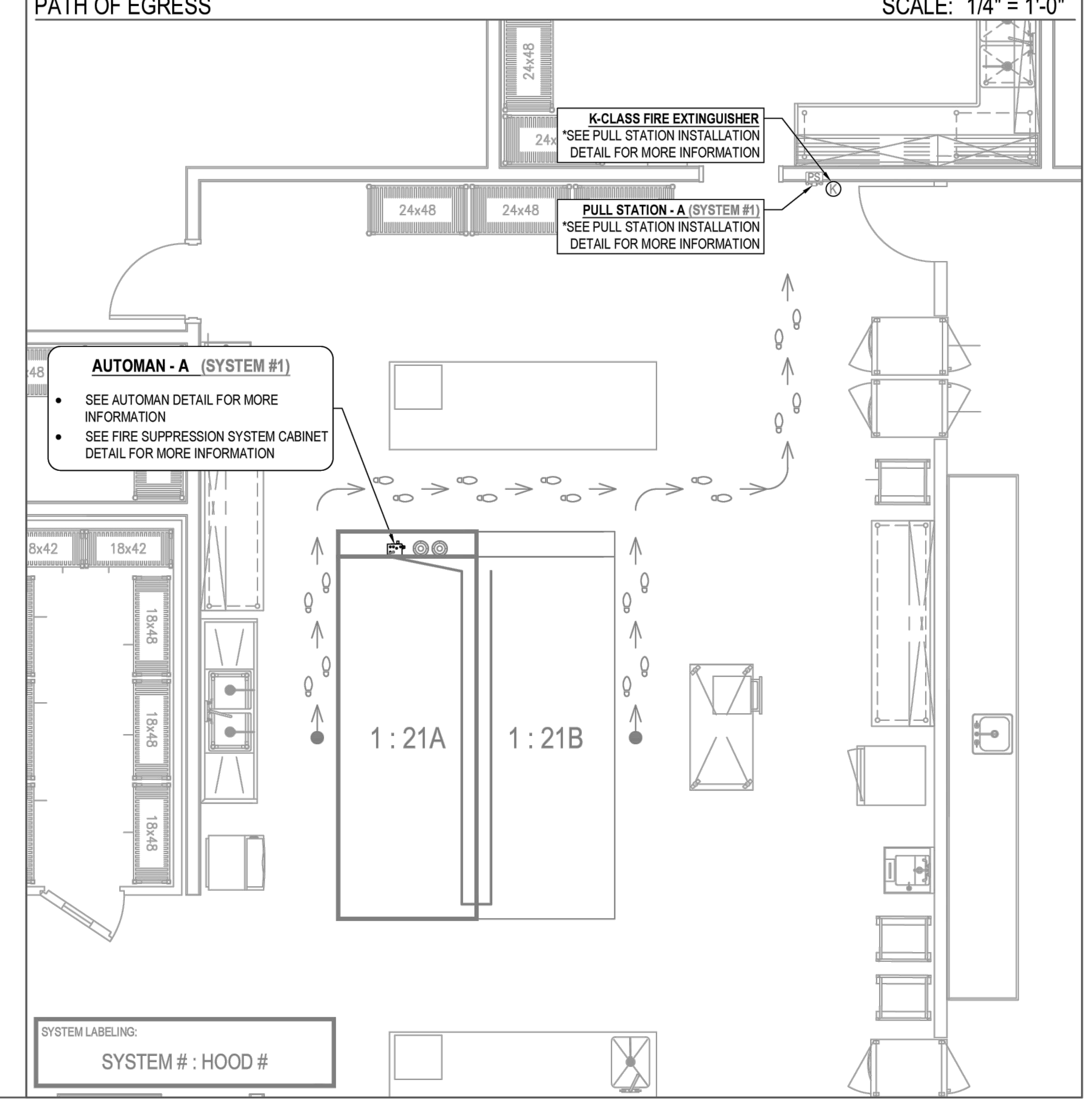


OVERLAPPING COVERAGE



NOTE: FIELD PIPING TO BE INSTALLED BY A STREIVOR APPOINTED LICENSED FIRE SUPPRESSION INSTALLER

PATH OF EGRESS SCALE: 1/4" = 1'-0"



INSTALLER:

GENERAL NOTES:

STREIVOR™ AIR SYSTEMS

"STRIVING FOR EXCELLENCE"

2150 KITTY HAWK ROAD, LIVERMORE, CA 94551
PHONE: (925) 960-9090 FAX:(925) 960-9055
WWW.STREIVOR.COM

CUSTOMER APPROVAL

COOKING EQUIPMENT VERIFICATION

VERIFY THE FOLLOWING:

HIGH BACK SHELVES	YES ☐	NO ☐
RANGE COOKING SURFACE DEPTH GREATER THAN 28"	YES ☐	NO ☐
PULL STATION LOCATION(S)	YES ☐	NO ☐
UTILITY CABINET LOCATION(S)	YES ☐	NO ☐
AGENT DISTRIBUTION HOSE AND RESTRAINING CABLE KIT	YES ☐	NO ☐
CEILING HEIGHT	___' - ___"	

APPROVED BY DATE

NOTE TO REVIEWER:
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PROJECT:
LUTHER BURBANK HS

---,-- -----

AMD FOODSERVICE DESIGN

ITEM #:	21.1
SYSTEM #:	1
HOOD #:	21A
DATE:	02/09/2024
DRAWN BY:	SWB
CHECKED BY:	KCS
CONSULTANT:	AMD FOODSERVICE DESIGN
SCALE: (UNLESS OTHERWISE NOTED)	1/2" = 1' - 0"

IF BAR DOES NOT MEASURE 1" THIS DRAWING IS NOT PLOTTED TO SCALE

△	DESCRIPTION	DATE	INT
△	---	--/--/--	---
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△	---	--/--/--	---

DRAWING:
F-01
SHEET 01 OF 02

Sacramento City UNIFIED SCHOOL DISTRICT

HMC Architects
3186-071-000
2101 CAPITOL AVENUE, SUITE 100, SACRAMENTO, CA 95816
916 368 7990 / www.hmcarchitects.com

LICENSED ARCHITECT MICHAEL CHESTER BATH C-25193 REN. 07/31/25 STATE OF CALIFORNIA

ISSUE

△	DESCRIPTION	DATE

AMD FOODSERVICE DESIGN

KEYNOTES

NOTES

FACILITY:
LUTHER BURBANK HIGH SCHOOL
3500 FLORIN RD
SACRAMENTO, CA 95823

PROJECT:
LUTHER BURBANK HIGH SCHOOL CAFETERIA MODERNIZATION

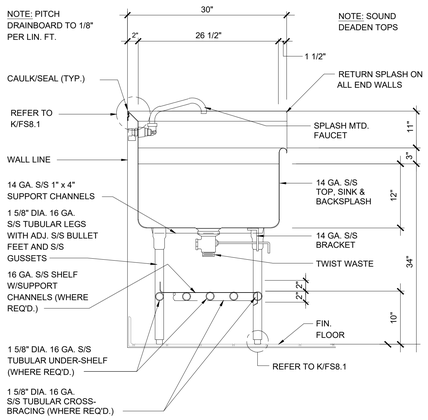
SHEET NAME:
FOODSERVICE EQUIPMENT EXHAUST HOOD DETAILS

DSA SUBMITTAL

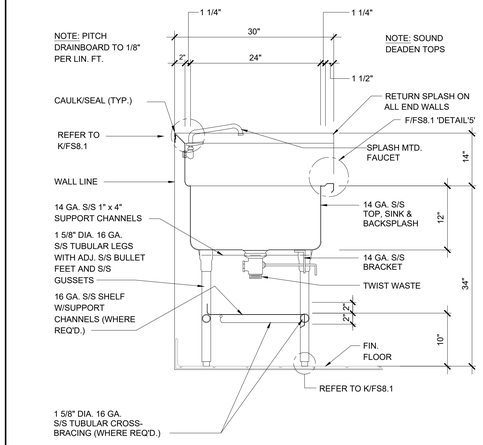
DATE: **2024.09.13** CLIENT PROJ NO: **3186071000**

SHEET:

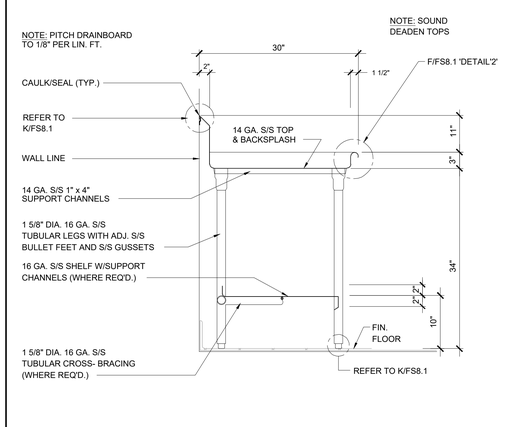
FS5.3



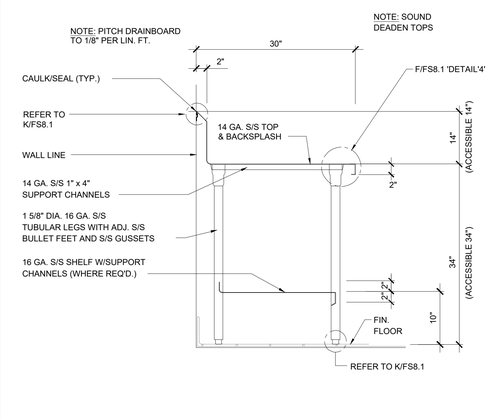
A SECTION AT POT SINK (INTEGRAL) NTS



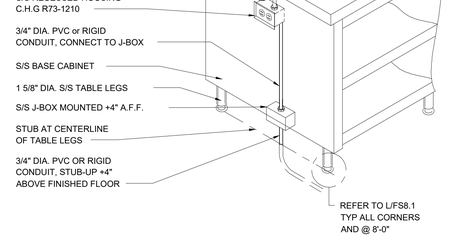
B SECTION AT PREP SINK NTS



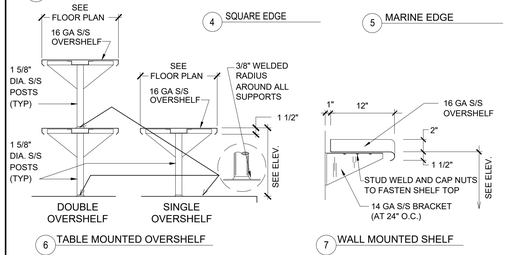
C SECTION AT DISHTABLE NTS



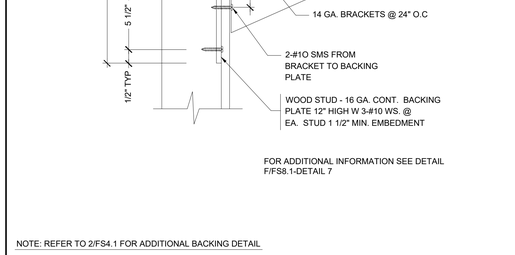
D SECTION AT WORKCOUNTER NTS



E CHEFS COUNTER & ELEC. DETAIL NTS

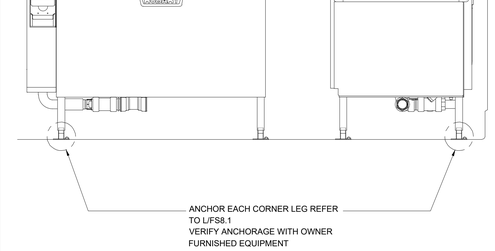


F EDGE/SPLASH/SHELF DETAILS NTS

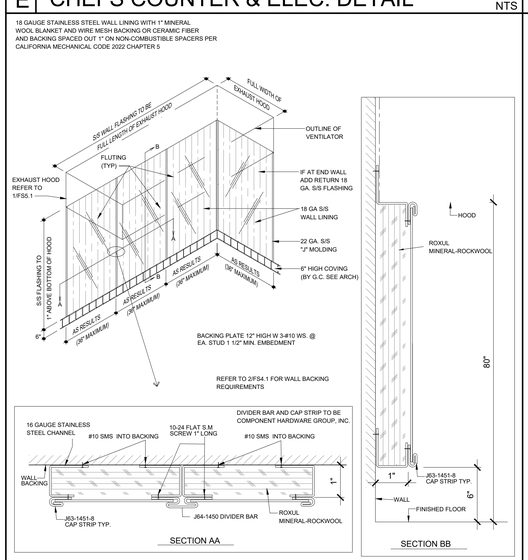


NOTE: REFER TO 2/FS4.1 FOR ADDITIONAL BACKING DETAIL

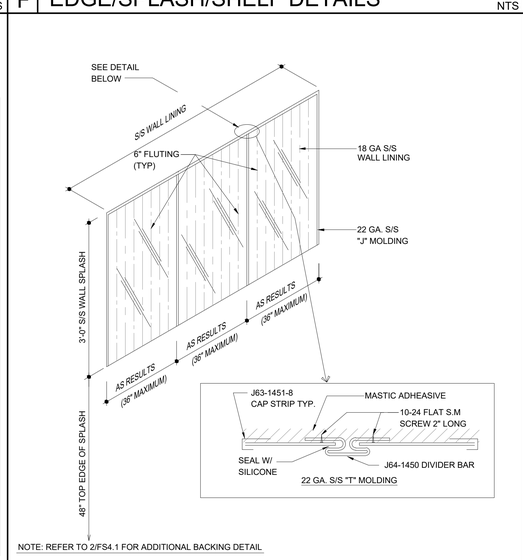
G WALL MOUNTED SHELF NTS



H WAREWASHER, RACK CONVEYOR

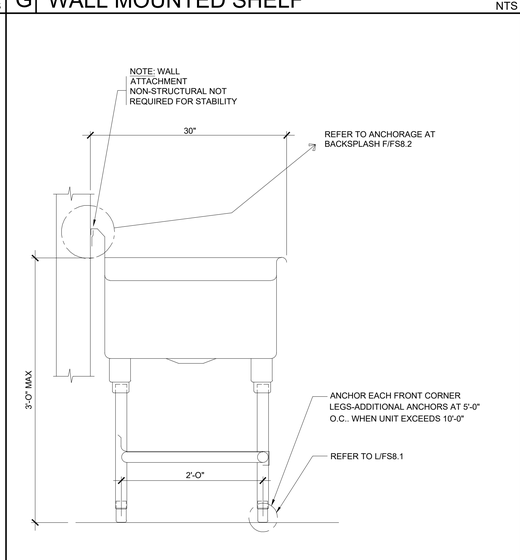


I S/S INSULATED WALL LINING DETAIL NTS

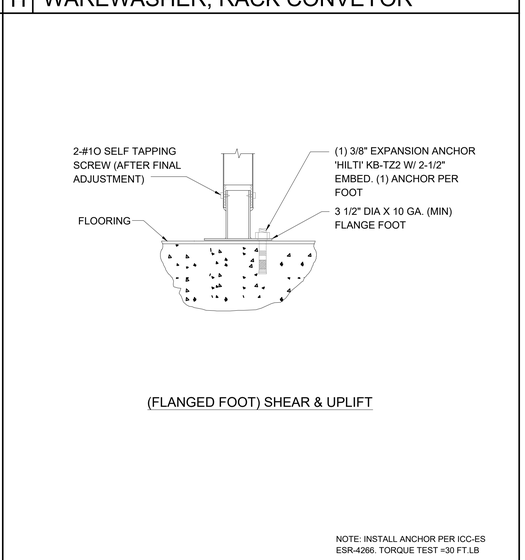


NOTE: REFER TO 2/FS4.1 FOR ADDITIONAL BACKING DETAIL

J WALL SPLASH NTS



K FLOOR MOUNTED SINK @ WALL NTS



NOTE: INSTALL ANCHOR PER ICC-ES ESR-4266. TORQUE TEST =30 FT.LB

L FOOT ANCHORAGE DETAIL NTS

AGENCY APPROVAL:

REVIEWING AGENCIES STAMP HERE

Sacramento City UNIFIED SCHOOL DISTRICT

HMC Architects
3186-071-000
2101 CAPITOL AVENUE, SUITE 100,
SACRAMENTO, CA, 95816
916 368 7990 / www.hmcarchitects.com

LICENSED ARCHITECT MICHAEL CHESTER RAHN C-25193 REN. 07/31/25 STATE OF CALIFORNIA

ISSUE

Δ	DESCRIPTION	DATE

AMD FOODSERVICE DESIGN

KEYNOTES

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3500 FLORIN RD
SACRAMENTO, CA 95823

PROJECT:
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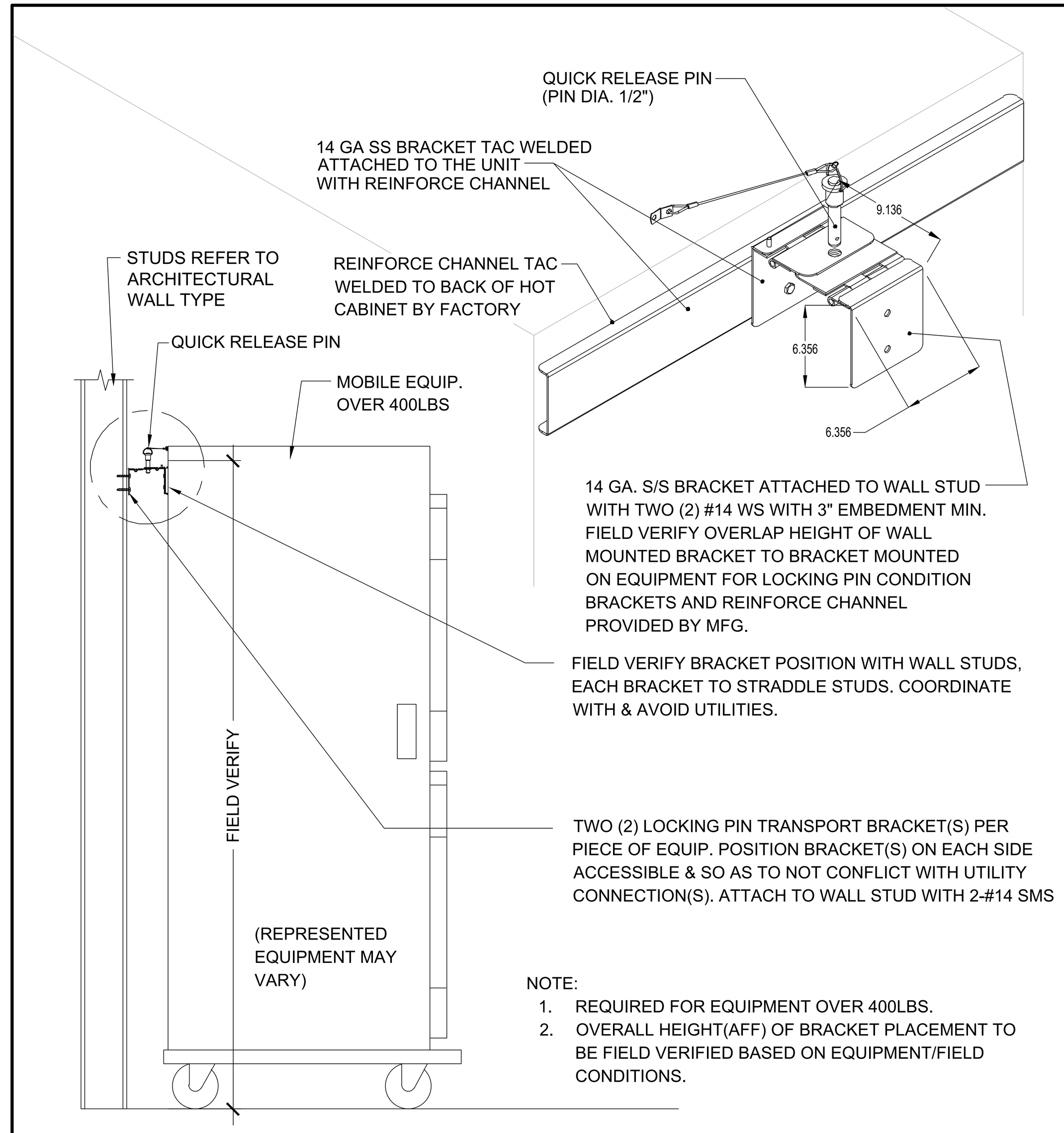
SHEET NAME:
FOODSERVICE EQUIPMENT ANCHORAGE DETAILS

DSA SUBMITTAL

DATE: **2024.09.13** | CLIENT PROJ NO: **3186071000**

SHEET:

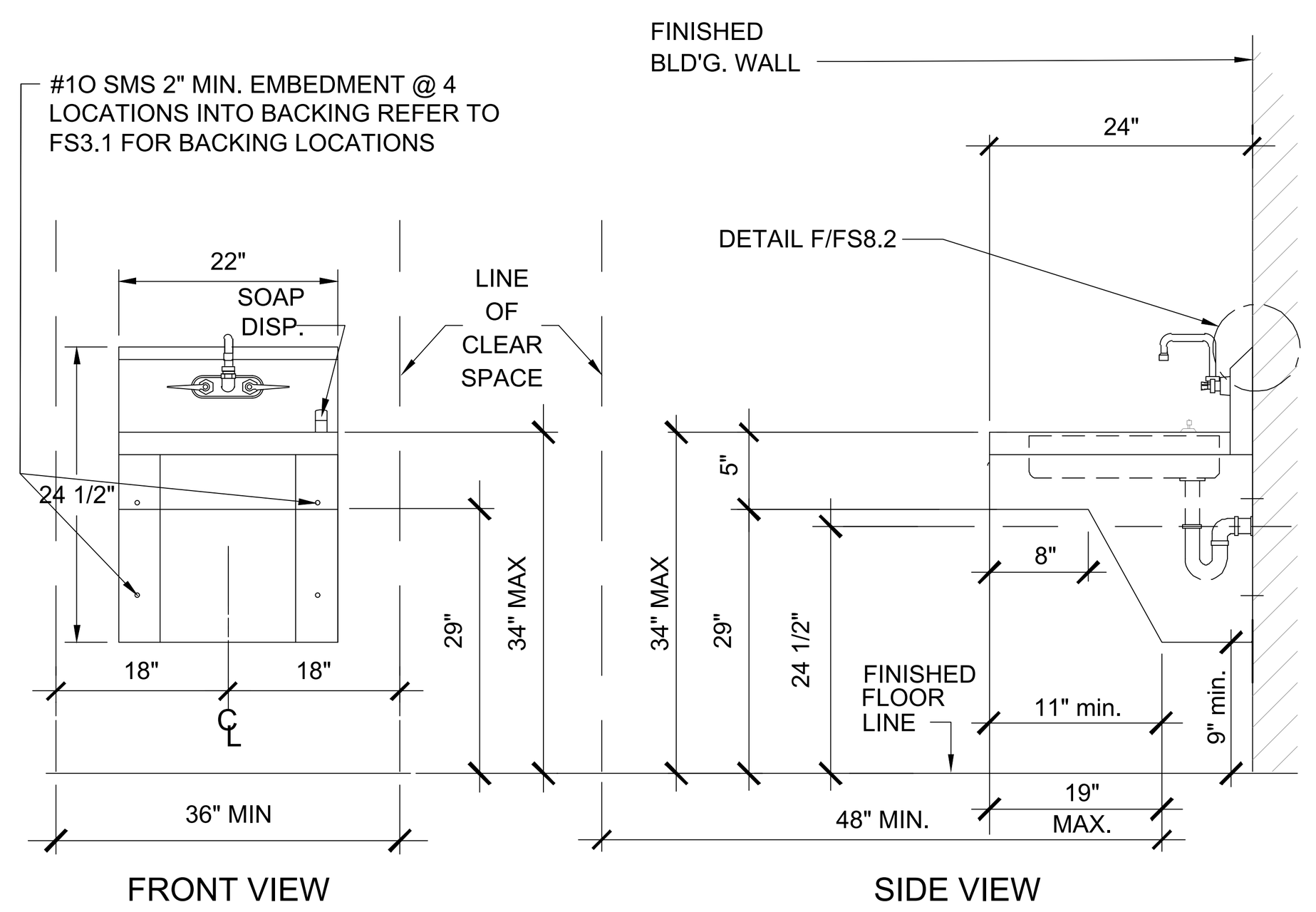
FS8.1



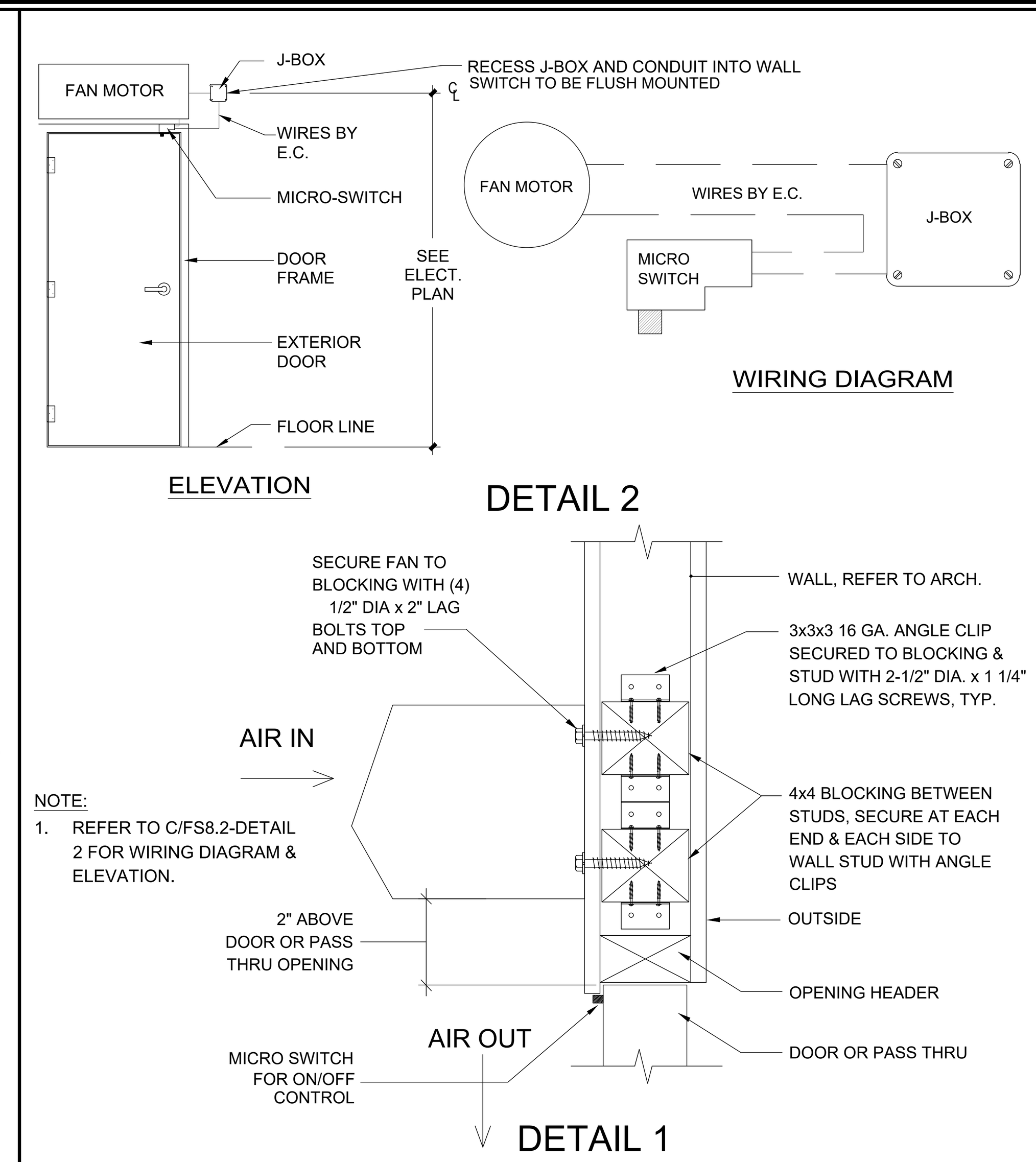
A | MOBILE EQUIP. ANCHORAGE BRACKET NTS

ACCESSIBLE HAND SINK REQUIREMENT NOTES

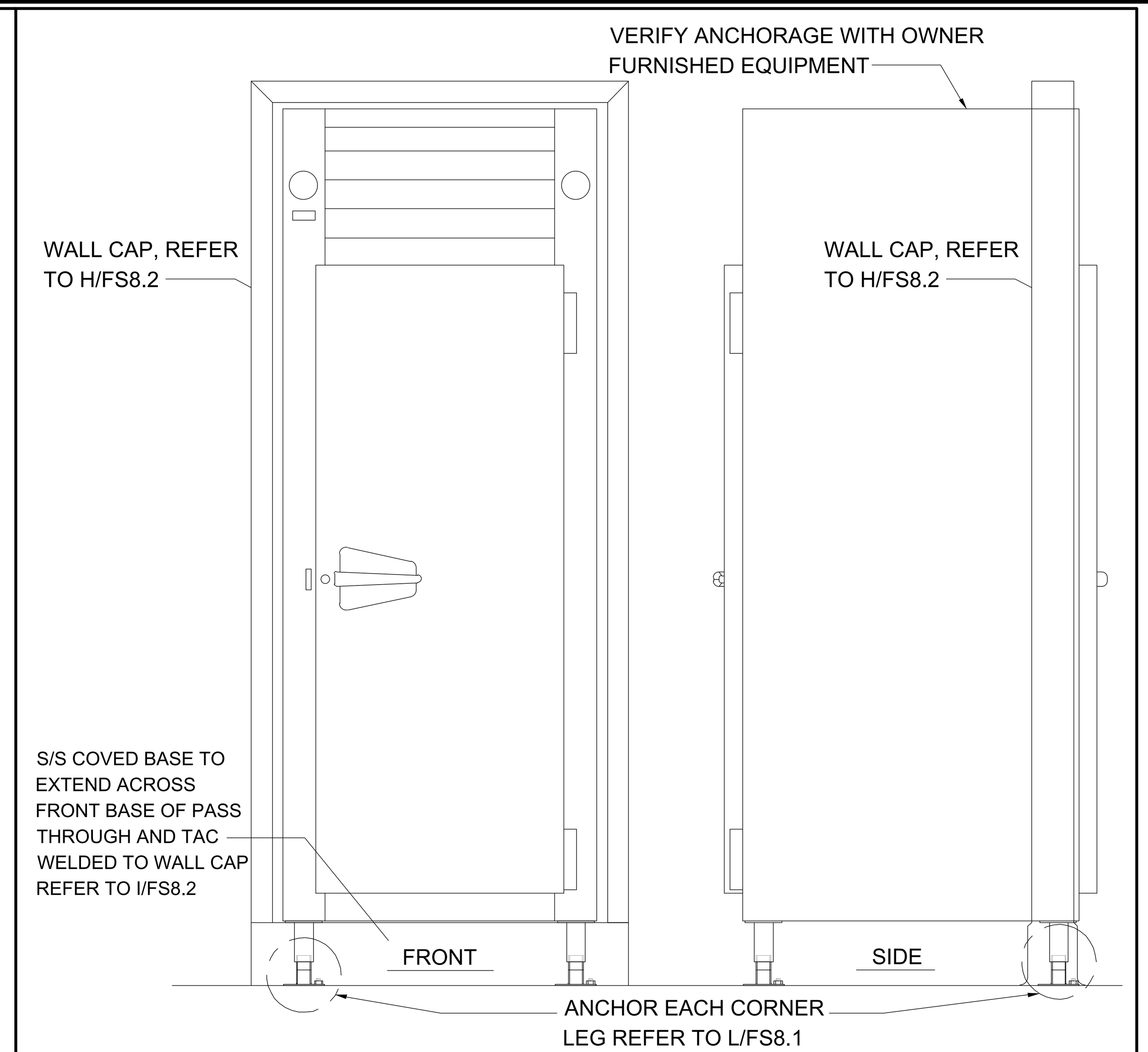
1. HOT WATER AND DRAIN PIPES UNDER ACCESSIBLE HAND SINKS SHALL BE INSULATED OR OTHERWISE COVERED. THERE SHALL BE NO SHARP OR ABRASIVE OBJECTS OR SURFACES UNDER HAND SINKS.
2. FAUCET CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 LBF. LEVER-OPERATED, PUSH-TYPE AND MECHANISMS ARE EXAMPLES OF ACCEPTABLE DESIGNS.
3. WHERE TOWEL, SANITARY NAPKINS, WASTE RECEPTACLES, SOAP DISPENSER AND OTHER SIMILAR DISPENSING AND DISPOSAL FIXTURES ARE PROVIDED, AT LEAST ONE OF EACH TYPE SHALL BE LOCATED WITH ALL OPERABLE PARTS WITHIN 40 INCHES FROM THE FINISHED FLOOR.
4. ALL DIMENSIONS SHOWN ARE MINIMUM CLEARANCES, UNLESS NOTED.
5. AREA BELOW HAND SINKS SHALL BE ACCESSIBLE AND CLEAR.



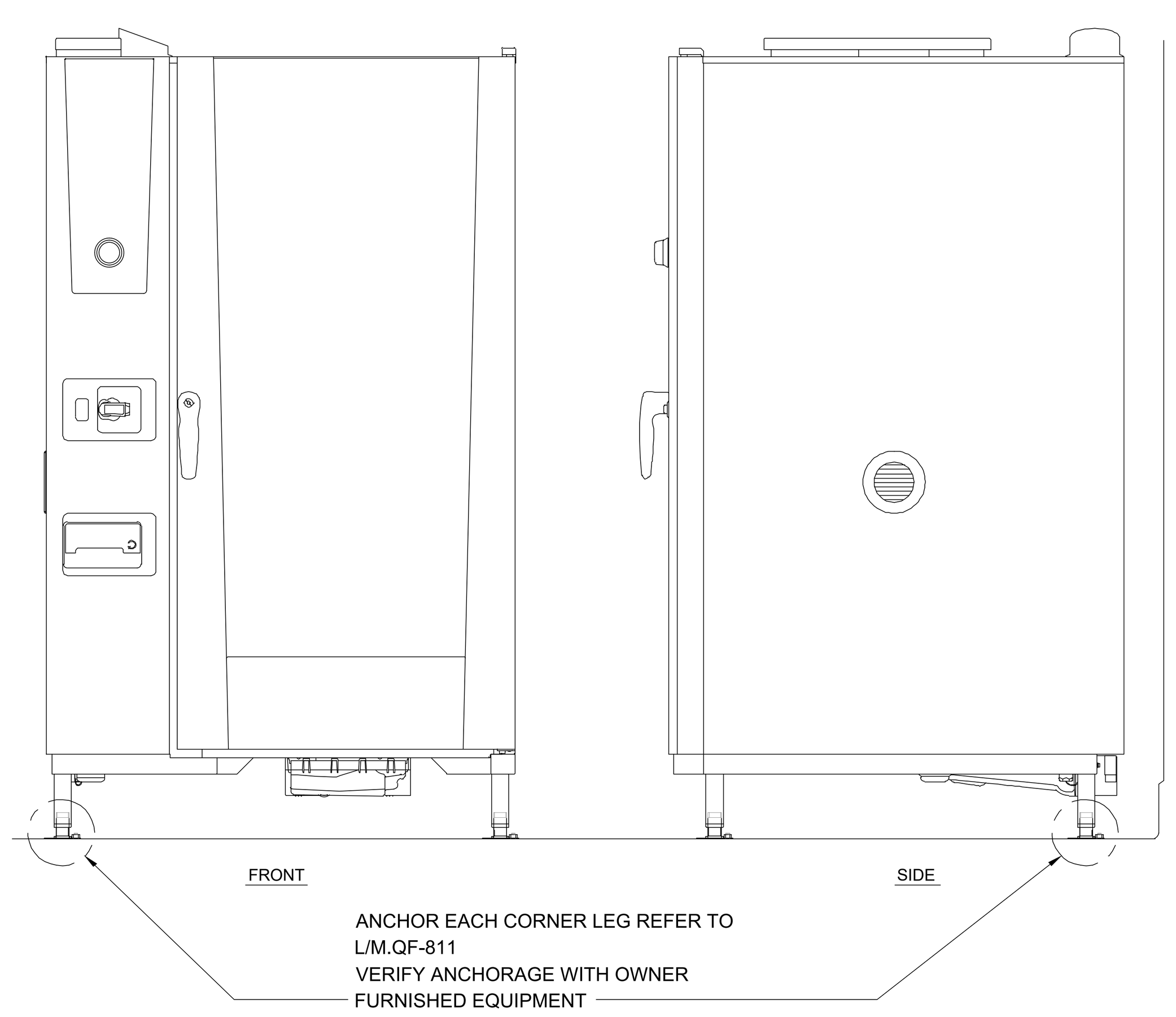
B | ACCESSIBLE HAND SINK DETAILS NTS



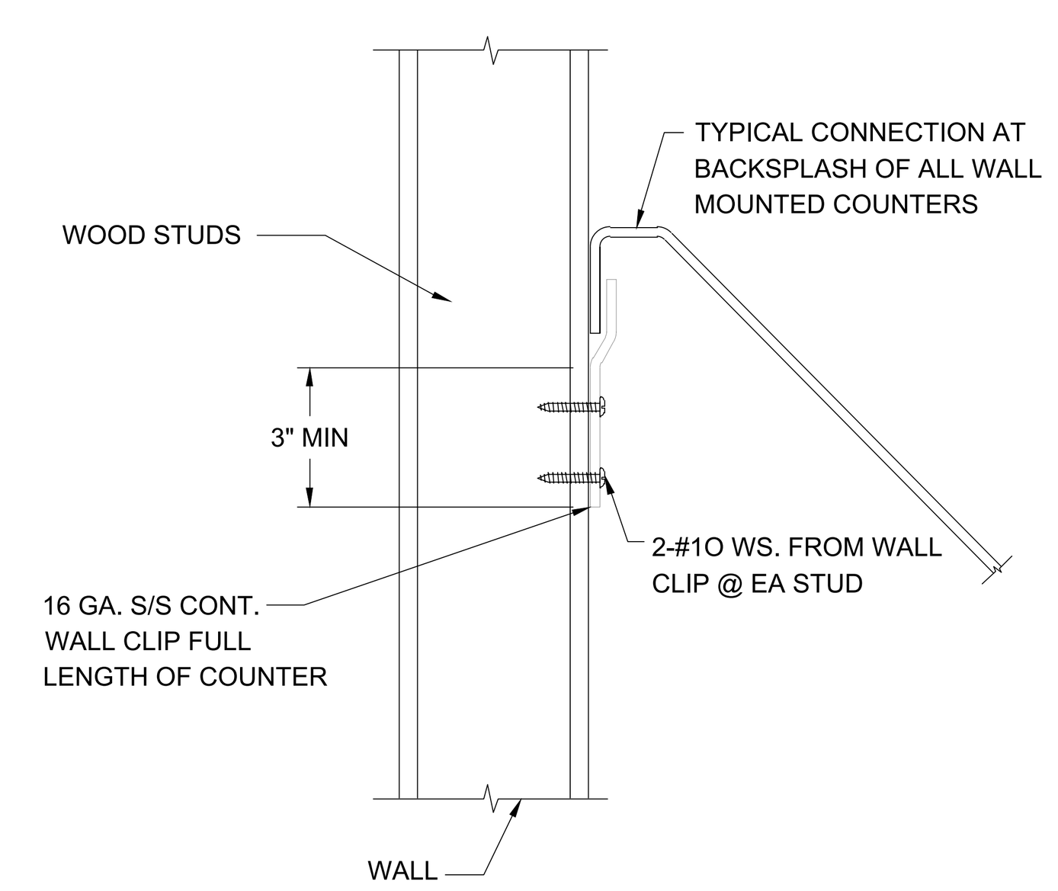
C | AIR CURTAIN MTG & MICRO SWITCH DTL NTS



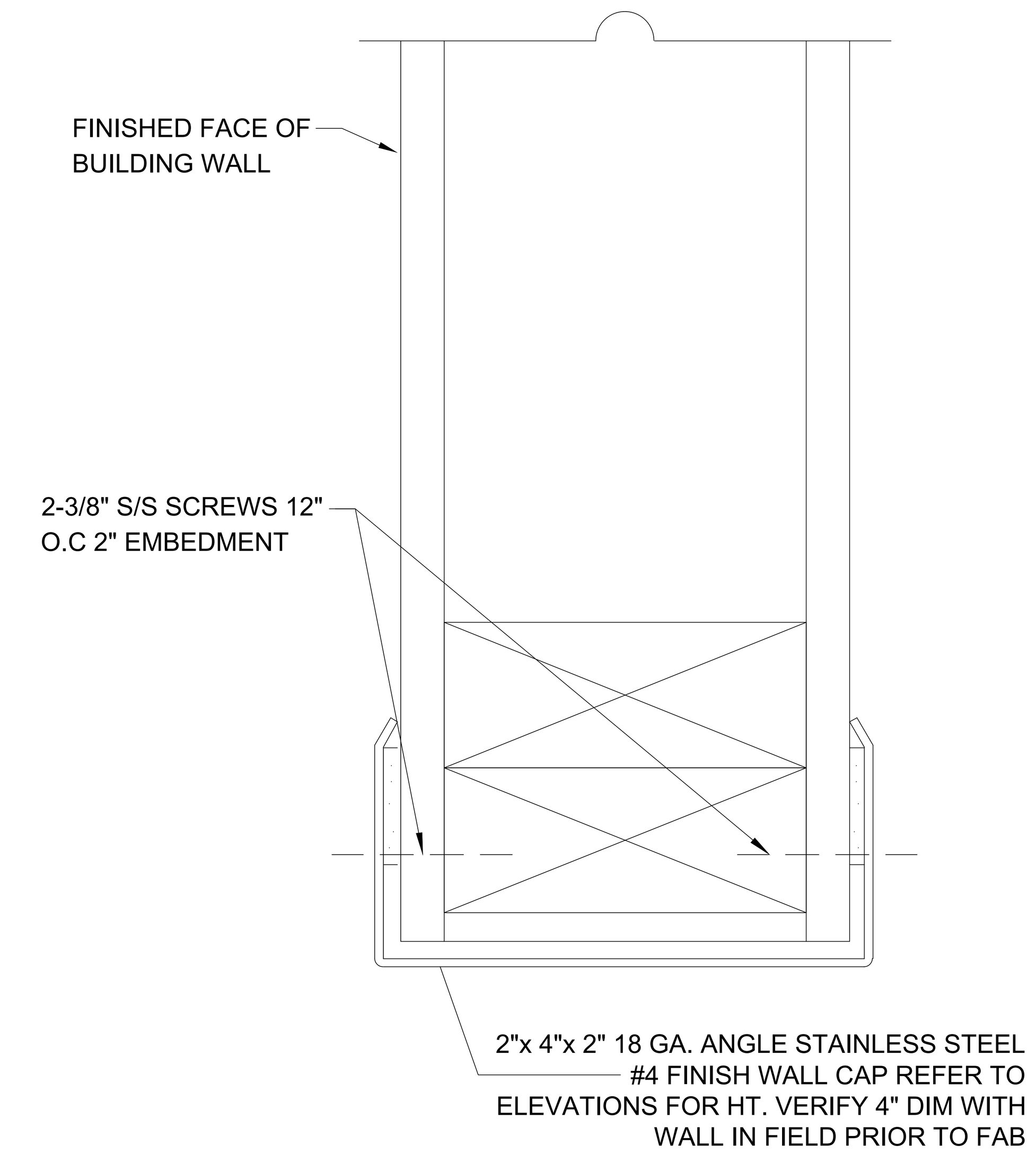
D | PASS THRU HEATED/ REFRIG. CAB NTS



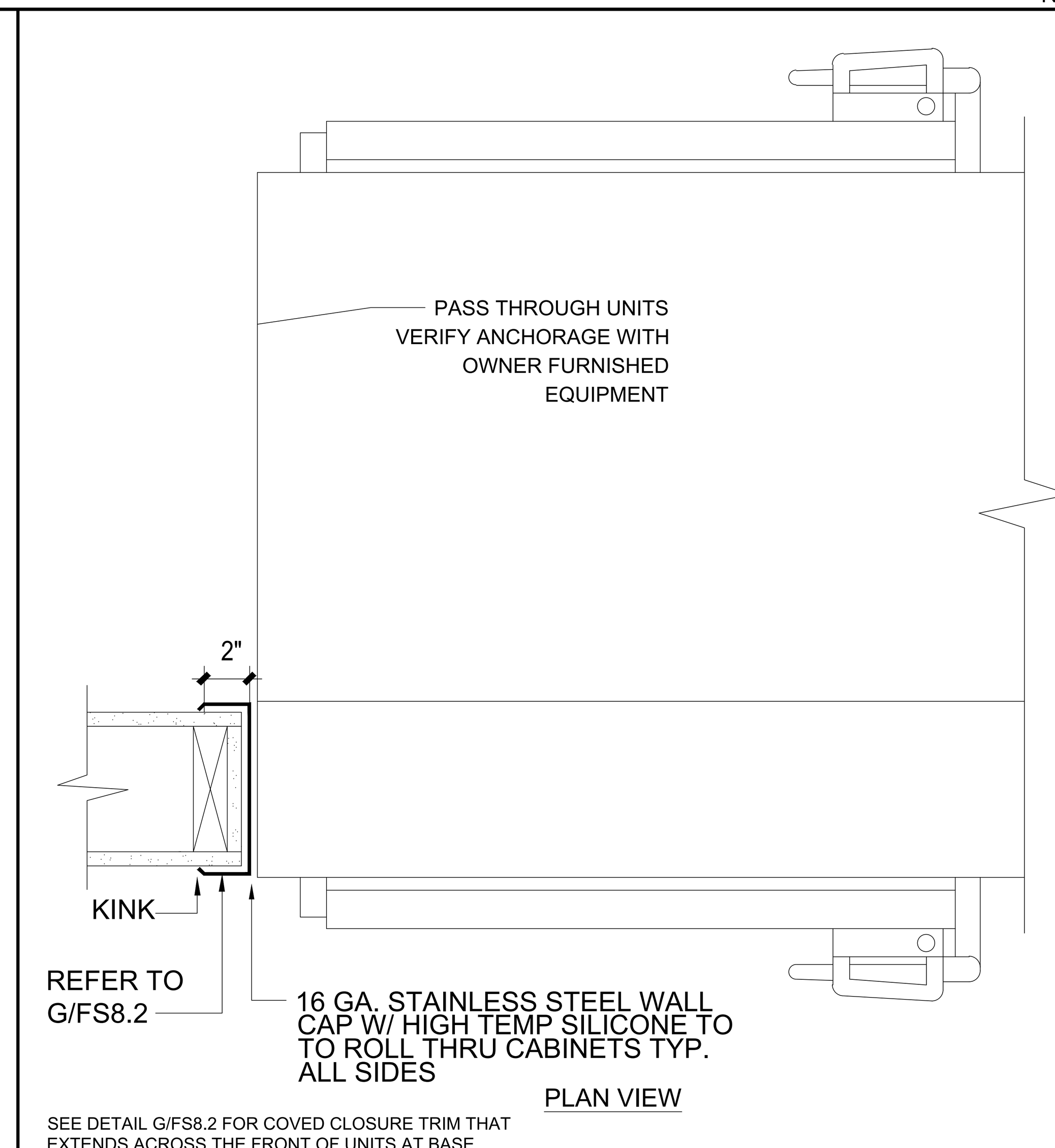
E | COMBI OVEN NTS



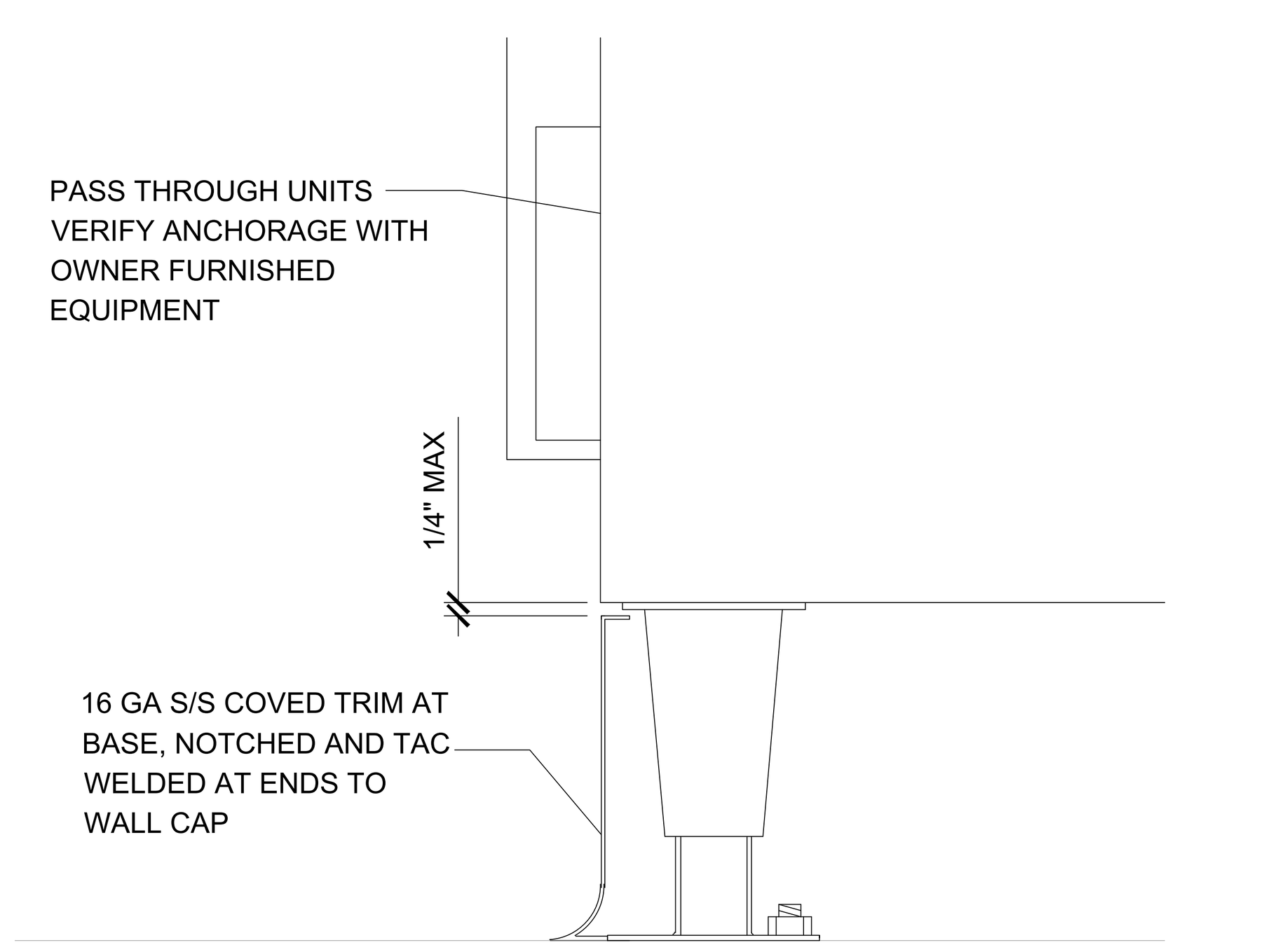
F | ANCHORAGE AT BACKSPLASH



G | WALL CAP



H | WALL CAP AT PASS THROUGH EQUIP.



I | TOE KICK DETAIL

SPARE

J |

SPARE

K |

SPARE

K |

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ISSUE

Δ	DESCRIPTION	DATE

AMD FOODSERVICE DESIGN

KEYNOTES

NOTES

FACILITY:
LUTHER BURBANK HIGH SCHOOL
3500 FLORIN RD
SACRAMENTO, CA 95823

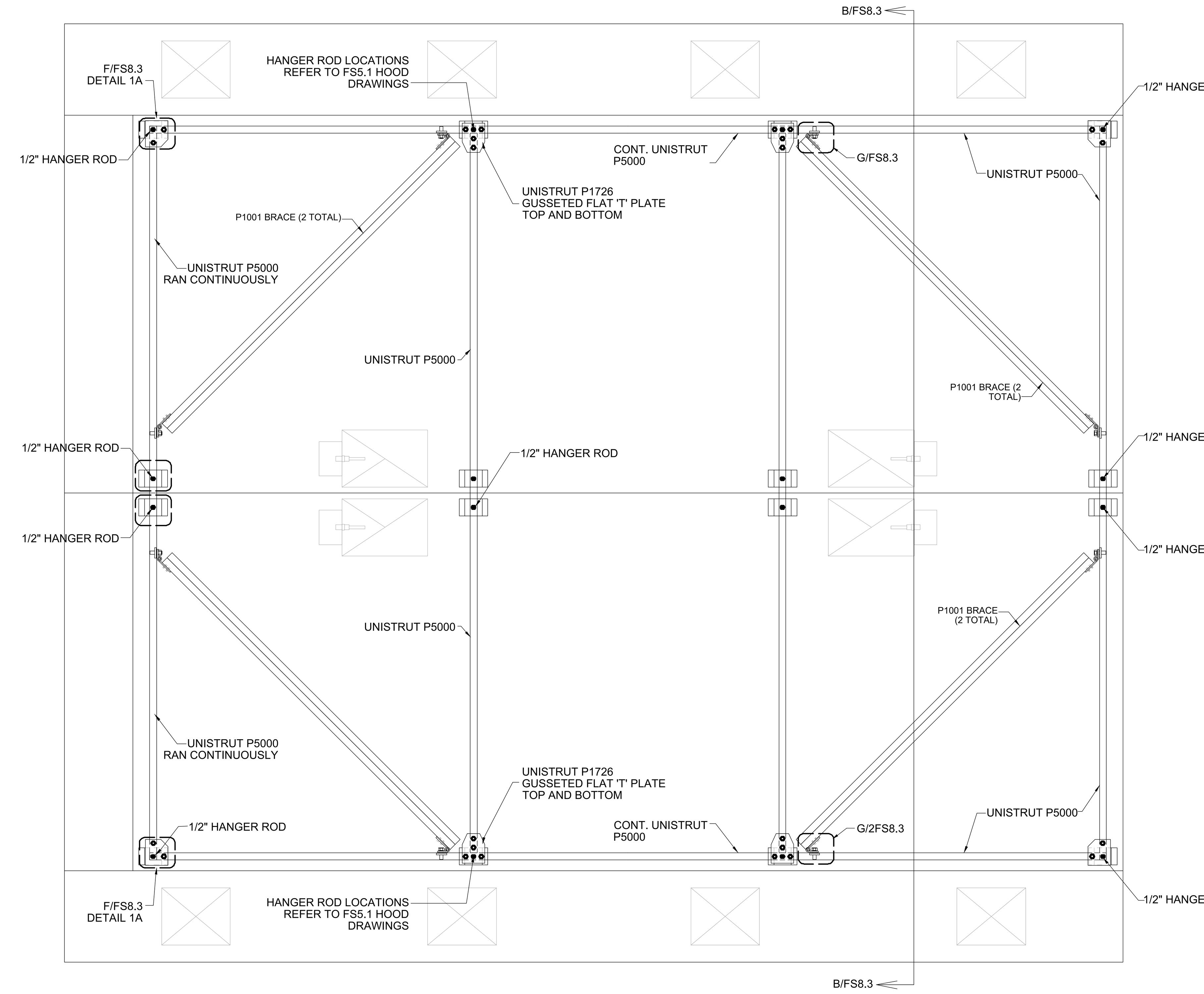
PROJECT:
LUTHER BURBANK HIGH SCHOOL CAFETERIA MODERNIZATION

SHEET NAME:
FOODSERVICE EQUIPMENT ANCHORAGE DETAILS

DSA SUBMITTAL

DATE: 2024.09.13 | CLIENT PROJ NO: 3186071000

SHEET:
FS8.2

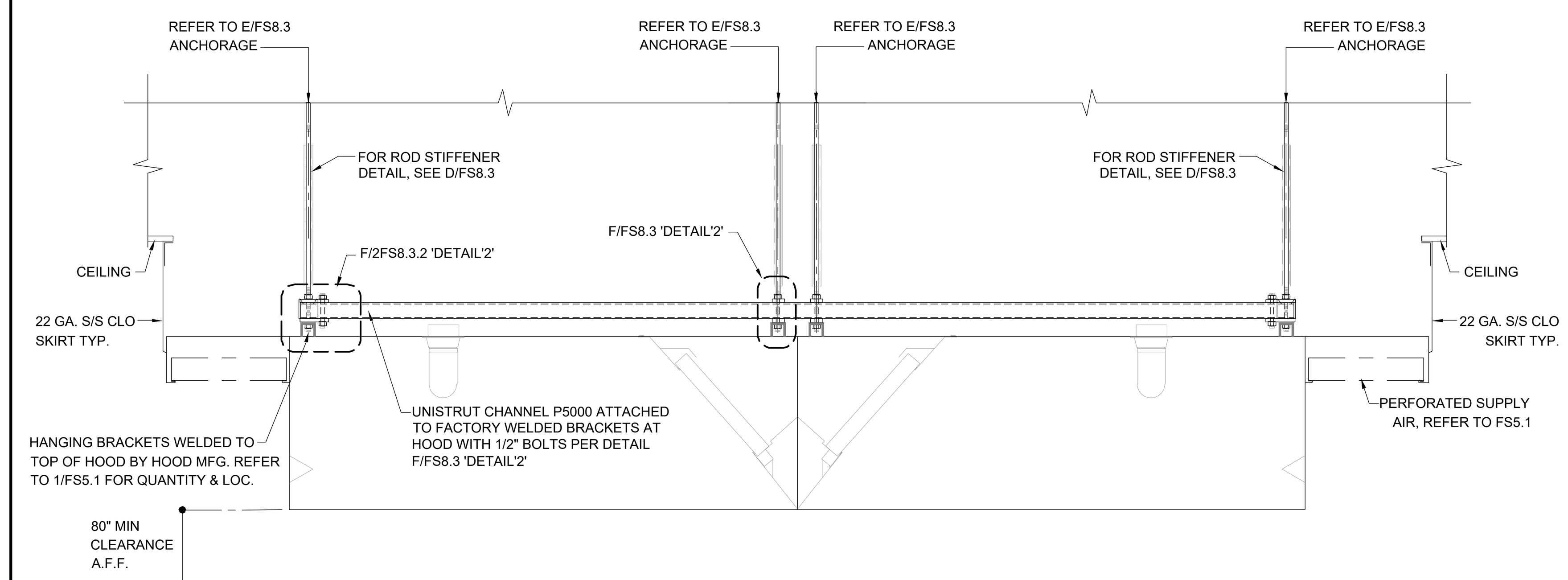


PLAN VIEW @ HOOD ITEM 21
HANGER AND BRACING

REFER TO FS5.1 FOR EXHAUST HOOD DIMENSIONS

A EXHAUST HOOD ANCHORAGE DETAIL PLAN VIEW

NTS

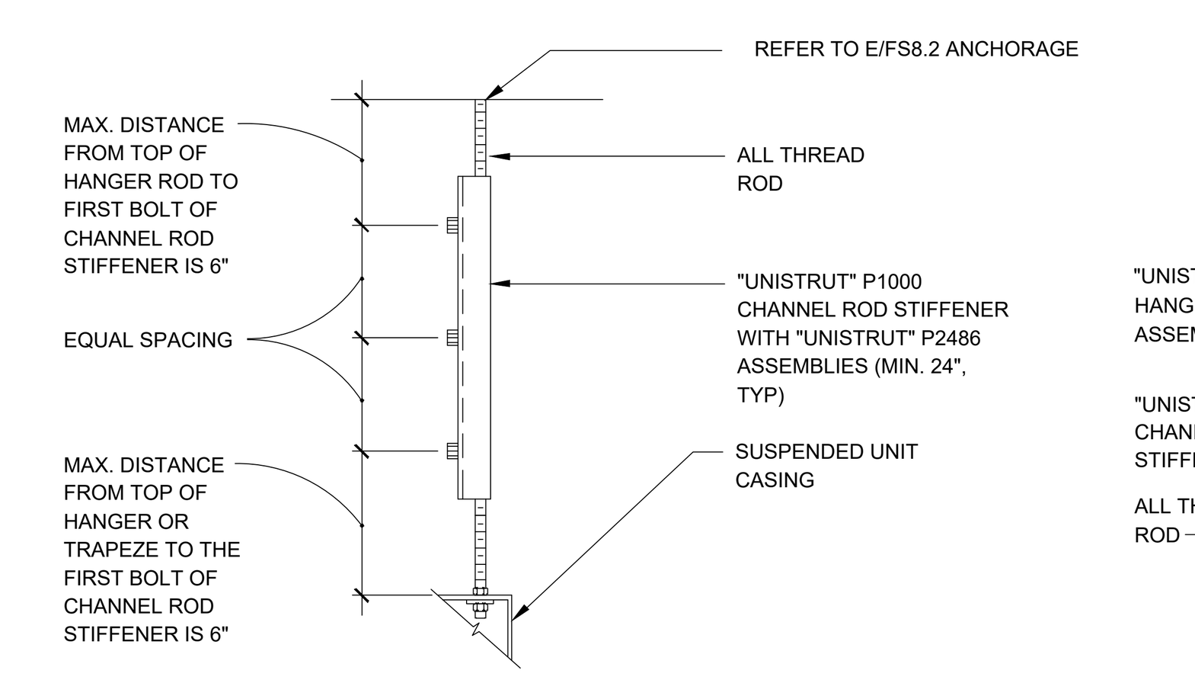


REFER TO FS5.1 FOR EXHAUST HOOD PLAN
REFER TO A/FS8.3 FOR UNISTRUT PLAN AND CONFIGURATION

B EXHAUST HOOD ATTACHMENT SECTION

NTS

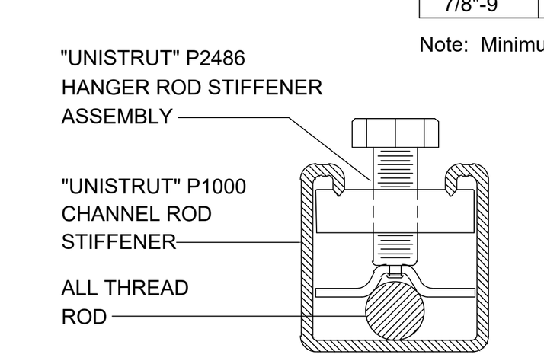
NOTE:
TYPICAL FOR ALL
VERTICAL RODS



ROD STIFFENER CHART

ATR Size	Max. Rod Length Without Rod Stiffener In.	(mm)
3/8"-16	19"	(482.6)
1/2"-13	25"	(635.0)
5/8"-11	31"	(787.4)
3/4"-10	37"	(939.8)
7/8"-9	43"	(1092.2)

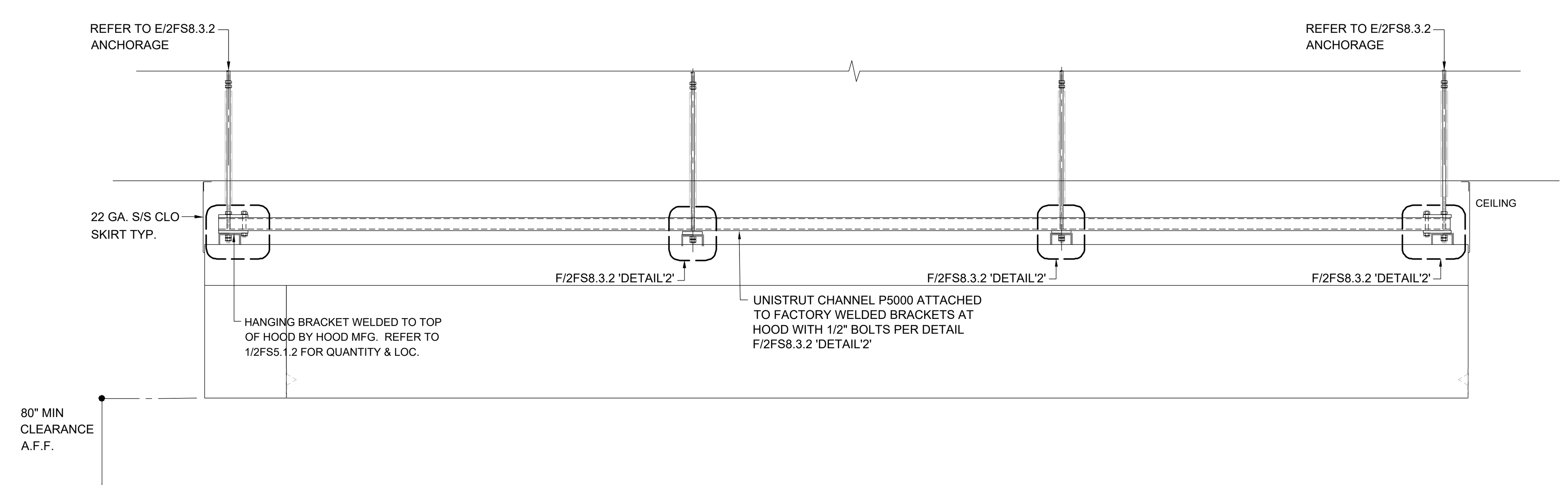
Note: Minimum of (2)-P2486



FOR 3/8" THRU 5/8" ROD
(FOR 3/4" & 7/8" ROD USE SC-UB)

D ROD STIFFENER DETAIL

NTS



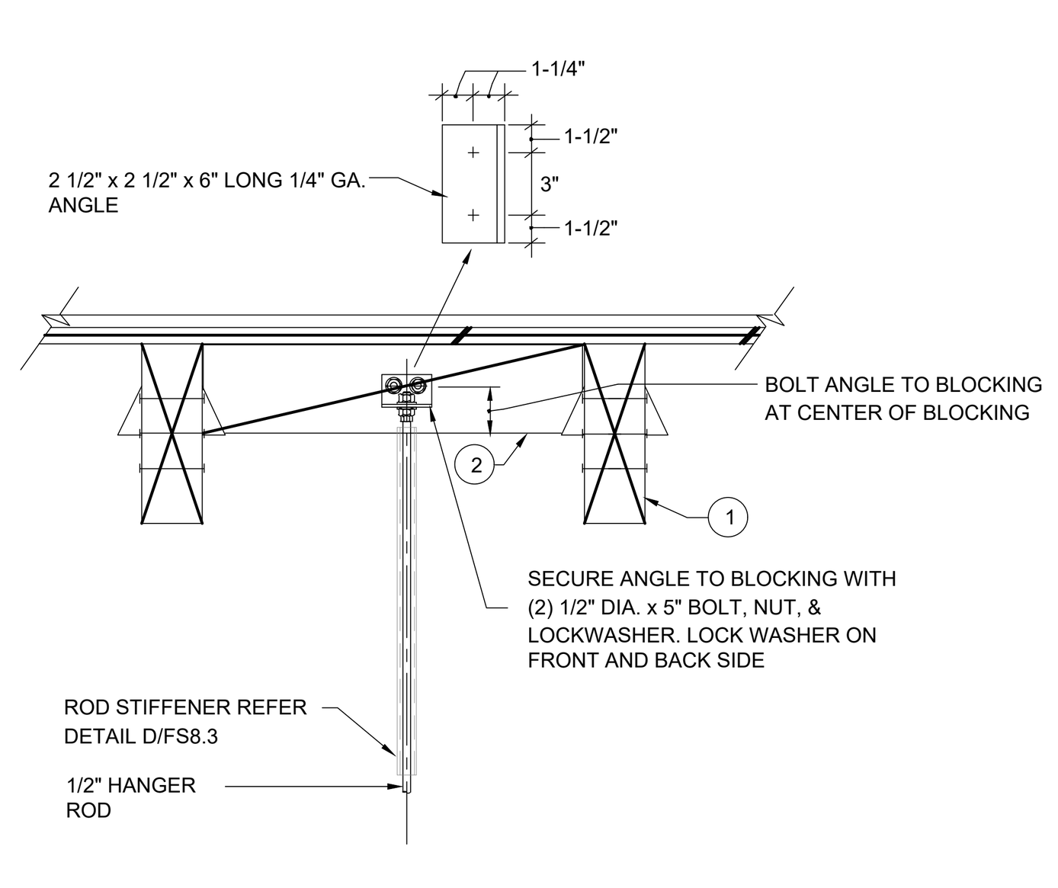
ELEVATION VIEW @ HOOD ITEM 21
HANGER AND BRACING

REFER TO FS5.1 FOR EXHAUST HOOD DIMENSIONS

C EXHAUST HOOD ELEVATIONS

NTS

SPARE

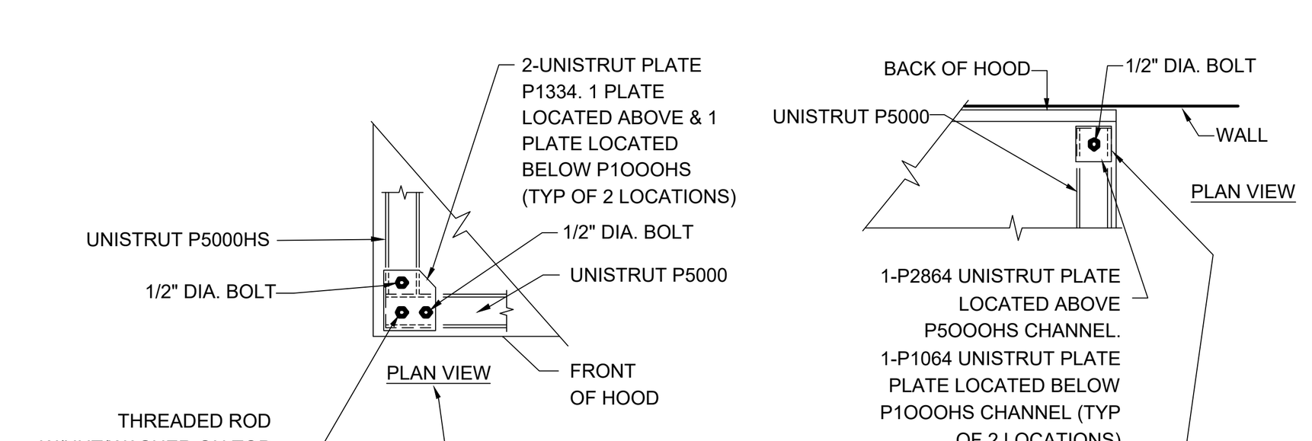


HOOD HANGER SUPPORT
REFER TO K/FS8.2 FOR HOOD DETAIL

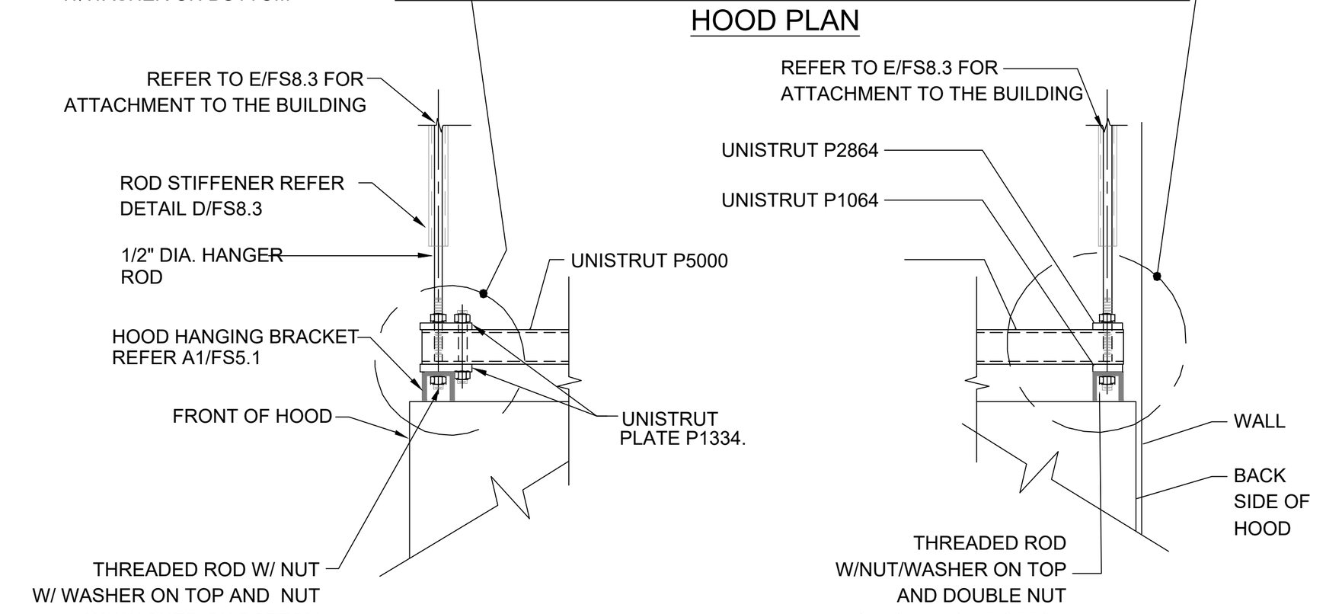
1. EXISTING 2x JOISTS.
2. 4x8 BLOCKING W/ SIMPSON U46 HANGER EACH END TYP

E TYP. UPPER ATTACHMENT

NTS



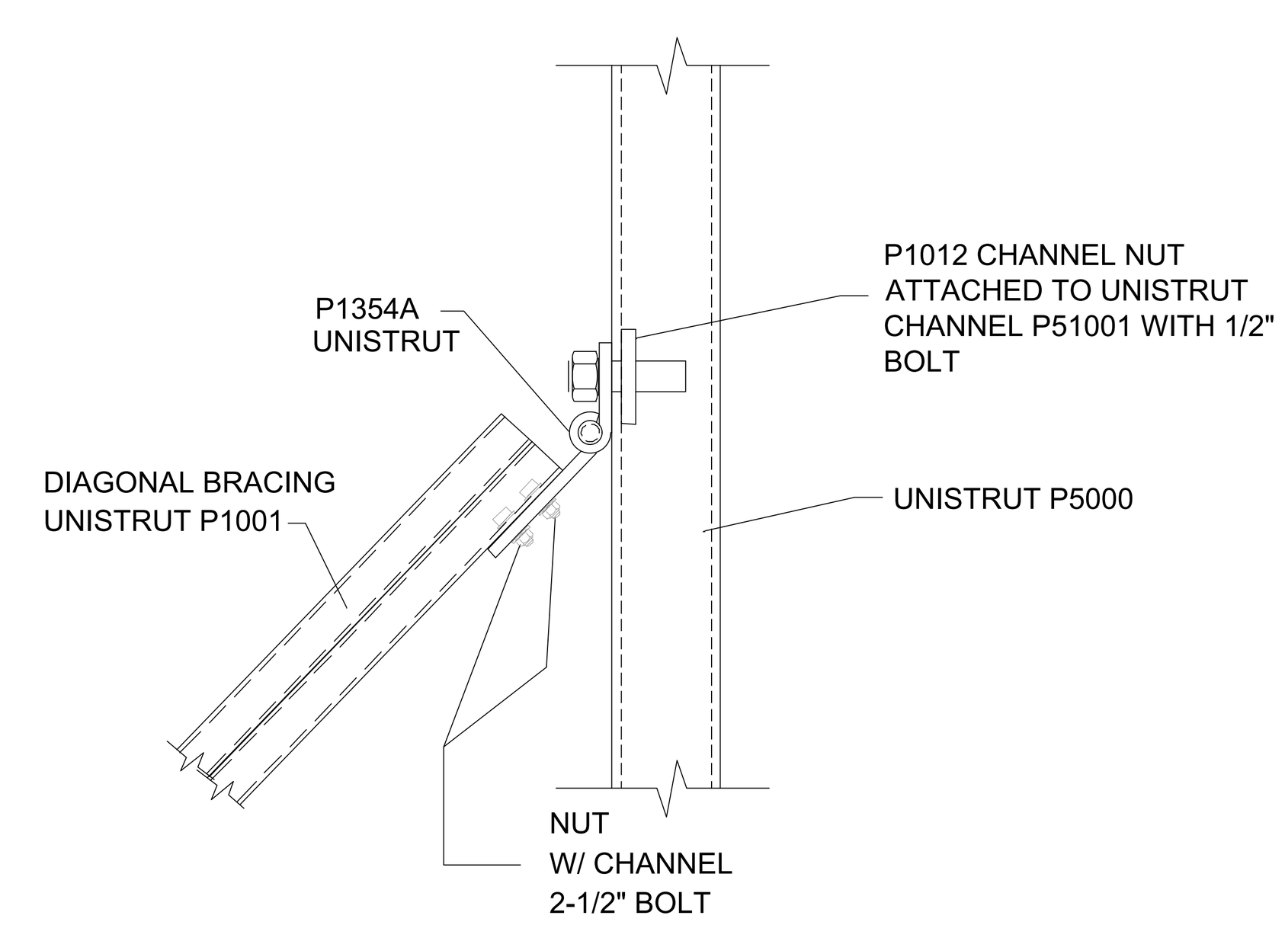
DETAIL 1
HOOD PLAN



DETAIL 2
HOOD SIDE VIEW

F HOOD HANGING SUPPORT

NTS



DETAIL 2
BRACING CONNECTION @ P1001

G DIAGONAL HOOD BRACING

NTS

SPARE

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS SHEET'S ORIGINAL PAGE SIZE

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SHEET:

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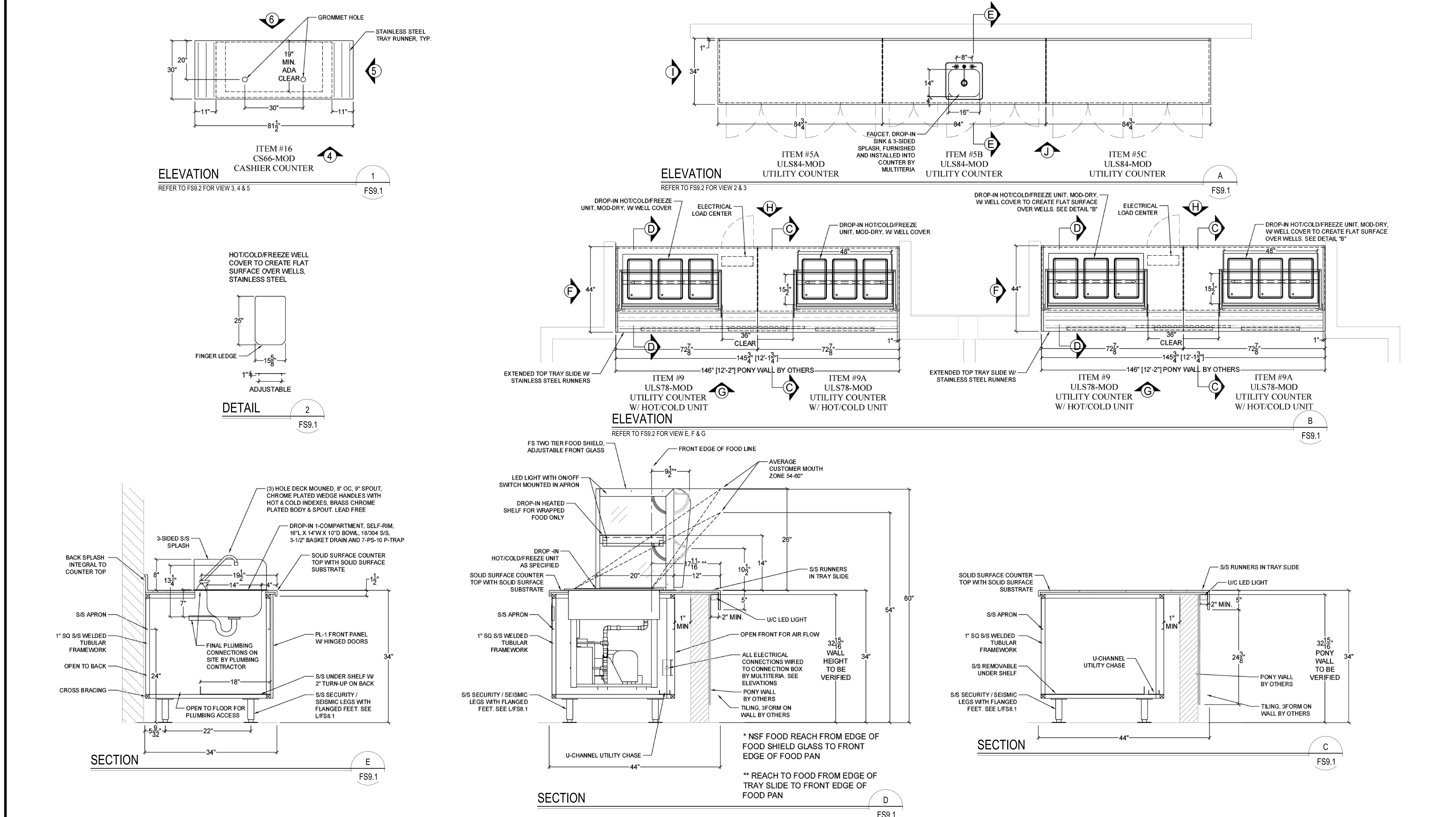

FOOD COUNTER CLASSIFIED UL EPH 3NJB

c UL US LISTED

MATERIAL/COLOR SELECTIONS TO BE SPECIFIED / VERIFIED:

1. COUNTER TOP: SOLID SURFACE. SPECIFY MANUFACTURER & MODEL
2. FOOD SHIELD: SPECIFY BLACK POWDER COAT OR STAINLESS STEEL BRUSHED FINISH
3. TRAY SLIDE: SOLID SURFACE COUNTER TOP EXTENSION WITH (3) STAINLESS STEEL RUNNERS
4. PL-1: PLASTIC LAMINATE. SPECIFY MANUFACTURER, MODEL, FINISH, GRAIN DIRECTION (VERT OR HORZ)
5. TOE KICK: SPECIFY BLACK POWDER COAT OR STAINLESS STEEL BRUSHED FINISH

ITEM #	QTY	MFR	MODEL #	DESCRIPTION	PO NOTES
5B	1	ADV TAB	SS-1-1919-7	DROP-IN WORK SINK	MULTITERIA
5B	1	ADV TAB	K-133	DECK MOUNT FAUCET W/ 9" SWING SPOUT, 8" OC	MULTITERIA
5B	1	ADV TAB	7-PS-10	P-TRAP	MULTITERIA
5C	1	ADV TAB	K-614	3-SIDED SPLASH FOR SS-1-1919-7	MULTITERIA
9	2	DUKE	HCF-3-MOD-DRY	DROP-IN 4 WELL HOT/COLD/FREEZE UNIT, NO DRAINS	MULTITERIA
9	2	HATCO	GRSB-48-F	DROP-IN HEATED SHELF	MULTITERIA
9A	2	DUKE	HCF-3-MOD-DRY	DROP-IN 4 WELL HOT/COLD/FREEZE UNIT, NO DRAINS	MULTITERIA
9A	2	HATCO	GRSB-48-F	DROP-IN HEATED SHELF	MULTITERIA
9/9A	4		CUSTOM	WELL COVER	MULTITERIA

MANUFACTURING NOTES:

1. COUNTER TOP: 1/2" THICK SOLID SURFACE, WITH 1/2" THICK SOLID SURFACE BLOCKING, SILICONED IN PLACE
2. FRAMEWORK: 1"X1" AND 1"X2" STAINLESS STEEL WELDED TUBULAR CONSTRUCTION
3. FRAMEWORK PANELS AND SHELVES: 16GA STAINLESS STEEL, WELDED CONSTRUCTION OR PLACE IN POSITION
4. NON-STRUCTURAL PARTS: TOE KICKS AND DOORS 18GA STAINLESS STEEL, FASTENED WITH #10 SCREWS.
5. CASTER AND LEG MEMBERS: 16GA STAINLESS STEEL, WELDED CONSTRUCTION
6. FOOD SHIELD: 16GA 1"X1" AND 1"X2" STAINLESS STEEL, WELDED TUBULAR FRAMEWORK. FRONT AND SIDE GLASS FASTENED WITH 1/4"-20 AND #10 STAINLESS SCREWS
7. STANDARD ESSENCE CORNERS WITH LAMINATE PANELS, 3/4" MDO PLYWOOD, FASTENED TO FRAME WITH 1/4"-20 AND 5/16"-18 STAINLESS SCREWS. SPECIFY P-L-1 LAMINATE MFR, MODEL, FINISH, GRAIN DIRECTION
8. 6" HIGH STAINLESS STEEL SECURITY/SEISMIC LEGS WITH FLANGED FEET, LOAD RATING 2,000 LBS PER LEG. FASTENED TO FRAMEWORK WITH 5/16"-18 BOLTS AND LOCK WASHERS.
9. HEAVY DUTY 6" CASTERS WITH SWIVEL PLATE WITH 5" WHEELS ON ITEM #16. FASTENED TO FRAMEWORK WITH 5/16"-18 BOLTS AND LOCK WASHERS.
10. INCLUDE EPOXY/GLUE AND DISPENSER GUN SHIPPED LOOSE FOR COUNTER TOP SEAMING.
11. DEFERRED APPROVAL ITEMS:

MANUFACTURERS RECOMMENDED METHOD OF INSTALLING: PLACE COUNTERS INTO POSITION, AS PER ARCHITECTS / CONSULTANTS DRAWINGS, LEVELING OUT THE COUNTERS, FASTENING COUNTER BODIES TOGETHER WITH PROVIDED HARDWARE. FASTEN THE COUNTERS TO THE SUB-FLOOR PER ARCHITECTURAL DRAWINGS, VIA THE COUNTERS SEISMIC LEGS, HARDWARE PROVIDED BY OTHERS.

COUNTER TOP SEAMING NOTE:

ABUTTING COUNTER TOPS TO BE SEAMED. NOTE THAT THE COUNTER TOP EDGES BETWEEN ABUTTING UNITS WILL BE CUT SQUARE AND PREPPED FOR FIELD SEAMING. IF COUNTER TOPS ARE NOT SEAMED WITH THESE SQUARE EDGES, THE TOPS MAY NOT ALIGN PROPERLY. WITH COUNTER TOPS SEAMED, COUNTERS WILL BE NON-MOVABLE. IF COUNTERS ARE MOVED, SEAMS WILL NO LONGER BE INTACT. EPOXY/GLUE WITH DISPENSER GUN WILL BE INCLUDED LOOSE IN SHIPMENT, BUT SEAMING MUST BE COMPLETED ON SITE BY A CERTIFIED INSTALLER. COST TO DO SO IS NOT INCLUDED AS PART OF THE PURCHASE OF THE COUNTERS AND MUST BE ANTICIPATED BY OTHERS.

FSEC TO VERIFY ALL DELIVERY ACCESSES (LOADING DOCK, DOORS, HALLWAYS, ELEVATORS, ETC.) WILL ACCOMMODATE COUNTER SIZES AS SHOWN

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SACRAMENTO, CA

MULTITERIA

MULTITERIA
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WEST MILWAUKEE, WI 53219

SHEET NO. 1 Of 2

PROJECT NO. 23515

DATE: 9/12/24

SCALE: 1/2"=1'-0"

DRAWN BY: SMP

AUTOCAD D SIZE

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FOODSERVICE EQUIPMENT SERVING LINE DETAILS

DSA SUBMITTAL

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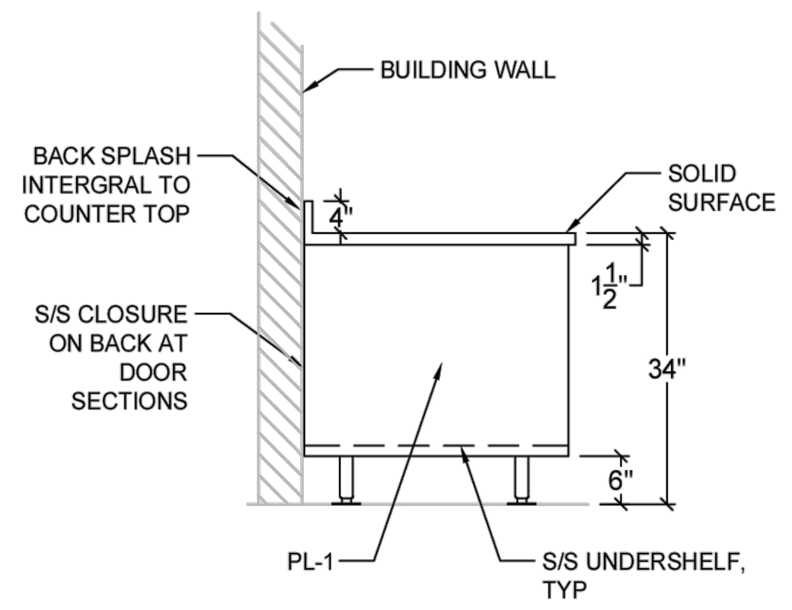
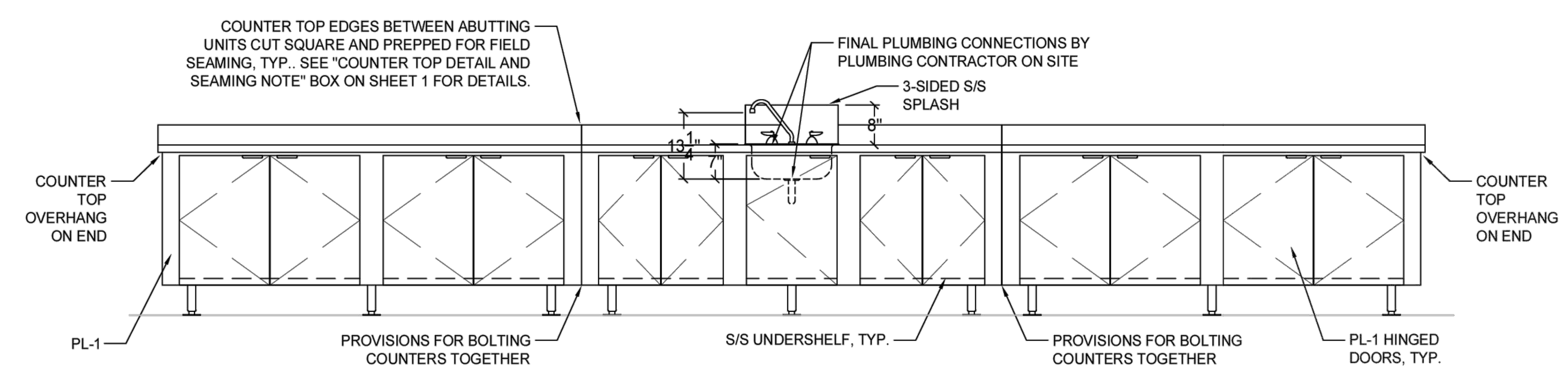


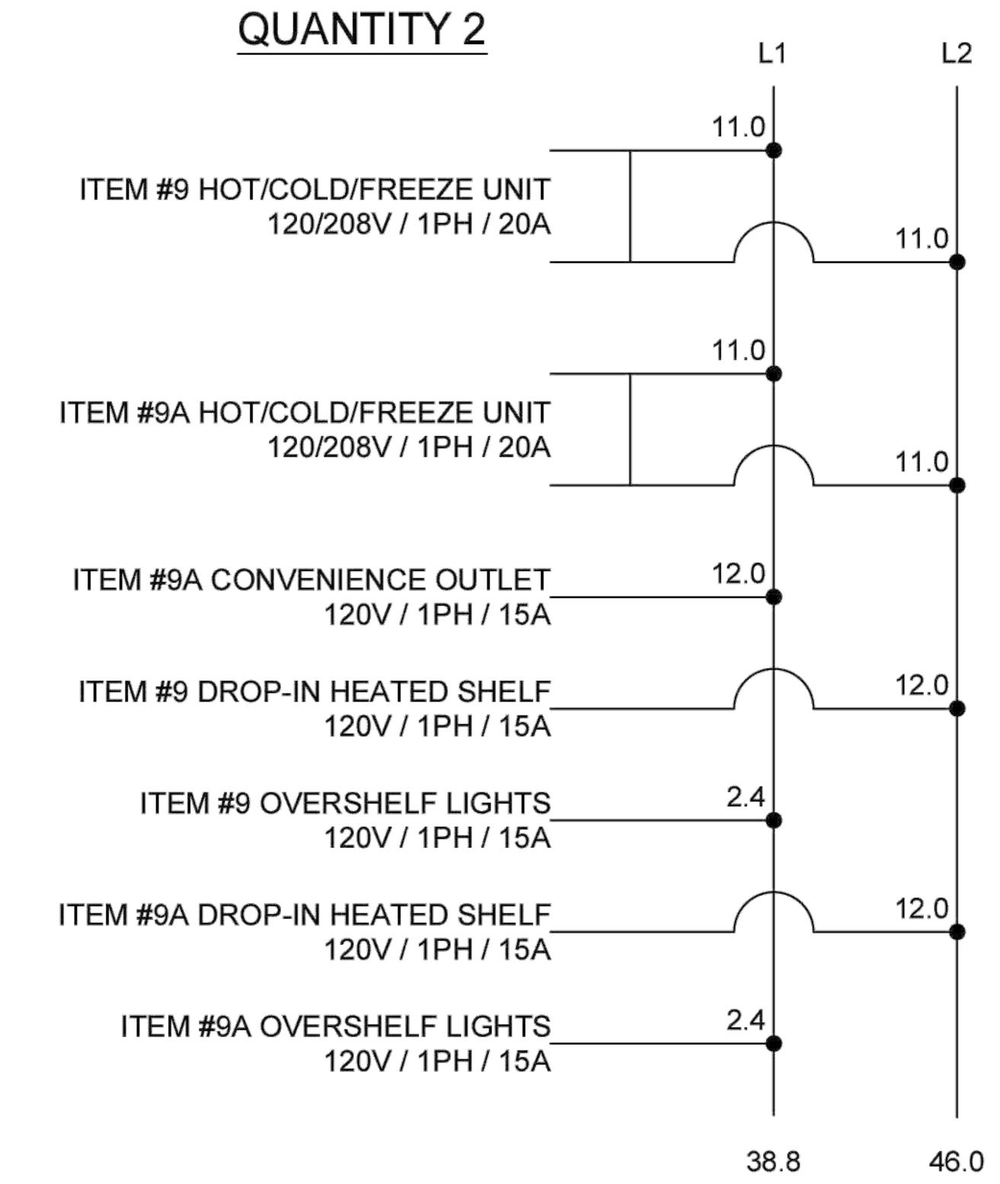
ELEVATION I
REFER TO A/FS9.1 FOR PLAN VIEW FS9.2

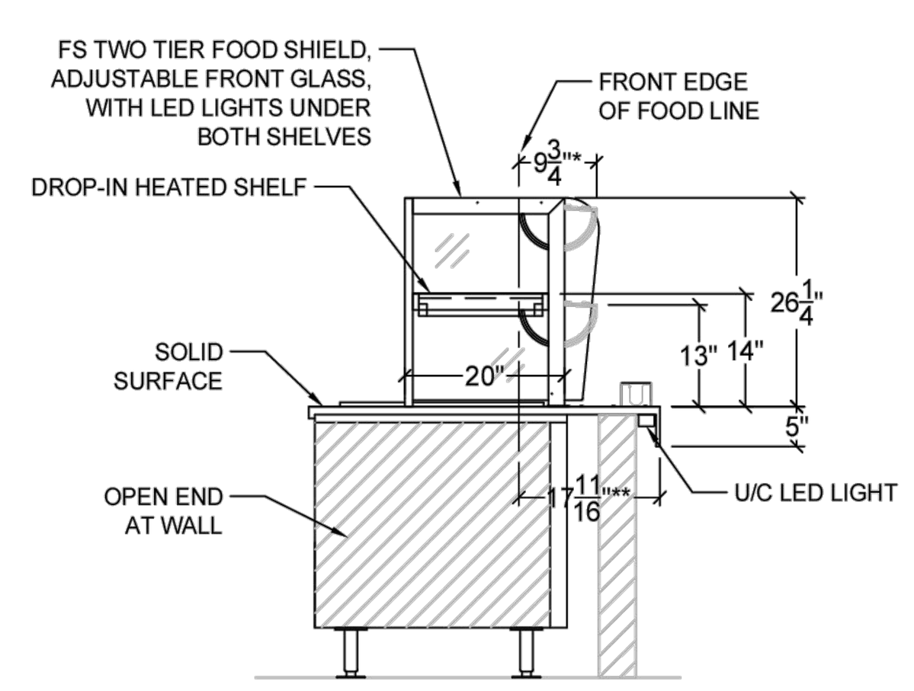


ELEVATION J
REFER TO A/FS9.1 FOR PLAN VIEW FS9.2

ELECTRICAL LOAD CENTER/WIRING NOTE:
EACH COUNTER IS PRE-WIRED TO ALL ELECTRICAL COMPONENTS IN THAT COUNTER WITH THE WIRES BUNDLED IN SEALTITE WITH EXTRA LENGTH TO REACH THE LOAD CENTER. AFTER COUNTERS ARE SET IN PLACE, THE ELECTRICIAN MUST PULL THE LENGTH OF WIRING THRU ADJACENT COUNTERS, LAYING WIRING IN U-CHANNEL UTILITY CHASE (SEE COUNTER SECTION VIEWS), CONNECTING TO THE LOAD CENTER IN COUNTER AS NOTED, WHERE ALL THE CIRCUIT BREAKERS ARE IDENTIFIED. THE ELECTRICIAN MUST HARD WIRE, PER LOCAL CODE, FROM THE POWER SOURCE DIRECTLY TO THE MAIN LUGS INSIDE THE LOAD CENTER.

LOAD BALANCE SCHEMATIC FOR ELECTRICAL LOAD CENTER
INCOMING POWER: 120/208V / 1PH / 100A
QUANTITY 2





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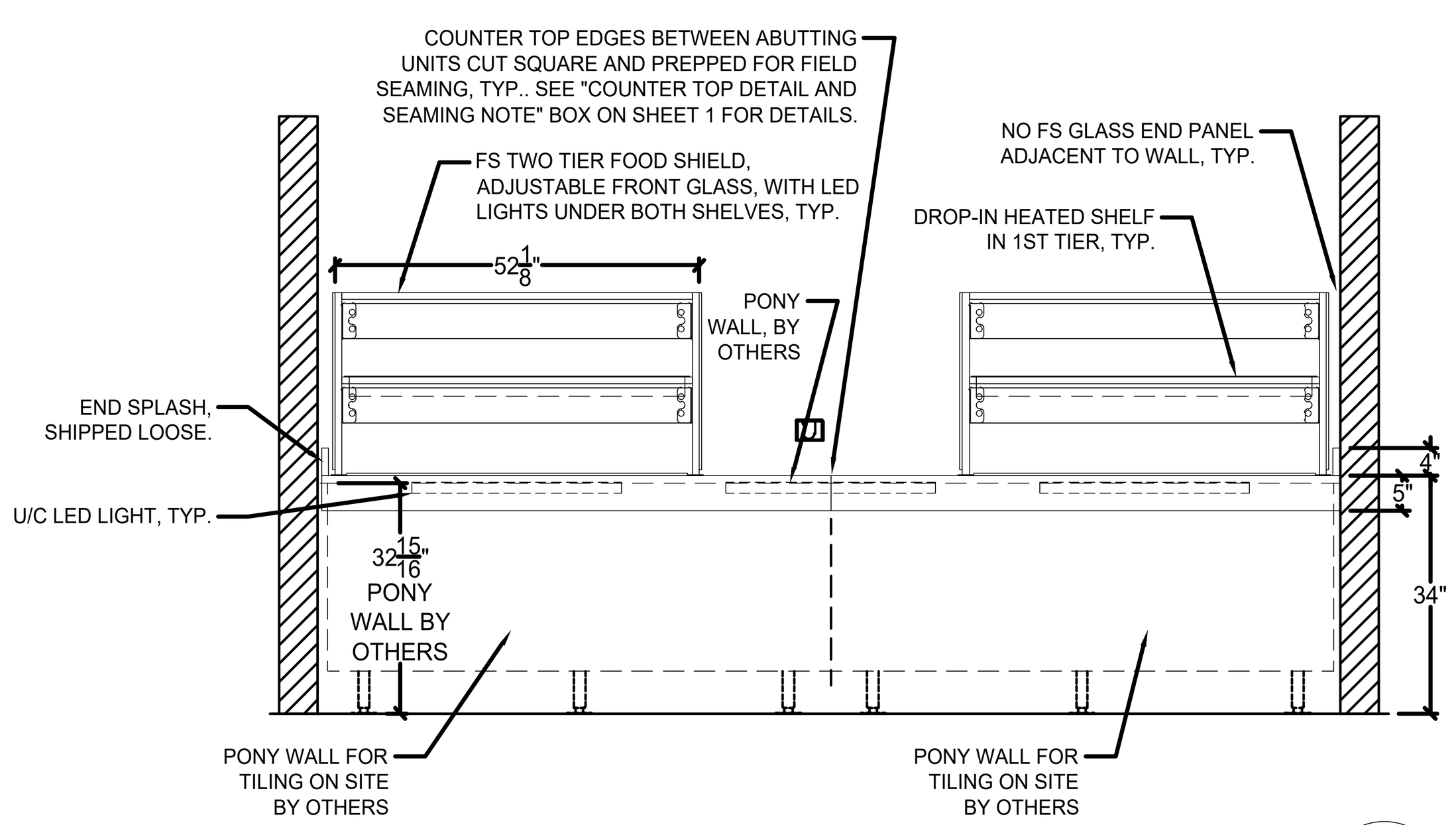

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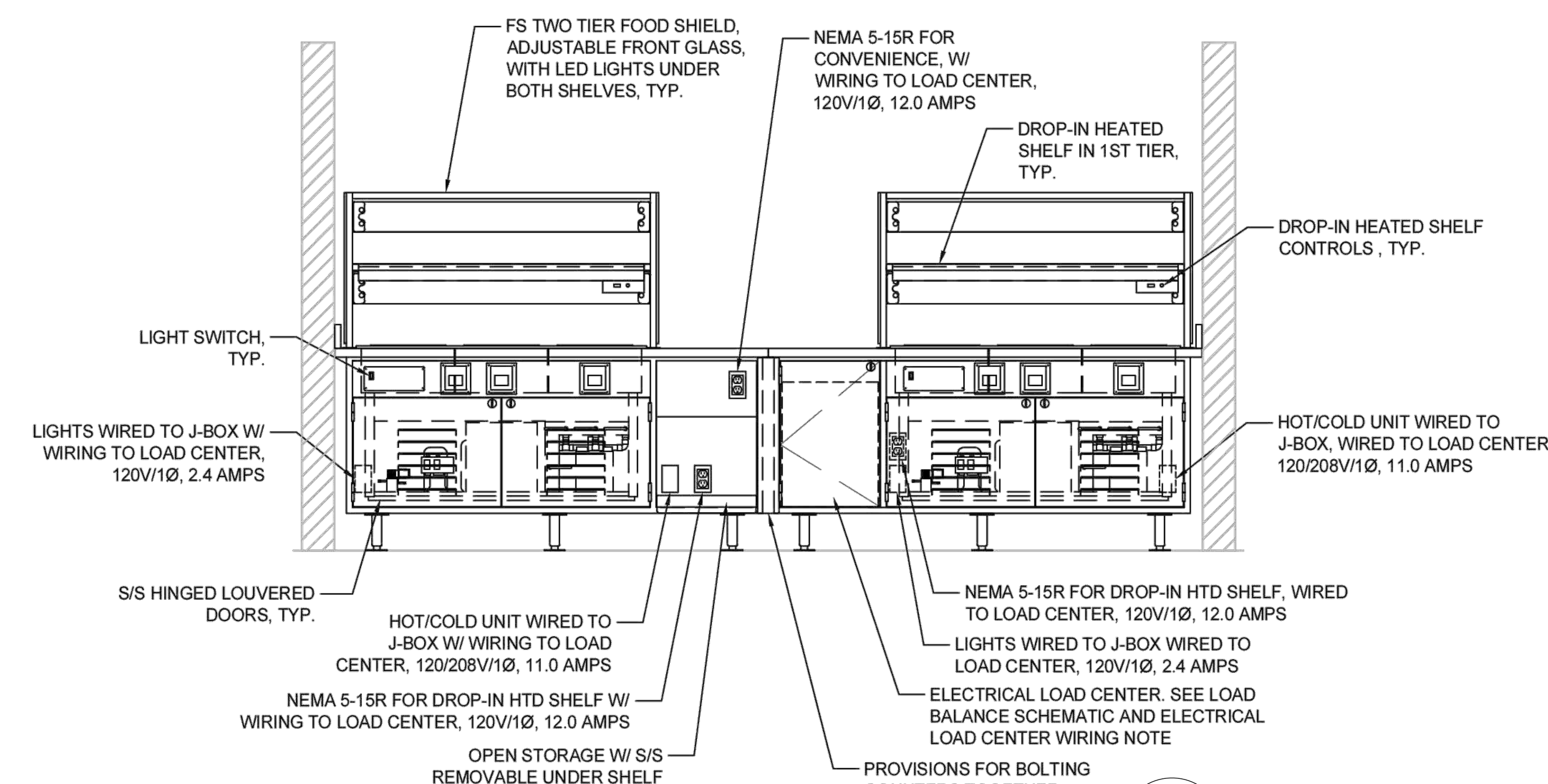

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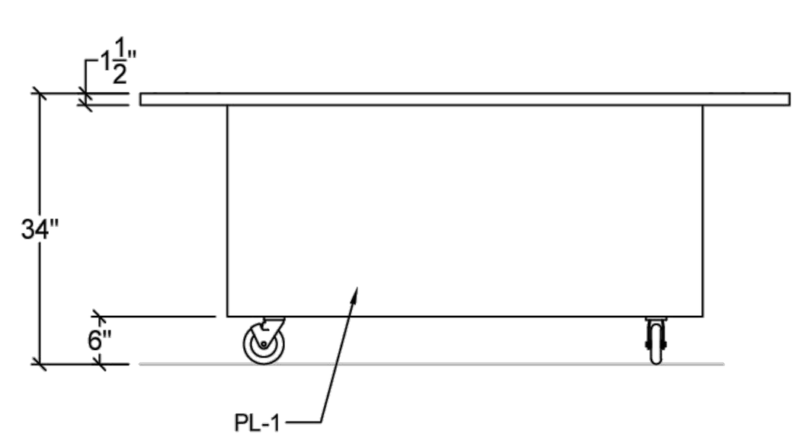

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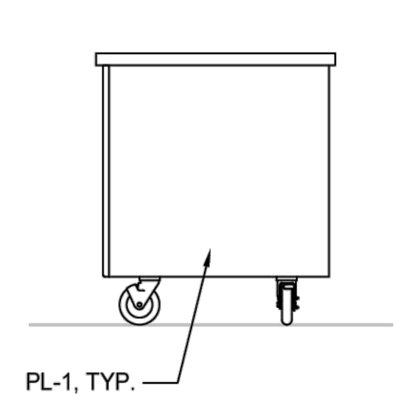

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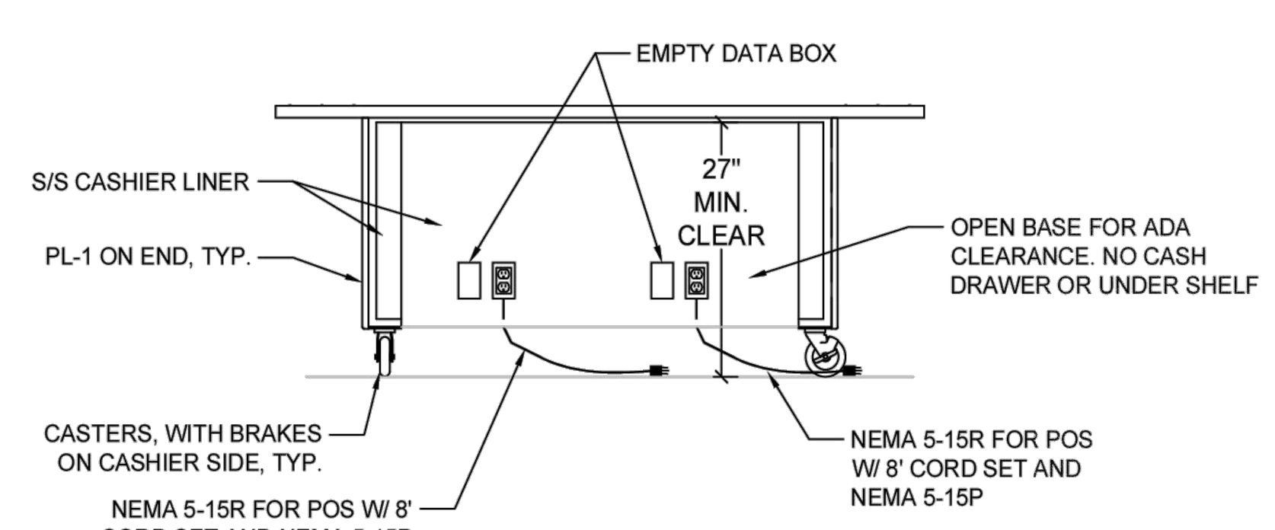

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SHEET NO. 2 Of 2
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DATE: 9/12/24
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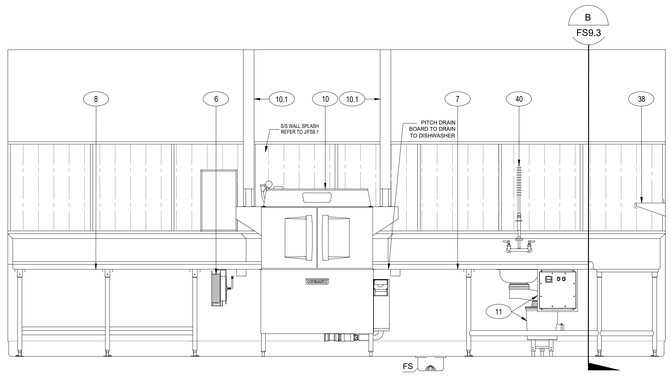

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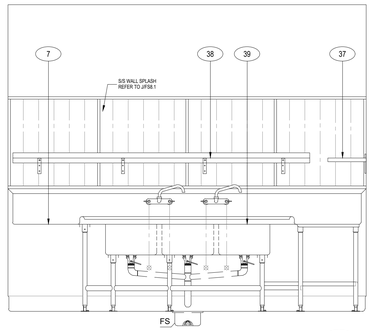
A FS9.3



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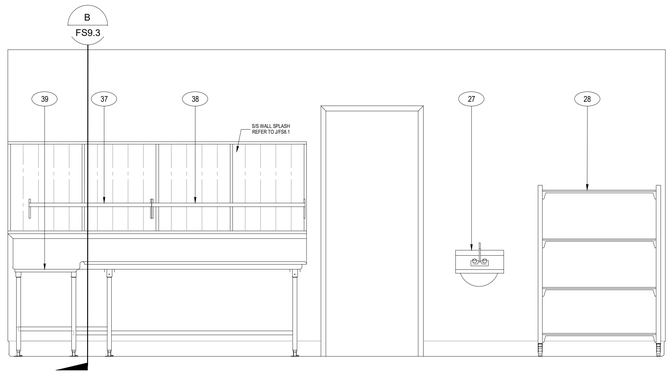

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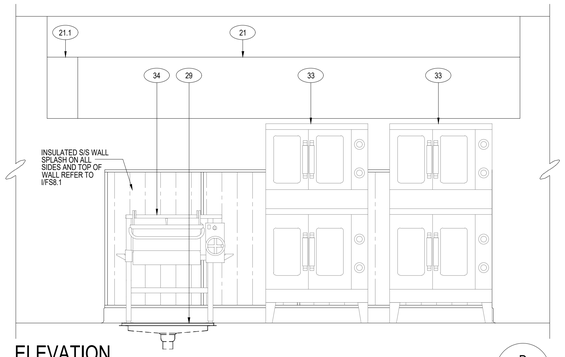

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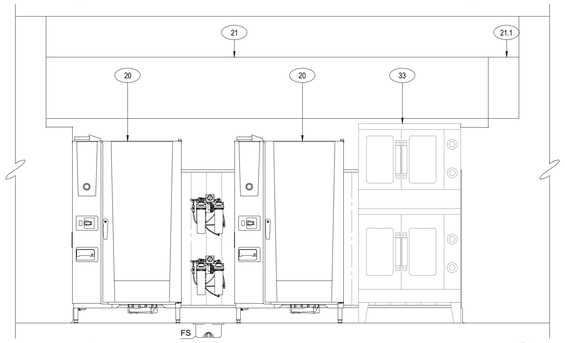

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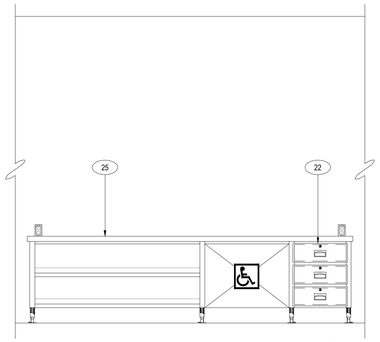
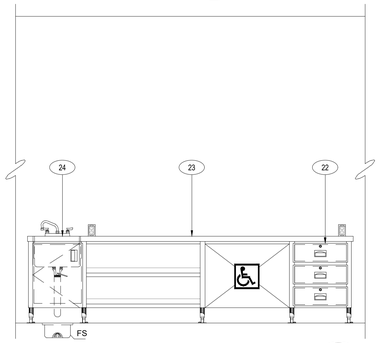


ELEVATION

SCALE : 1/2"=1'-0"

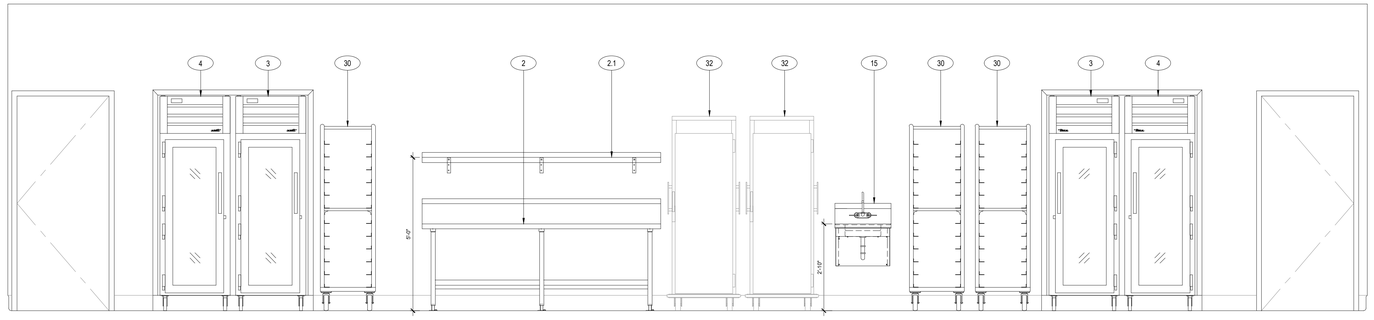
F FS9.3



ELEVATION

SCALE : 1/2"=1'-0"

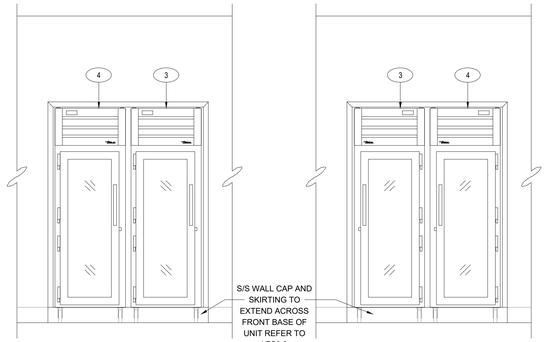
G FS9.3



ELEVATION

SCALE : 1/2"=1'-0"

H FS9.3



ELEVATION

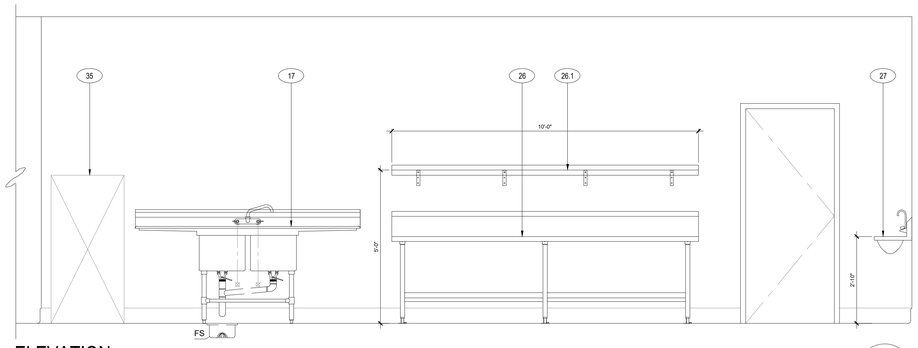
SCALE : 1/2"=1'-0"

1 FS9.3

ELEVATION

SCALE : 1/2"=1'-0"

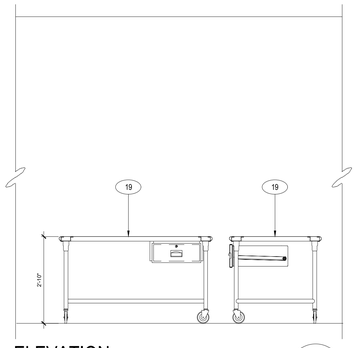
2 FS9.3



ELEVATION

SCALE : 1/2"=1'-0"

I FS9.3



ELEVATION

SCALE : 1/2"=1'-0"

J FS9.3

EQUIPMENT SCHEDULE

ITEM NO	EQUIPMENT CATEGORY	ITEM NO	EQUIPMENT CATEGORY
2	WORK TABLE	24	CHEFS SINK
2.1	WALL SHELF	25	CHEFS COUNTER
3	CABINET, HEATED, PASS-THRU	26	WORK TABLE
4	REFRIGERATOR, PASS-THRU, GLASS DOOR	26.1	WALL SHELF
6	HOSE REEL WTIH CONTROL BOX	27	SINK, HAND, WALL MOUNT
7	SOILED DISHTABLE	28	MOBILE SHELVING
8	CLEAN DISHTABLE	29	FLOOR TROUGH WITH ADA GRATE
10	WAREWASHER, RACK CONVEYOR	30	RACK, PAN
10.1	PANT LEG DUCT	32	MOBILE WAMRING CABINET PLUG / ANCHORAGE LOC.
11	GARBAGE DISPOSER & CONE	33	DOUBLE STACK CONVECTION OVEN ELECTRIC
15	SINK, HAND, WALL MOUNT	34	TILT SKILLET
17	SINK, SCULLERY, 2 COMPARTMENTS	35	ICE MAKER W/ BIN
19	MOBILE WORKTABLE WITH UTENSIL DRAWER	36	TUBULAR WALL MTD. DRAINAGE SHELF
20	OVEN-STEAMER W/ FILTER, COMBI, ELECTRIC	37	TUBULAR WALL MTD. DRAINAGE SHELF
21	EXHAUST HOOD AND S/S WALL LINING	38	WALL SHELF
21.1	FIRE SYSTEM CABINET	39	(3) COMPARTMENT POT SINK
22	THREE TIER DRAWER	40	SPLASH MOUNTED PRE-RINSE FAUCET
23	CHEFS COUNTER		

AGENCY APPROVAL:

REVIEWING AGENCIES STAMP HERE

Sacramento City UNIFIED SCHOOL DISTRICT

HMC Architects

3186-071-000

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916 368 7990 / www.hmcarchitects.com

LICENSED ARCHITECT MICHAEL CHESTER RAHN C-25193 REN. 07/31/25 STATE OF CALIFORNIA

ISSUE

Δ	DESCRIPTION	DATE

AMD FOODSERVICE DESIGN

KEYNOTES

NOTES

FACILITY:

LUTHER BURBANK HIGH SCHOOL
3500 FLORIN RD
SACRAMENTO, CA 95823

PROJECT:

LUTHER BURBANK HIGH SCHOOL CAFETERIA MODERNIZATION

SHEET NAME:

FOODSERVICE EQUIPMENT ELEVATIONS

DSA SUBMITTAL

DATE: **2024.09.13**

CLIENT PROJ NO: **3186071000**

SHEET:

FS9.3