

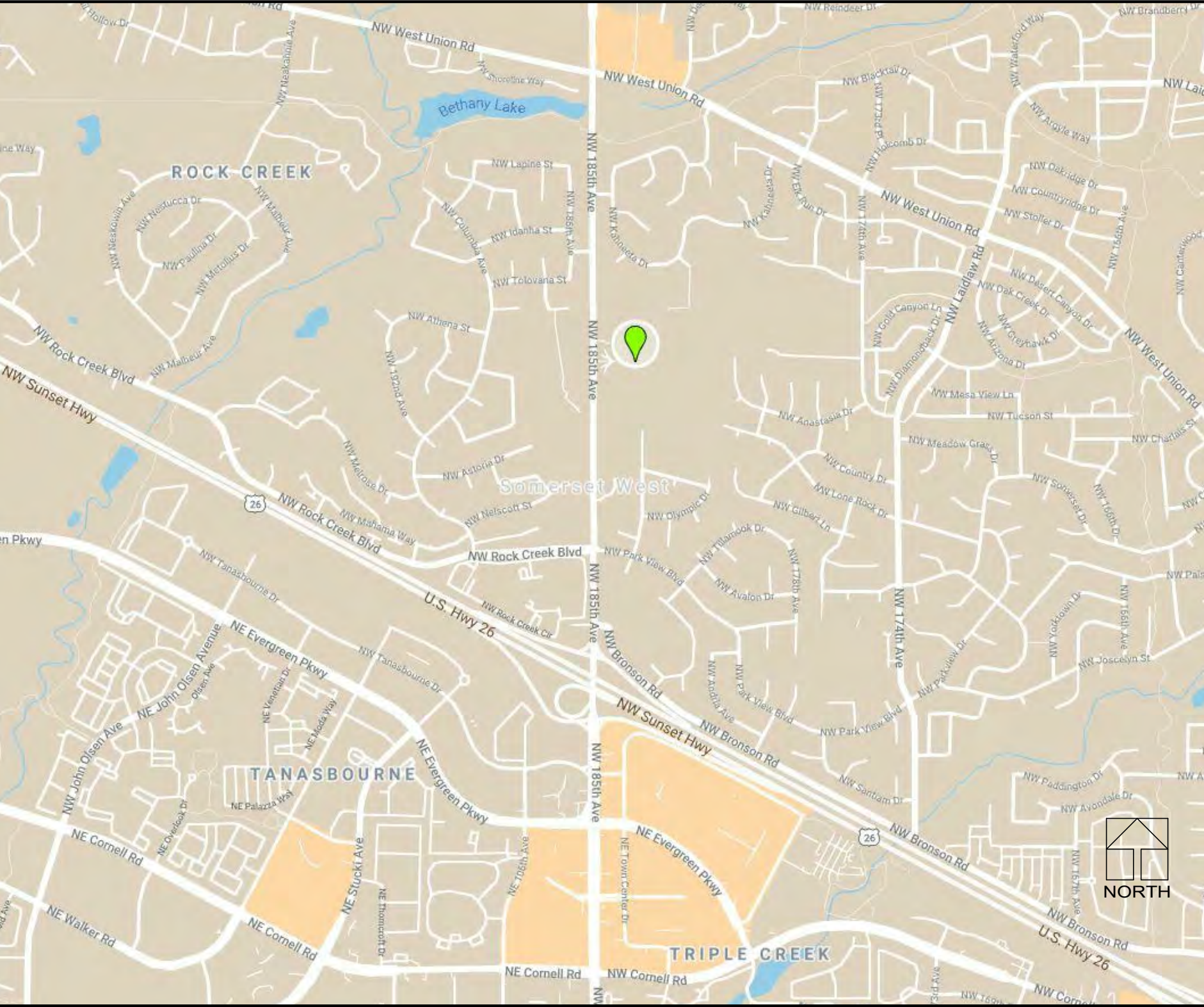
CULINARY CLASSROOM

WESTVIEW HIGH SCHOOL - BEAVERTON SCHOOL DISTRICT

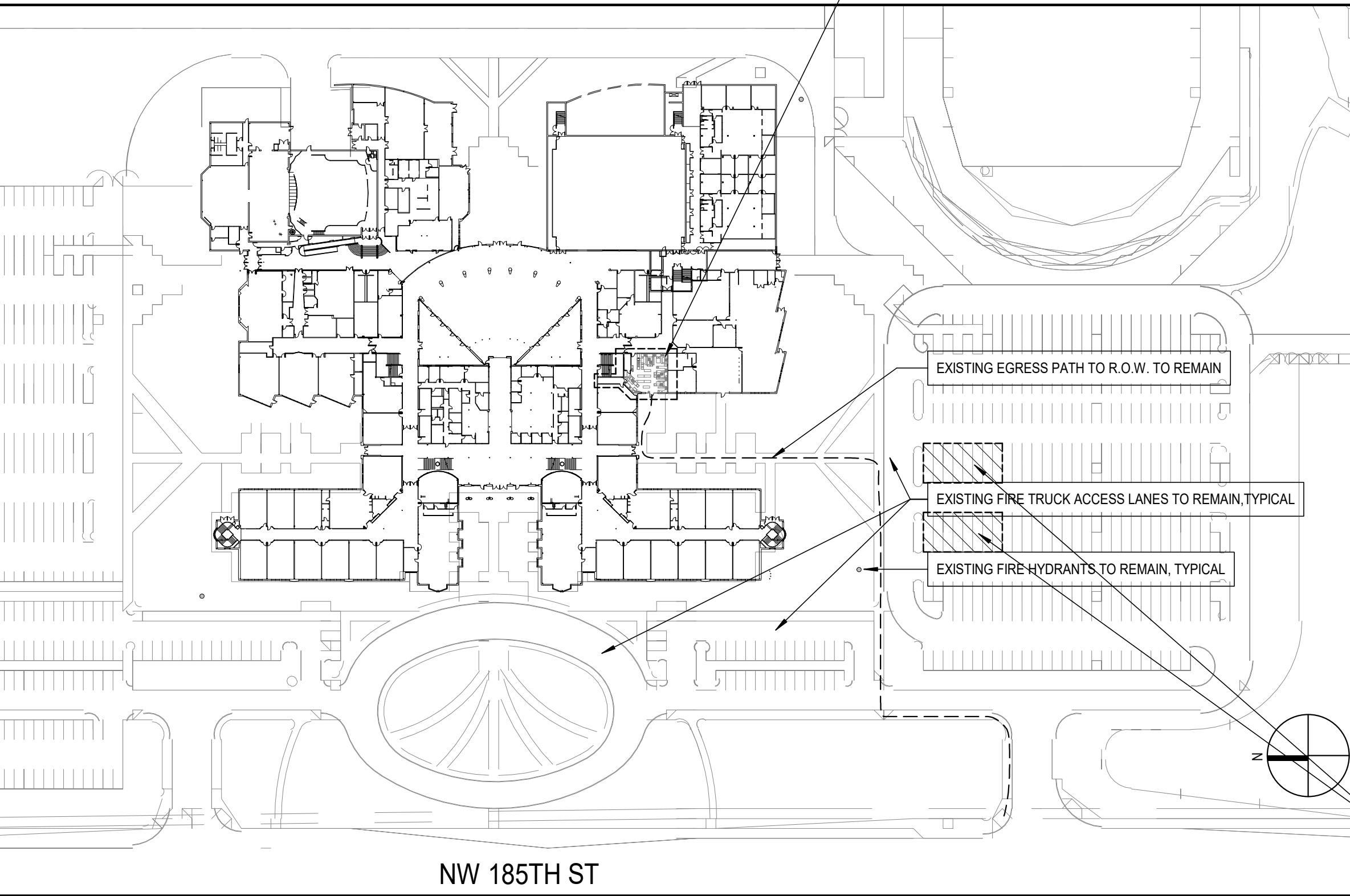
4200 NW 185th AVE,
PORTLAND, OREGON 97229

BID & PERMIT SET
FEBRUARY 18, 2021

VICINITY MAP



OVERALL PLAN



SUMMARY OF WORK

INTERIOR RENOVATION OF EXISTING CULINARY CLASSROOM. DEMOLISH EXISTING RESIDENTIAL RANGES AND THEIR ASSOCIATED HOODS, DUCTWORK & FANS. REPLACE WITH NEW COMMERCIAL KITCHEN EQUIPMENT AND TYPE 1 HOODS. PROVIDE MAKEUP AIR UNIT AND NEW ROOFTOP EXHAUST HOODS. DEMOLISH EXISTING SINKS, COUNTERTOPS AND UNDERCOUNTER CASEWORK AND PROVIDE NEW SINKS/LAVS WITH GREASE INTERCEPTORS. DEMOLISH CEILING, LIGHT FIXTURES, AND FLOORING FINISHES AND REPLACE WITH NEW. ADD CAMERA AT (DEMONSTRATION) STATION #7 TO BE USED WITH NEW CEILING MOUNTED PROJECTOR AND SCREEN.

SITE INFORMATION

SITE ADDRESS: 4200 NW 185TH AVE. PORTLAND OR, 97229
TAX LOT NUMBER: 1N1190002300
SITE AREA SIZE: LOT SIZE: 44.96 ACRES
ZONING DESIGNATION: R-5
SANITATION DISTRICT: CLEAN WATER SERVICES (CWS)
WATER DISTRICT: TUALATIN VALLEY WATER (TVW)
FIRE DISTRICT: TUALATIN VALLEY FIRE & RESCUE (TVFR)

DEFERRED SUBMITTALS

- FIRE SUPPRESSION SYSTEM
- SEISMIC BRACING FOR PERMANENTLY INSTALLED MECHANICAL, ELECTRICAL AND PLUMBING EQUIPMENT
- HVAC SYSTEM (MECHANICAL PERMIT)
- PLUMBING SYSTEM (PLUMBING PERMIT)
- FIRE SPRINKLER (SEE NFPA 13 SPRINKLER SYSTEM AFFIDAVIT FORM FOR ALTERATION OR TI WORK INVOLVING 10 OR LESS HEADS)

OWNER FURNISHED ITEMS

- OFCI OWNER FURNISHED CONTRACTOR INSTALLED ITEMS INCLUDE:
- SOAP DISPENSERS
 - PAPER TOWEL DISPENSERS
 - UNDER-COUNTER DISHWASHER (EXISTING TO BE RELOCATED)
 - STAINLESS STEEL TABLES (EXISTING TO BE REUSED / CASTERS ADDED)

- RELEVANT FF&E ITEMS INCLUDE:
- TEACHER PODIUM (FURNITURE)
 - POTS & PANS, KITCHEN UTENSILS, ETC.
 - STOOLS (FURNITURE)

PROJECT TEAM

OWNER:
BEAVERTON SCHOOL DISTRICT
FACILITIES DEVELOPMENT
16550 SW MERLO ROAD
BEAVERTON, OR 97003
KURT MEEUWSEN 503-356-4552
PATRICK O'HARROW 503-356-4584

ARCHITECTURE & INTERIORS:
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PORTLAND, OR 97204
JANE GOODING 503-200-3966

STRUCTURAL:
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51 UNIVERSITY ST, SUITE 600
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WILLIAM RAGLAND 360-603-9939

MECHANICAL / PLUMBING / FIRE PROTECTION:
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SEATTLE, WA 98101
STEVE REIGH 206-461-6006
GUIDE RUNGAMORNCHAI 206-461-6057

ELECTRICAL & AV:
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110 SW YAMHILL ST
PORTLAND, OR 97204
VITALY SHEVYAKOV 503-575-3458
SEAN AVERY 206-461-6046

FOOD SERVICE:
HALLIDAY ASSOCIATES, INC
656 NW NORWOOD ST
CAMAS, WA 98607
LAURA BOURLAND 360-834-6857

CONTRACTOR:
TBD

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SITE PLAN
AS.1 SITE PLAN

DLR Group
© DLR Group

REGISTERED ARCHITECT
JANE E. GOODING
PORTLAND, OR
6821
OF OREGON

CULINARY CLASSROOM
Westview High School - Beaverton School District
4200 NW 185th Ave, Portland, OR 97229

BID & PERMIT SET
02.18.21
REVISIONS
ADD-01 3/17/21

74-21106-00

COVER SHEET

G0.1

GENERAL ABBREVIATIONS

#	NUMBER	
&	AND	
@	AT	
ADA	AMERICANS WITH DISABILITY ACT	
ADDN	ADDITION OR ADDITIONAL	
AFF	ABOVE FINISHED FLOOR	
AFG	ABOVE FINISHED GRADE	
AHJ	AUTHORITY HAVING JURISDICTION	
ALT	ALTERNATE	
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	
APPROX	APPROXIMATE	
ARCH	ARCHITECTURAL	
BLDG	BUILDING	
BSMT	BASEMENT	
CL	CENTER LINE	
CLG	CEILING	
CM	CENTIMETER	
CONC	CONCRETE	
CONN(S)	CONNECTION(S)	
CONST	CONSTRUCTION	
CONT	CONTINUOUS	
CONTR	CONTRACT(OR)	
CTR	CENTER	
D	DEPTH	
DEG	DEGREE	
DEMO	DEMOLISH OR DEMOLITION	
DIA	DIAMETER	
DIM	DIMENSION	
DIV	SPECIFICATION DIVISION	
DN	DOWN	
DTL	DETAIL	
DWG(S)	DRAWING(S)	
E	EAST	
EA	EACH	
EC	ELECTRICAL CONTRACTOR	
EL	ELEVATION	
ELEC	ELECTRICAL	
ENG	ENGINEER	
EO	EQUAL	
EQUIP	EQUIPMENT	
EQUIV	EQUIVALENT	
EXST	EXISTING	
EXT	EXTERIOR	
FIN	FINISHED	
FL	FLOOR	
FT	FEET	
FUT	FUTURE	
GC	GENERAL CONTRACTOR	
GOVT	GOVERNMENT	
H	HEIGHT	
HORIZ	HORIZONTAL	
HT	HEIGHT	
i.e.	THAT IS	
IBC	INTERNATIONAL BUILDING CODE	
IN	INCH	
INT	INTERIOR	
LB(S)	POUND(S)	
M	THOUSAND	
M	METER	
MAX	MAXIMUM	
MC	MECHANICAL CONTRACTOR	
MECH	MECHANICAL	
MEZZ	MEZZANINE	
MFR	MANUFACTURER	
MIN	MINIMUM	
MISC	MISCELLANEOUS	
MM	MILLIMETER	
N	NORTH	
N/A	NOT APPLICABLE	
NIC	NOT IN CONTRACT	
NTS	NOT TO SCALE	
OC	ON CENTER	
OPP	OPPOSITE	
OVHD	OVERHEAD	
PAR	PARALLEL	
PENT	PENTHOUSE	
PLYWD	PLYWOOD	
QTY	QUANTITY	
REQ(D)	REQUIRE(D)	
REV	REVISION(S)	
RM	ROOM	
RND	ROUND	
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UNEX	UNEXCAVATED	

CODE SUMMARY

SECTION I – GOVERNING CODES

- 2019 OSSC (Structural)
- 2019 OMSC (Mechanical)
- 2019 Oregon Zero Energy Ready Commercial Code (ASHRAE Standard 90.1)
- 2017 OPSC (Plumbing)
- 2017 OESC (Electrical)
- 2019 NFPA 13 (Sprinkler Systems)
- 2019 NFPA 72 (Fire Alarm and Signaling Code)

SECTION II – BUILDING CONSTRUCTION DATA

- Type of Construction = Type II-N, Sprinklered (comparable to today's II-A)
- Existing 1993 building permitted under 1988 Uniform Building Code with 1990 State of Oregon Amendments
- Use and occupancy = Educational occupancy (Group E)
- Maximum allowable height in stories = N/A (no changes)
- Maximum proposed height = N/A (no changes)
- Number of stories for building = 2. This T.I. project is primarily located on the ground floor (Level 1), with a mechanical shaft provided on Level 2 to rooftop.
- Total Floor Area of the Building: Approximately 240,700 sf, divided onto two floors
- 9 separate areas via 2 hour area separation walls, with largest area at 45,700 sf
- Floor Area for this T.I. project: 1260 sf
- Basement = No
- Minimum Required Setbacks to Property Line = N/A (no changes)
- Front: 15 / Side: 5 / Rear: 15 / Street Side: 10

SECTION III – BUILDING OCCUPANCY DATA (No changes)

- Proposing a T.I. without an occupancy change.
- Occupancy classification group(s) on this floor:
- Educational occupancy (Group E)
- T.I. space is 'unseparated' use

SECTION IV – BUILDING AREA DATA ACTUAL AND ALLOWABLE (No changes)

- There is no change in occupancy of the T.I. space from the previous tenant space use. (Skip this section.)

SECTION V – FIRE RESISTIVE BUILDING ELEMENTS (No changes)

- There is no change in occupancy of the T.I. space and there are no modifications to any of the fire resistive components of the building. (Skip this section.)
- Type I hoods shall be designed and installed in accordance with 2019 Oregon Mechanical Specialty Code 507.2. Clearances to combustibles shall conform to 507.2.6.

SECTION VI – BUILDING EXITING (No changes, see adjacent plan.)

- OSSC Table 1004.1.2
- Square Footage of Classroom = 955
- Occupant Load = 48
- Maximum floor area allowance per occupant = 20 net sf
- Number of Exits Required = 1
- Minimum exit width required = 32"
- Exit width provided = Existing to remain: 39" (42" door panel minus door thickness and jamb stop)
- Existing Building has corridors that are 1-hour rated. We do not anticipate any work to these walls or ceilings.
- Emergency exit illumination – See drawing E1.1
- Exit Sign Layout = Existing internally illuminated exit light that is ceiling mounted over existing exterior door to remain (be rehung)

SECTION VII – BUILDING FIRE DETECTION AND SUPPRESSION

- Existing fire alarm system is to remain. No changes.
- Sprinkler system is required. Existing sprinkler system in this area to be adjusted to accommodate current ceiling layout. Sprinkler design is a deferred submittal.
- Type of sprinkler system is an automatic wet sprinkler system compliant with NFPA 13.
- Standpipes are not required.
- Fire department vehicular accesses provided to site remain unchanged. (No changes)
- Fire extinguisher will be provided per plans. It is to be Type K.

SECTION VIII – OCCUPANCY VENTILATION REQUIREMENTS

- Outside air / occupancy ventilation table can be found in the plans at ...
- Specific ventilation required for commercial kitchens include:
- Type I exhaust ducts shall be designed in accordance with 2019 Oregon Mechanical Specialty Code 506.3.

SECTION IX – ENERGY CODE REQUIREMENTS

- Energy Code analysis was conducted using the prescriptive Simplified Approach Option. Form has been upload as part of the AHJ plan review submittal.
- No changes have been made to building components and their associated R / U values.
- Energy forms have been completed for HVAC and Interior Lighting. No changes to envelope or exterior lighting.

SECTION X – HAZARDOUS MATERIALS

- No hazardous chemicals or materials are expected in this project or future use of space.

SECTION XI – ACCESSIBILITY

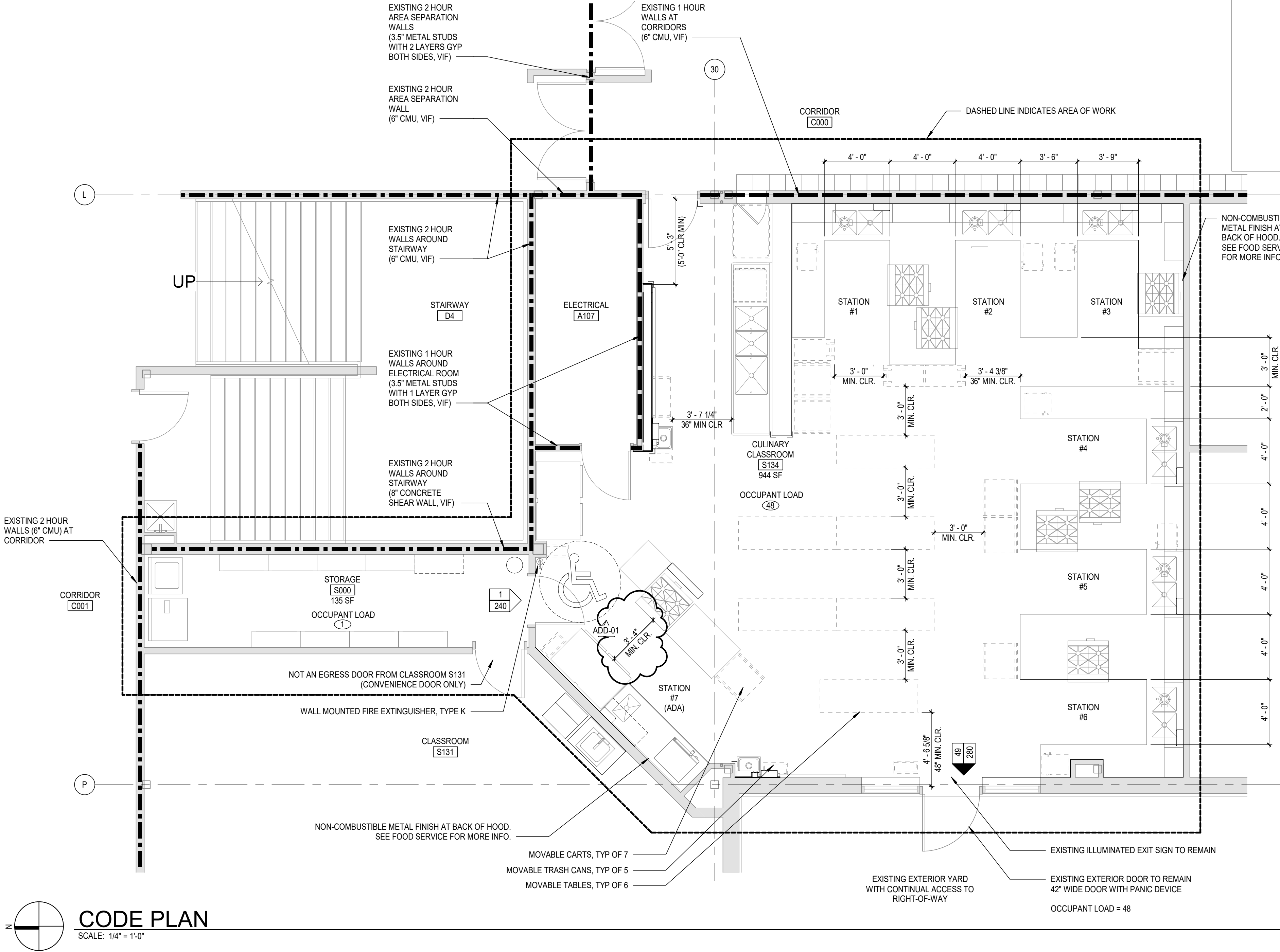
- There is no change to site's exterior route of travel. See diagram on overall (site) plan on Cover Sheet of drawings.
- See adjacent floor plan for interior route of travel.
- See FS drawings for elevations of sinks, counters, etc. Station #7 is identified as the ADA accessible kitchen with undersink knee clearance and 2'-10" counter height.

SECTION XIII – UNDERGROUND AND PADMOUNTED TRANSFORMERS.

- N/A this project.

SECTION XIV – SPECIAL INSPECTION, STRUCTURAL OBSERVATION AND DEFERRED SUBMITTALS

- Special inspections are required for steel installation. See first 'S' sheet, S0.1.
- Structural observation is not required.
- There will be deferred submittal items. See front page of plans for list.



CODE PLAN
SCALE: 1/4" = 1'-0"

SYMBOL LEGEND

- OCCUPANCY LOAD
- COMBINED OCCUPANT LOAD AT A GIVEN DOOR
- TOTAL EXIT CAPACITY OF DOOR
- (THE CAPACITY OF DOORS ARE DETERMINED AS FOLLOWS: CLEAR OPENING WIDTH IN INCHES DIVIDED BY 0.2)
- COMBINED OCCUPANT LOAD AT A GIVEN EXIT DOOR. (SUM EQUALS TOTAL OCCUPANT LOAD)
- TOTAL EXIT CAPACITY OF DOOR
- (THE CAPACITY OF DOORS ARE DETERMINED AS FOLLOWS: CLEAR OPENING WIDTH IN INCHES DIVIDED BY 0.2)

WALL SEPARATION LEGEND

WALL HOURLY RATING
0 = 0 HOUR
1 = 1 HOUR
2 = 2 HOUR

A

B

C

D

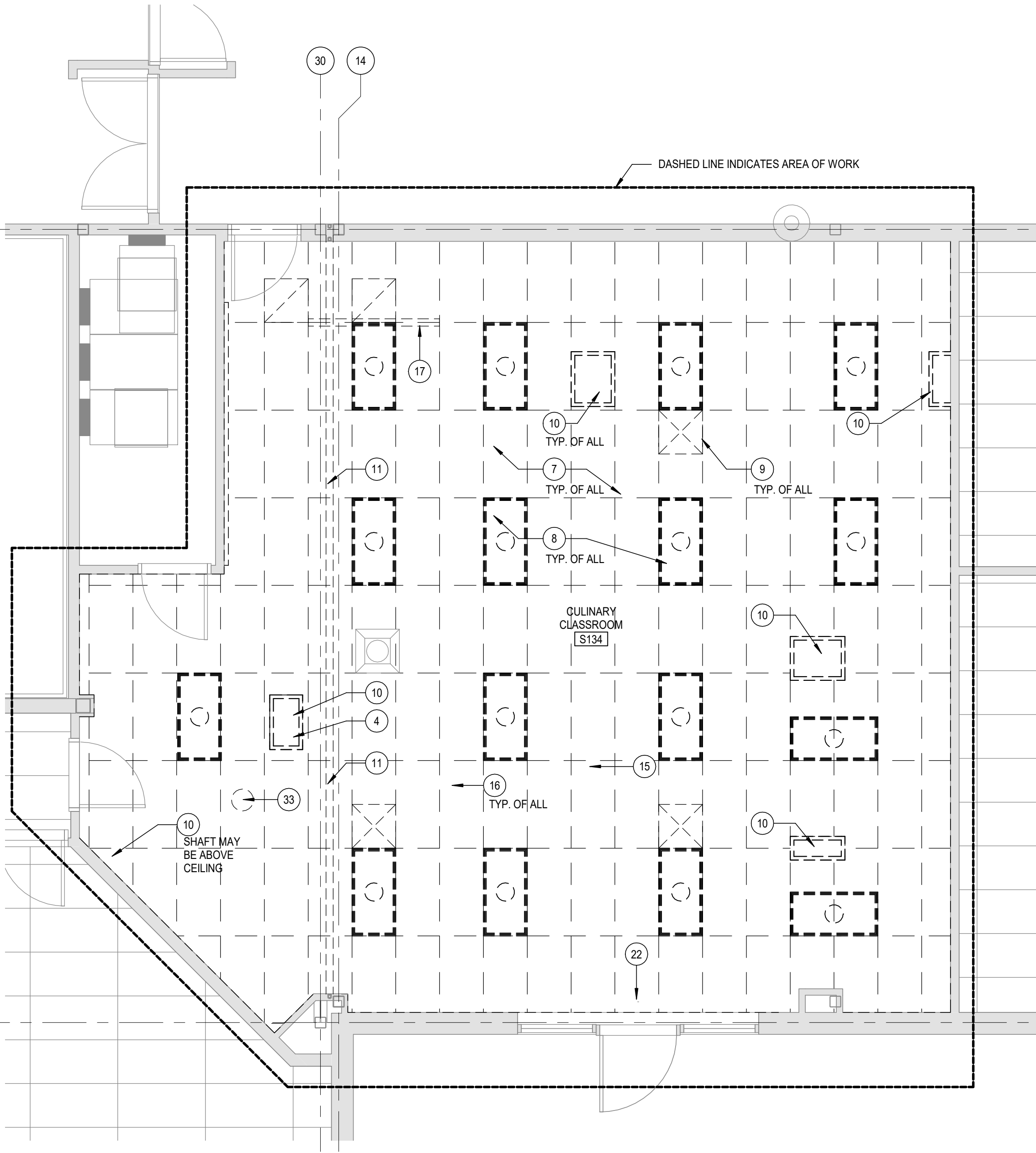
E

1

2

3

4



L

UP

STAIRWAY
[D4]ELECTRICAL
[A107]CORRIDOR
[C000]

28' - 9" VIF

DASHED LINE INDICATES AREA OF WORK

L

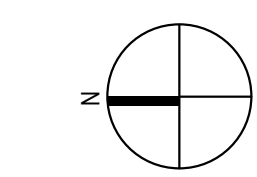
36' - 2 1/2"

STORAGE
[S000]

3' - 0" VIF

CLASSROOM
[S131]

P



CLASSROOM DEMO PLAN

SCALE: 1/4" = 1'-0"

DEMOLITION GENERAL NOTES

DEMOLITION NOTES APPLY TO ALL DEMOLITION SHEETS.

THE CONTRACTOR SHALL:

- COORDINATE ALL DEMOLITION AND PHASING EFFORTS WITH THE ARCHITECT AND OWNER'S REPRESENTATIVE. EVERY EFFORT SHALL BE MADE TO MINIMIZE DISRUPTION OF OWNER'S OPERATIONS. EXCESSIVE NOISE OR VIBRATION SHALL BE PRE-APPROVED AND COORDINATED WITH THE OWNER'S REPRESENTATIVE. IN ALL CASES, PROVISIONS SHALL BE MADE FOR USER'S SAFETY.
- COORDINATE ANY DISRUPTION OF UTILITY SERVICES WITH THE OWNER AND AS SPECIFIED.
- CONSTRUCT TEMPORARY CONSTRUCTION PARTITIONS WITHIN THE EXISTING BUILDING WHICH OFFER A ONE-HOUR ENCLOSURE TO ISOLATE ANY DEMOLITION/CONSTRUCTION WORK FROM THE GENERAL PUBLIC AND AS DEEMED NECESSARY BY THE OWNER AND CODE OFFICIAL HAVING JURISDICTION. COORDINATE LOCATIONS WITH THE OWNER AND MAINTAIN MEANS OF EGRESS THROUGHOUT THE WORK.
- MAINTAIN A SECURE, WEATHER-TIGHT ENCLOSURE AT ALL TIMES.
- VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
- REMOVE IN THEIR ENTIRETY ALL EXISTING WALLS, DOORS, MILLWORK, PLUMBING FIXTURES, CEILINGS, SOFFITS, MARKERBOARDS, AND OTHER ITEMS, AS REQUIRED TO EXECUTE THE DEMOLITION/CONSTRUCTION WORK DESCRIBED BY THE DRAWINGS.
- THE OWNER SHALL RESERVE THE RIGHT TO SALVAGE ANY MATERIALS.
- PROVIDE PROTECTION FOR ALL EXISTING BUILDING MATERIALS AND EQUIPMENT FROM DAMAGE DUE TO ANY DEMOLITION OR CONSTRUCTION-RELATED INCIDENT PERFORMED UNDER THIS CONTRACT.
- REPAIR OR REPLACE ITEMS THAT ARE DAMAGED AS A RESULT OF DEMOLITION OR CONSTRUCTION TO MATCH EXISTING FINISH AND/OR CONDITION.
- EXISTING MATERIALS SHALL NOT BE REUSED UNLESS NOTED OTHERWISE OR AS AUTHORIZED BY ARCHITECT.
- VERIFY AND MAINTAIN THE LOCATION OF EXISTING POWER, COMMUNICATION AND DATA CABLES TO PREVENT INTERRUPTION OF THEIR SERVICE.
- PATCH FLOOR, WALL AND CEILING PENETRATIONS RESULTING FROM REMOVAL OR RE-ROUTING OF NEW OR EXISTING PIPING, DUCTWORK, CONDUIT, AND OTHER ITEMS, AS REQUIRED TO MAINTAIN FIRE-RESISTANCE-RATED SEPARATIONS. FINISH AS REQUIRED FOR NEW OR EXISTING ADJACENT SURFACES.
- CAP ALL DISCONNECTED MECHANICAL PIPING LINES WITHIN THE WALL OR FLOOR. PATCH AND FINISH AS REQUIRED TO MATCH NEW OR EXISTING ADJACENT SURFACES.
- SEE MECHANICAL AND ELECTRICAL DRAWINGS AND NOTES FOR FURTHER EXISTING AND SCOPE OF WORK.
- AVOID ANY DISTURBANCE OF SOILS WITHIN THE ZONE OF INFLUENCE AROUND EXISTING FOOTINGS AND FLOOR SLABS.

SHEET NOTES

- SALVAGE DISPOSAL THIS SINK AND TURN OVER TO OWNER.
- DEMO COUNTER AND CASEWORK BELOW
- DEMO SINK. SEE PLUMBING FOR MORE INFO.
- DEMO DEMONSTRATION MIRROR AND FRAME ABOVE STOVE
- DEMO RESIDENTIAL RANGE AND OVEN
- SALVAGE UNDERCOUNTER DISHWASHER AND REINSTALL IN FINISHED PROJECT. SEE FOOD SERVICE AND PLUMBING DRAWINGS FOR RELOCATION INFO.
- DEMO ACT CEILING AND SUSPENSION GRID THROUGHOUT ROOM.
- DEMO RECESSED LIGHT FIXTURES THROUGHOUT ROOM
- DEMO CEILING SUPPLY AND RETURN GRILLES, TYP. SEE MECH.
- DEMO RESIDENTIAL HOODS AND EXHAUST SHAFTS, TYP.
- DEMO CEILING CONTROL JOINT COVER. (WALL COVERS TO REMAIN.)
- DEMO HORIZONTAL BLINDS
- DEMO WHITEBOARD AND MAP. SALVAGE FLAG AND RETURN TO OWNER.
- REMOVE AND REINSTALL CEILING MOUNTED WAP
- PROTECT EXISTING SPRINKLER HEADS AND PIPING. SEE FP DRAWINGS.
- DEMO CEILING HUNG PROJECTOR SCREEN
- DEMO COUNTER AND CASEWORK, ON CASTERS
- REMOVE AND REINSTALL WALL MOUNTED FIRE STROBE
- DEMO CORNER GUARD
- DEMO 7' TALL SHELVING CASEWORK
- REMOVE AND REINSTALL CEILING MOUNTED EXIT LIGHT
- DEMO UPPER SHELVING (ONLY WHERE INDICATED)
- SALVAGE AND REINSTALL ONE SECTION OF UPPER SHELVING
- PROTECT EXISTING FIRE ALARM PULL
- REMOVE AND REINSTALL WALL MOUNTED FIRE EXTINGUISHER
- PROTECT EXISTING UPPER CABINETS, U.N.O.
- (INDICATED BY HATCH) SAWCUT EXISTING SLAB-ON-GRADE TO INSTALL NEW PIPING. SEE PLUMBING DRAWINGS.

- DEMO VCT FLOORING THROUGHOUT ROOM
- DEMO RUBBER WALL BASE THROUGHOUT ROOM
- DEMO BASE OF GYPSUM WALL BOARD FOR NEW CEMENT BOARD PER 4B/A7.1
- SALVAGE AND REINSTALL PA SPEAKER (CEILING MOUNTED)
- SALVAGE AND REINSTALL METAL LOCKERS IN HALLWAY UPON COMPLETION OF WORK. PATCH/REPLACE VCT FLOORING AFTER SAWCUTTING. SEE A1.1 AND PLUMBING DRAWINGS.
- SALVAGE AND REINSTALL ICE MAKER IN ADJACENT ROOM. SEE PLUMBING FOR MORE INFO.
- SALVAGE 6" FACE BRICK VENEER AT AREAS OF NEW EXTERIOR WALL CLEANOUTS. SEE PLUMBING FOR MORE INFO.

DEMOLITION SALVAGE LIST

THE CONTRACTOR SHALL REMOVE AND SALVAGE (TURN OVER TO OWNER):

- LIGHT FIXTURES, TYP
- DISPOSAL (x1)

THE CONTRACTOR SHALL REMOVE AND REINSTALL:

- WAP
- EXIT LIGHT FIXTURE
- WALL MOUNTED ANALOG CLOCK
- UNDERCOUNTER DISHWASHER
- WALL MOUNTED FIRE EXTINGUISHER
- UNDERCOUNTER ICE MAKER



CULINARY CLASSROOM

Westview High School - Beaverton School District

4200 NW 185th Ave, Portland, OR 97229

BID & PERMIT SET

02.18.21

REVISIONS

ADD-01 3/17/21

74-21106-00

DEMO PLANS

AD1.1

A

B

C

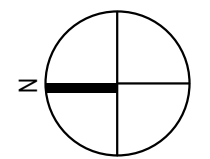
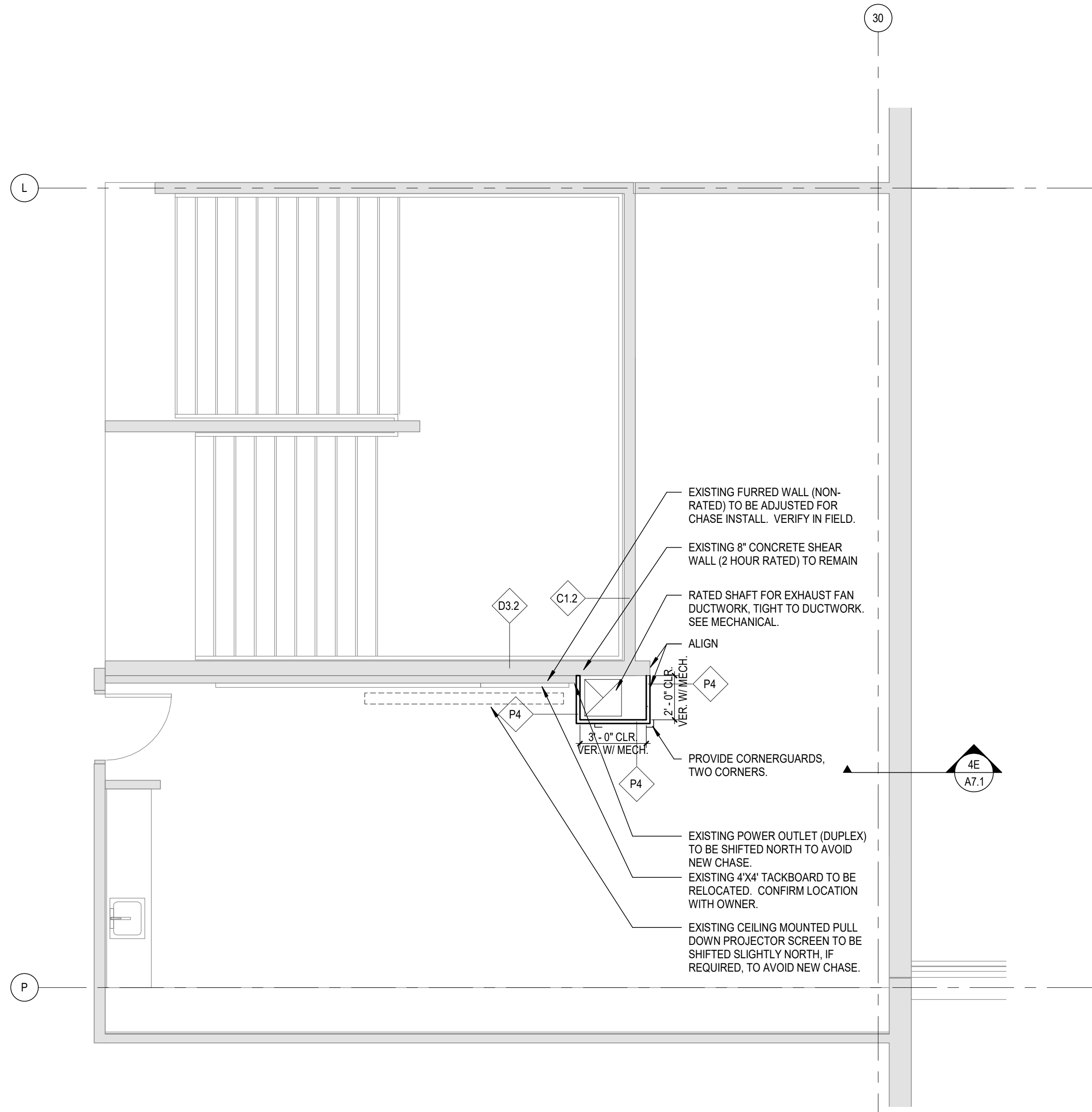
D

E

1

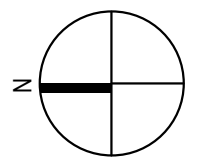
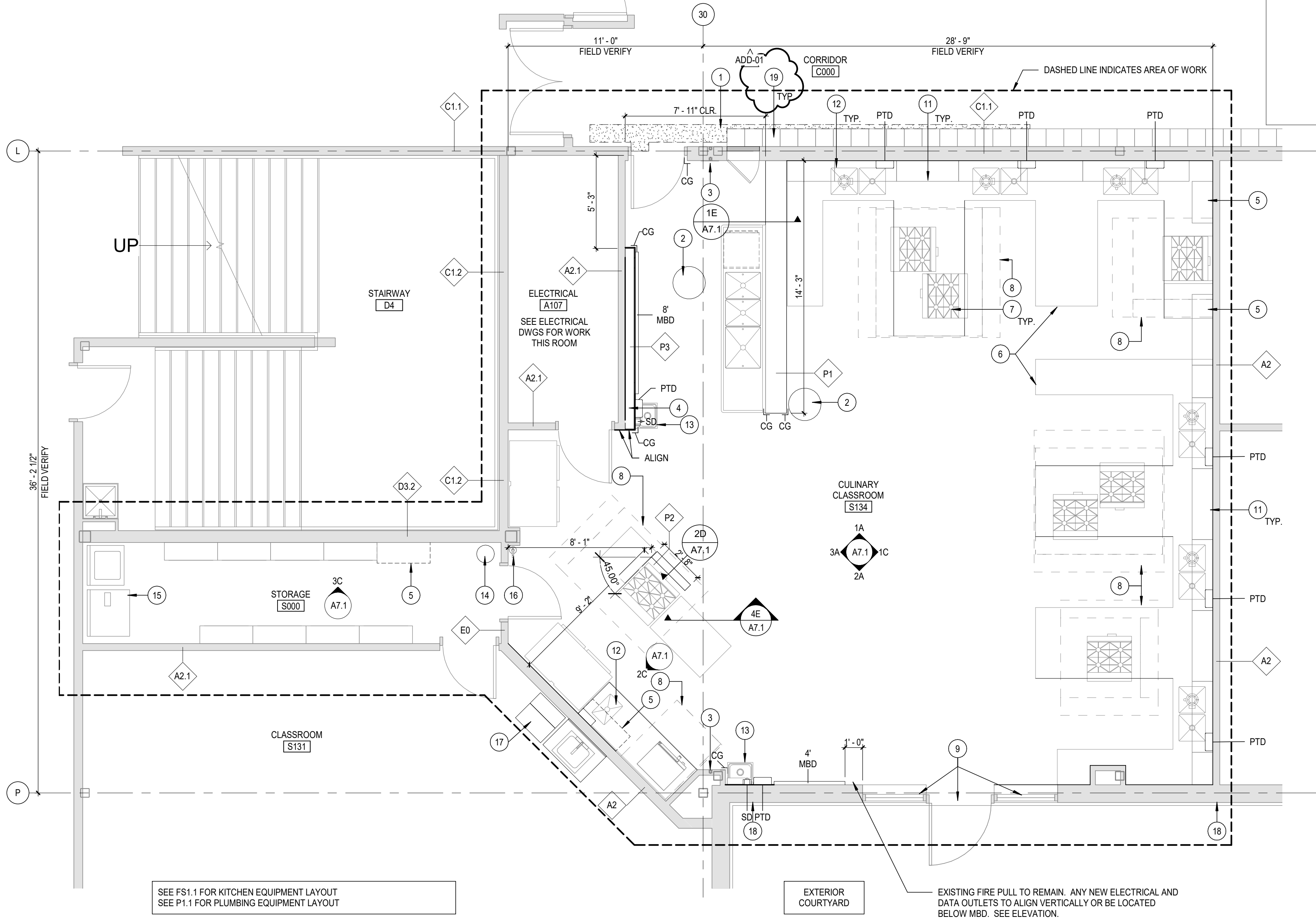
2

3



SECOND LEVEL FLOOR PLAN - MECHANICAL SHAFT

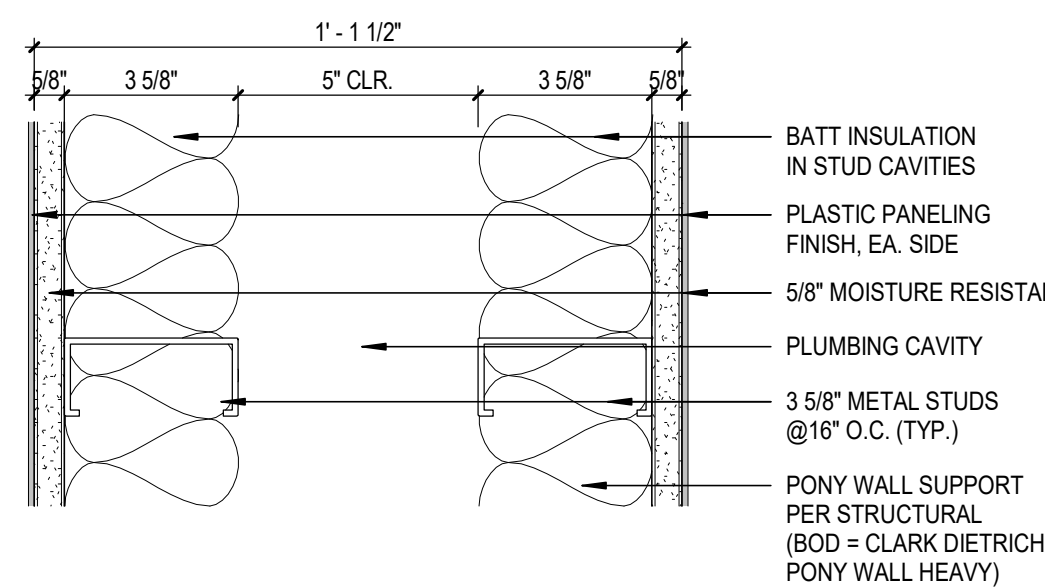
SCALE: 1/4" = 1'-0"



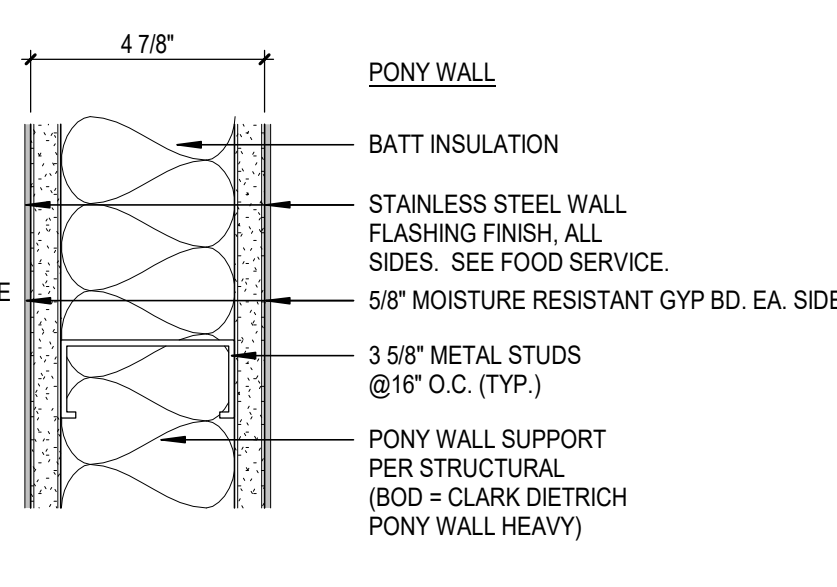
FIRST LEVEL FLOOR PLAN - CULINARY CLASSROOM

SCALE: 1/4" = 1'-0"

P1 WALL ASSEMBLY: PONY WALL W/ PLUMBING CHASE



P2 WALL ASSEMBLY: PONY WALL



EXISTING WALL ASSEMBLY LIST

FIELD VERIFY ALL EXISTING PARTITION TYPES. SEE ADJACENT DRAWINGS FOR NEW WALL ASSEMBLY TYPES

A2: 3 1/2\"/>

A2.1: SAME AS A1, BUT RATED 1 HOUR

C1.1: 6\"/>

C1.2: 6\"/>

D3.2 8\"/>

2 HOUR

NOTE AT EXISTING C1.1, C1.2, AND D3.2 WALLS: ALTHOUGH NO THROUGH PENETRATIONS ARE ANTICIPATED THIS PROJECT IN EXISTING RATED WALLS, WHERE A PENETRATING ITEM IS A MAXIMUM 6-INCH NOMINAL DIAMETER AND THE AREA OF THE OPENING THROUGH THE WALL DOES NOT EXCEED 144 SQUARE INCHES, CONCRETE, GROUT, OR MORTAR IS PERMITTED WHERE INSTALLED THE FULL THICKNESS OF THE WALL OR THE THICKNESS REQUIRED TO MAINTAIN THE FIRE-RESISTANCE RATING, PER OSSC 714.4.1.

NOTE AT P4: ALTHOUGH NO THROUGH PENETRATIONS ARE ANTICIPATED THIS PROJECT IN NEW RATED WALLS, IF REQUIRED, THROUGH PENETRATIONS SHALL BE PROTECTED USING SYSTEMS INSTALLED AS TESTED IN THE APPROVED FIRE-RESISTANCE RATED ASSEMBLY PER OSSC 714.4.1.2. ANY PENETRATIONS SHALL BE UL APPROVED BY THE "MANUFACTURER-SPECIFIC" SYSTEM COMPATIBLE WITH THE INSTALLED FIRE-RATED ASSEMBLY SYSTEM.

GENERAL ARCHITECTURAL NOTES

- ALL INTERIOR STUD WALLS SHALL EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK ABOVE UNLESS NOTED OTHERWISE. SEE REFLECTED CEILING PLAN NOTES
- PROVISIONS SHALL BE MADE AT ALL FULL HEIGHT NON-BEARING WALLS FOR 1-INCH VERTICAL MOVEMENT OF THE BUILDING STRUCTURE WITHOUT TRANSFER OF COMPRESSIVE LOADS TO WALL
- PROVIDE FIRESTOPPING AT RATED WALLS (INCLUDING EXISTING) TO MEET FIRE RATING OF RESPECTIVE WALLS. SEE DETAILS ON SHEET A10.1 AND SPEC 078413
- FURNISH AND INSTALL FIRE-TREATED WOOD BLOCKING IN METAL STUD PARTITIONS FOR THE PROPER ANCHORAGE OF ALL WALL ATTACHED ITEMS, I.E. TOILET ACCESSORIES, CASEWORK, MILLWORK, WALL-MOUNTED FIXTURES, MARKER BOARDS, TACK BOARDS, AUDIO VISUAL BRACKETS, AND OTHER WALL ATTACHED ITEMS. SEE DETAILS ON A10.1
- "MBD" AND "TBD" INDICATE MARKER BOARDS AND TACK BOARDS ON PLANS. THE LENGTH PRECEDES THE DESIGNATION (EXAMPLE 16\"/>

SYMBOL LEGEND

CG = CORNERGUARD/CHANNEL GUARD PER SPEC 114000 & FS1.1
MBD = MARKERBOARD
PTD = PAPER TOWEL DISPENSER
SD = SOAP DISPENSER
TBD = TACKBOARD

= WALL TYPE (SEE INFO TO THE LEFT ON THIS SHEET)

= SHEET NOTE (SEE LIST TO THE RIGHT ON THIS SHEET)

FINISH SCHEDULE FOR CULINARY CLASSROOM

WALLS: SEMI-GLOSS PAINT, ALL WALLS. SEE SPEC 089123.
PLASTIC PANELING AT WET WALLS AS SHOWN ON ELEVATIONS. SEE SPEC 066400.
SEE FOOD SERVICE DWGS FOR INFO ON STAINLESS STEEL WALL FINISH (ITEM #16) LOCATED BEHIND WALL ADJACENT HOODS AND AT STATION #7 PONY WALL

CEILING: ACOUSTIC PANEL CEILING AS SHOWN ON REFLECTED CEILING PLAN SEE SPEC 095113.

FLOORS: RESILIENT SHEET FLOORING WITH INTEGRAL COVE BASE SEE SPEC 098516.

SHEET NOTES

- HATCH INDICATES APPROXIMATE EDGE OF VCT PATCH / REPLACEMENT (TO MATCH EXISTING). SEE PLUMBING AND DEMO FOR SAW CUT WORK.
- GREASE INTERCEPTOR TOP PANEL, FLUSH WITH FLOORING. SEE P1.1.
- WALL ALUMINUM SEISMIC JOINT COVER TO REMAIN
- FURRED WALL FOR PLUMBING. AVOID PENETRATING EXISTING WALL.
- SALVAGE AND REINSTALL EXISTING UPPER SHELVING TO ACCOMMODATE NEW WORK. SEE ELEVATIONS.
- LOCATION OF NEW COUNTERS. SEE FOOD SERVICE DRAWINGS.
- COOKING RANGE, TYP. OF 7. SEE FOOD SERVICE DRAWINGS.
- LOCATION OF EXHAUST HOOD ABOVE. SEE FOOD SERVICE DRAWINGS.
- ROLLER SHADES ON ALL EXTERIOR WINDOWS. SEE DETAIL 4B/A10.1 AND SPEC 122413.
- EXISTING UPPER SHELVING TO REMAIN, U.N.O. APPLY FRESH PAINT TO ALL EXPOSED SIDES.
- PREP SINK, TYP. OF 7. SEE FOOD SERVICE & PLUMBING DRAWINGS.
- HAND SINK WITH SIGNAGE. SEE ELEVATIONS AND FOOD SERVICE DRAWINGS.
- EXISTING INSULATED PIPE TO REMAIN. COORDINATE WITH NEW EXHAUST DUCTWORK AND SHAFT ABOVE.
- EXISTING WASHER/DRYER TO REMAIN. INSTALL OFCI RACK FOR STACKED W/D AND ADJUST EXISTING EXHAUST CONNECTION TO ACCOMMODATED STACKED CONFIGURATION.
- EXISTING FIRE EXTINGUISHER AND WALL MOUNT BRACKET TO REMAIN.
- EXISTING ICE MAKER TO BE RELOCATED. SEE PLUMBING FOR MORE INFO.
- EXTERIOR WALL CLEANOUT. PATCH AND SEAL EXISTING ENVELOPE AS REQUIRED TO PREVENT AIR AND WATER INTRUSION. SEE PLUMBING FOR MORE INFO.
- REINSTALL SALVAGED LOCKERS, INCLUDING BASE AND RUBBER WALL BASE



CULINARY CLASSROOM
Westview High School - Beaverton School District

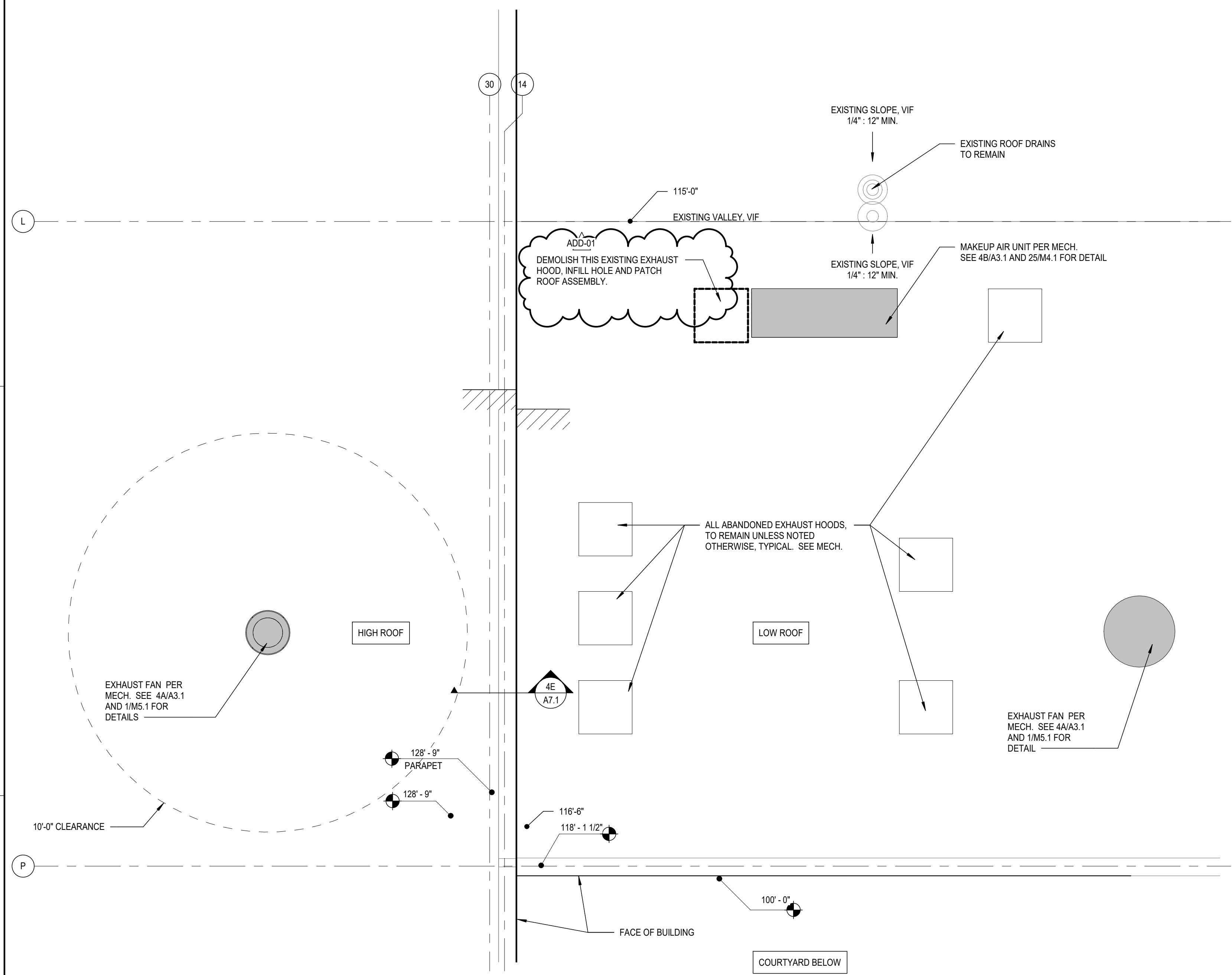
4200 NW 185th Ave, Portland, OR 97229

BID & PERMIT SET
02.18.21
REVISIONS
ADD-01 3/17/21

74-21106-00

FLOOR PLANS

A1.1



A

B

C

D

E

1

1A INTERIOR ELEVATION - EAST

SCALE: 1/4" = 1'-0"

1C INTERIOR ELEVATION - SOUTH

SCALE: 1/4" = 1'-0"

1E WALL SECTION - 3 COMP SINK PONY WALL

SCALE: 1" = 1'-0"

2

2A INTERIOR ELEVATION - WEST

SCALE: 1/4" = 1'-0"

2C INTERIOR ELEVATION - STATION 7

SCALE: 1/4" = 1'-0"

2D WALL SECTION - STATION 7 PONY WALL

SCALE: 1" = 1'-0"

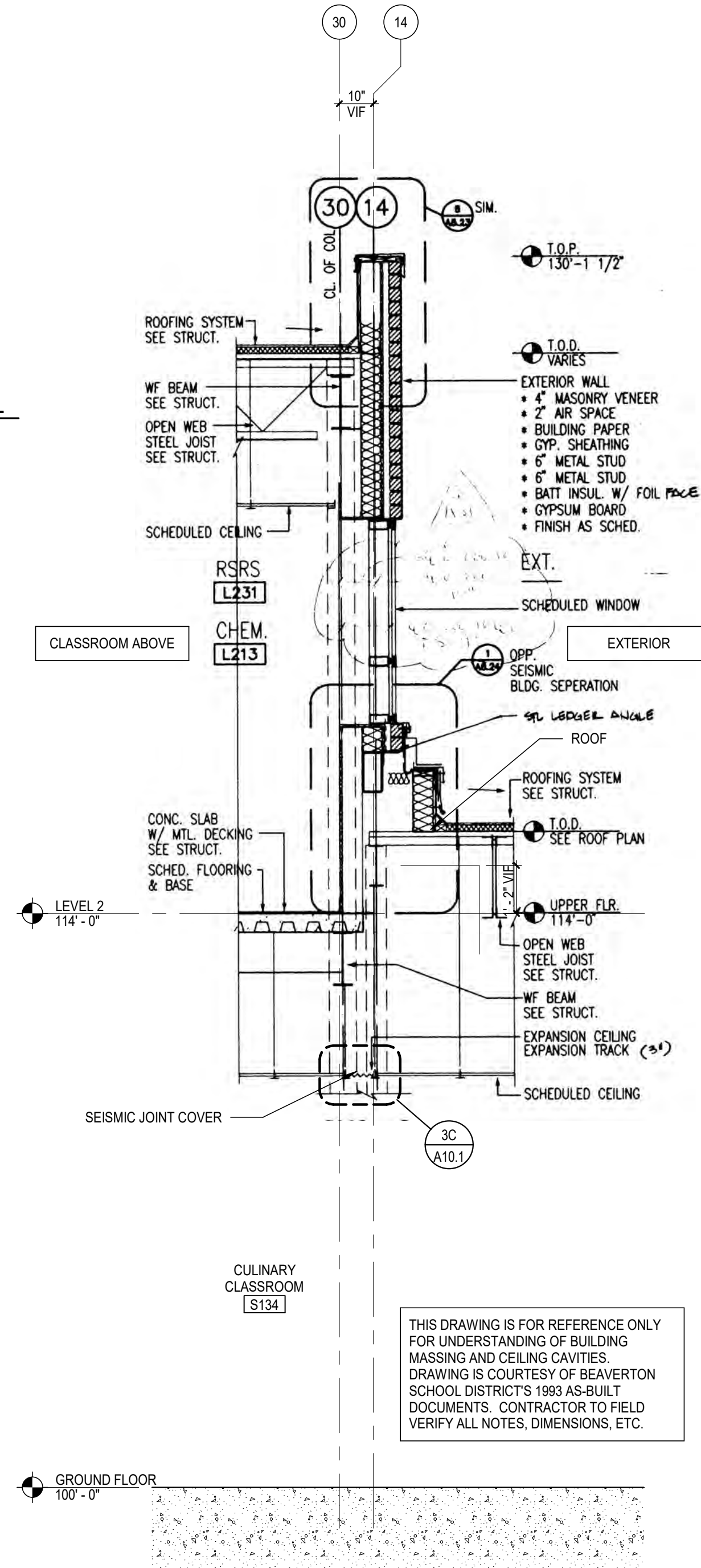
3

3A INTERIOR ELEVATION - NORTH

SCALE: 1/4" = 1'-0"

3C INTERIOR ELEVATION - STORAGE EAST

SCALE: 1/4" = 1'-0"



A

B

C

D

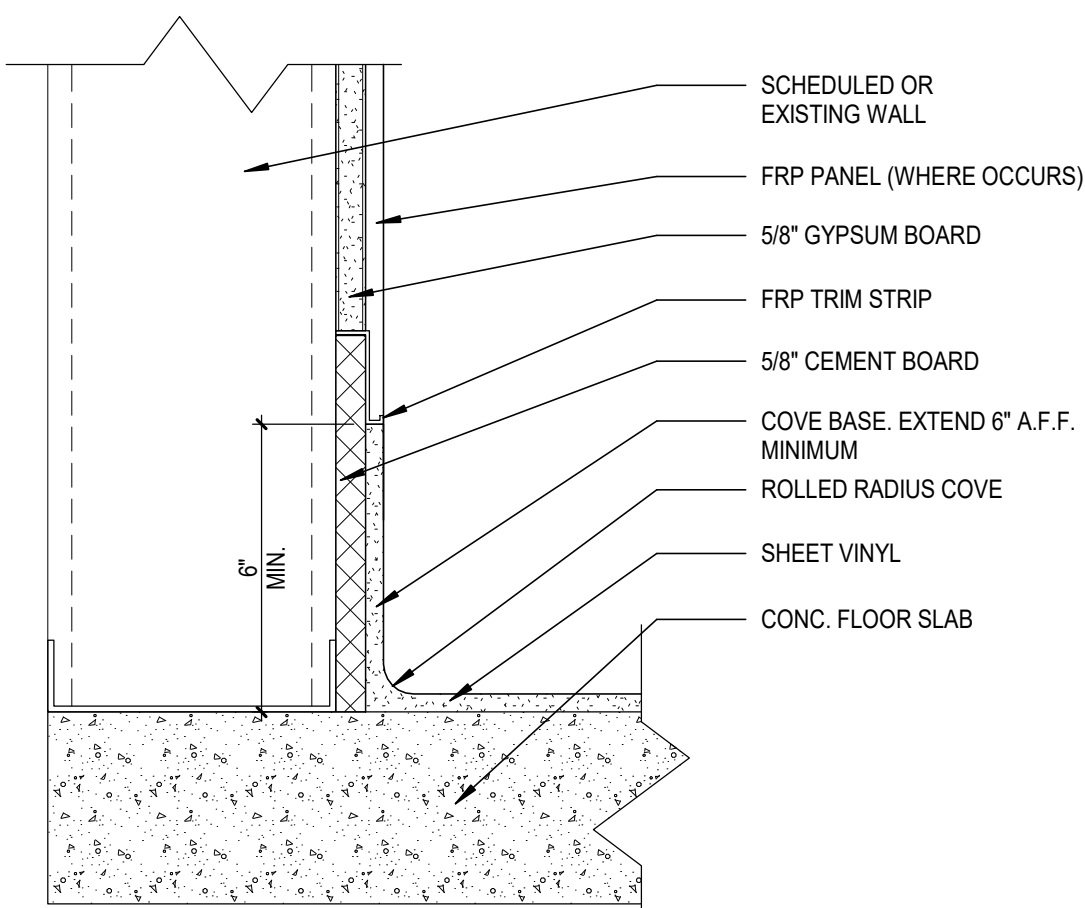
E

1

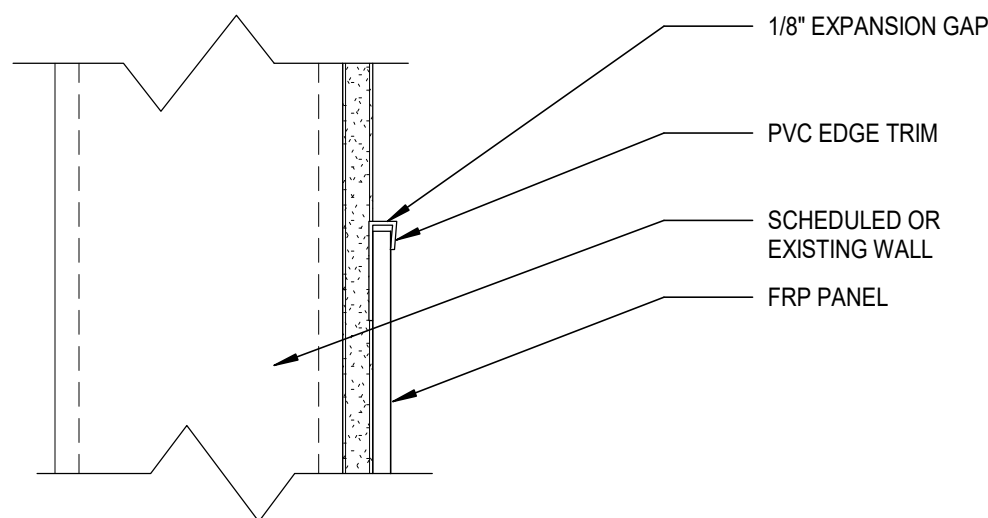
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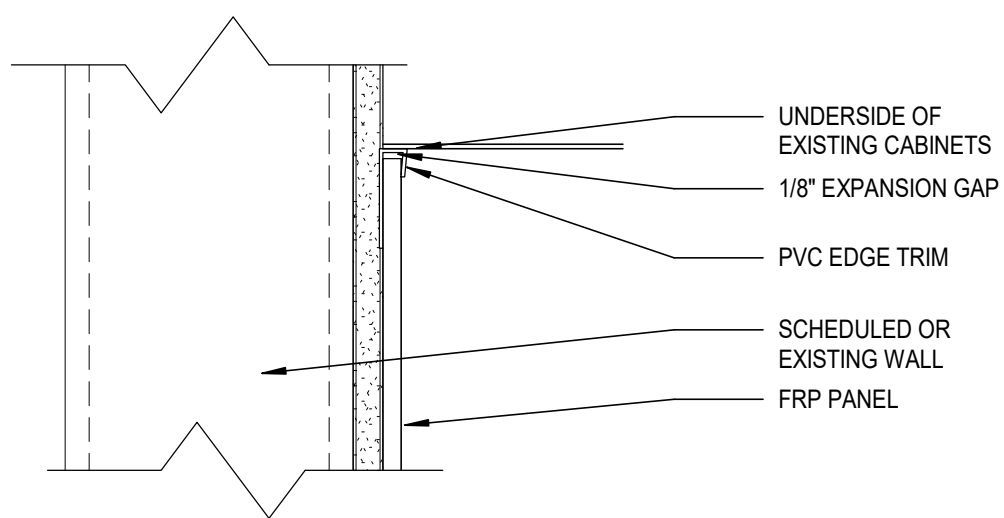
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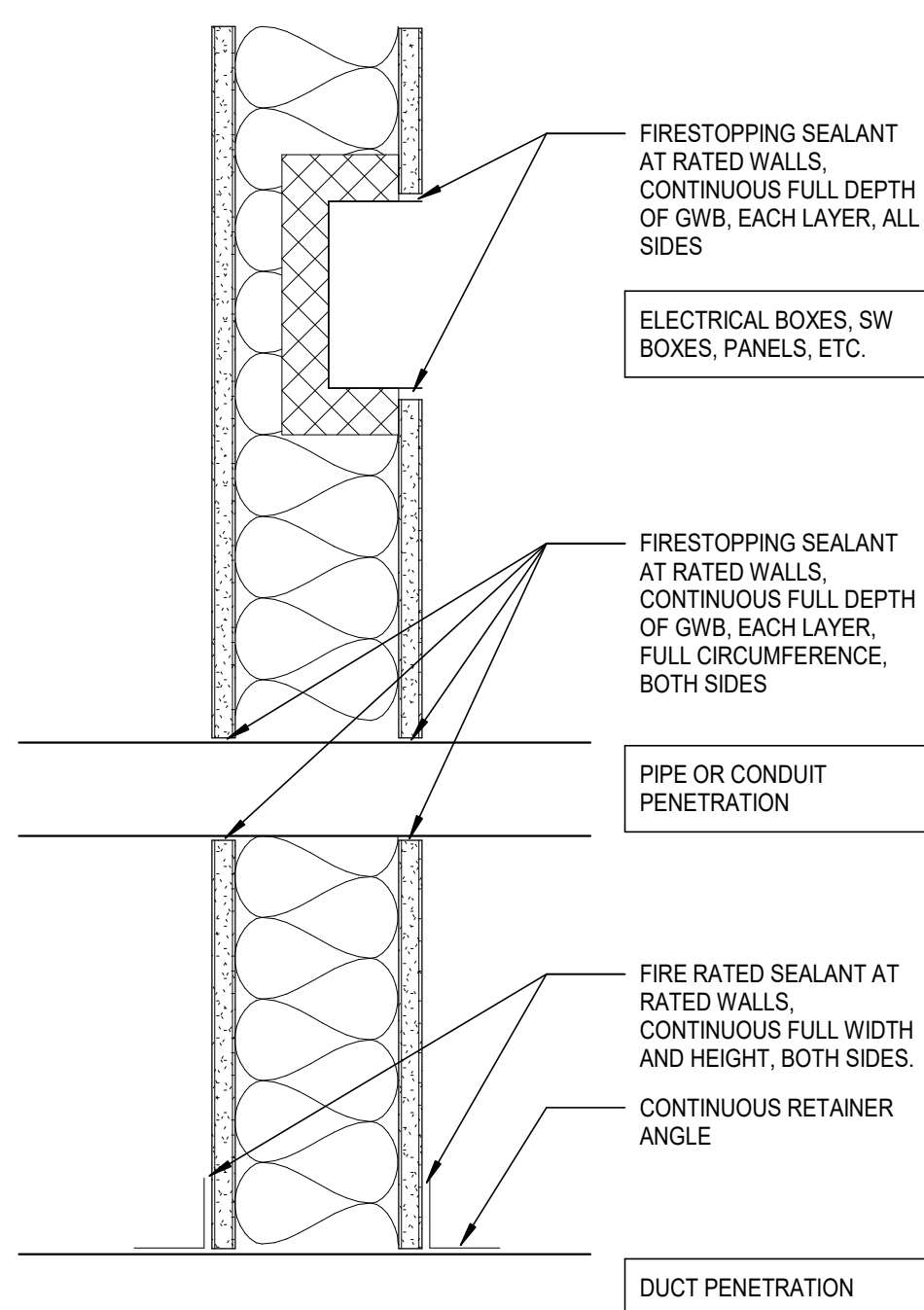
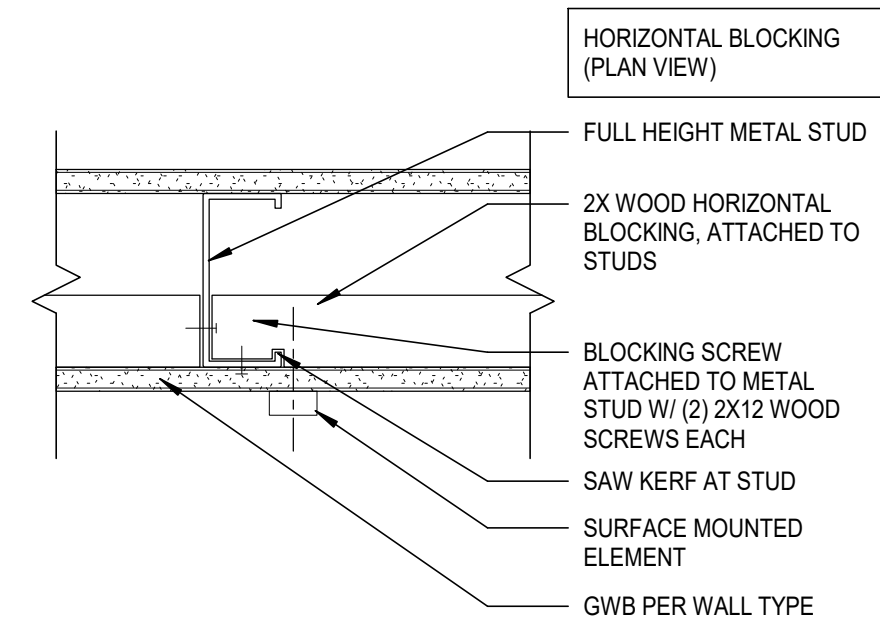
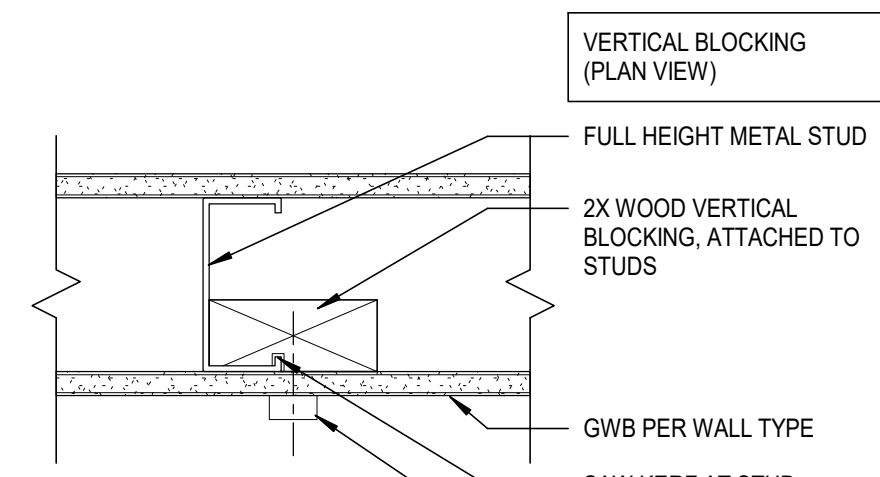
1A RESILIENT FLOORING COVE BASE DETAIL
SCALE: 3" = 1'-0"



1B PLASTIC PANELING TOP EDGE (OPEN TO ABOVE)
SCALE: 3" = 1'-0"



1C PLASTIC PANELING TOP EDGE (AT EXISTING UPPERS)
SCALE: 3" = 1'-0"



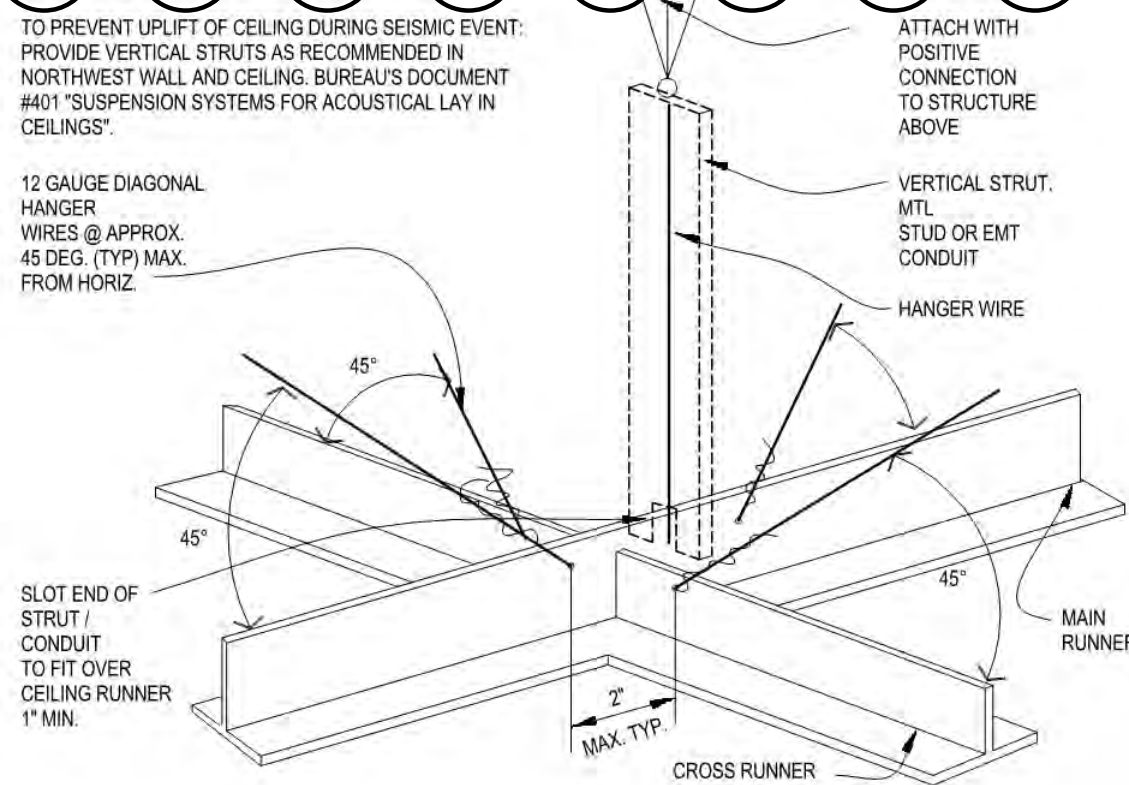
2D BLOCKING AT INTERIOR WALL
SCALE: 3" = 1'-0"

2E WALL PENETRATIONS
SCALE: 3" = 1'-0"

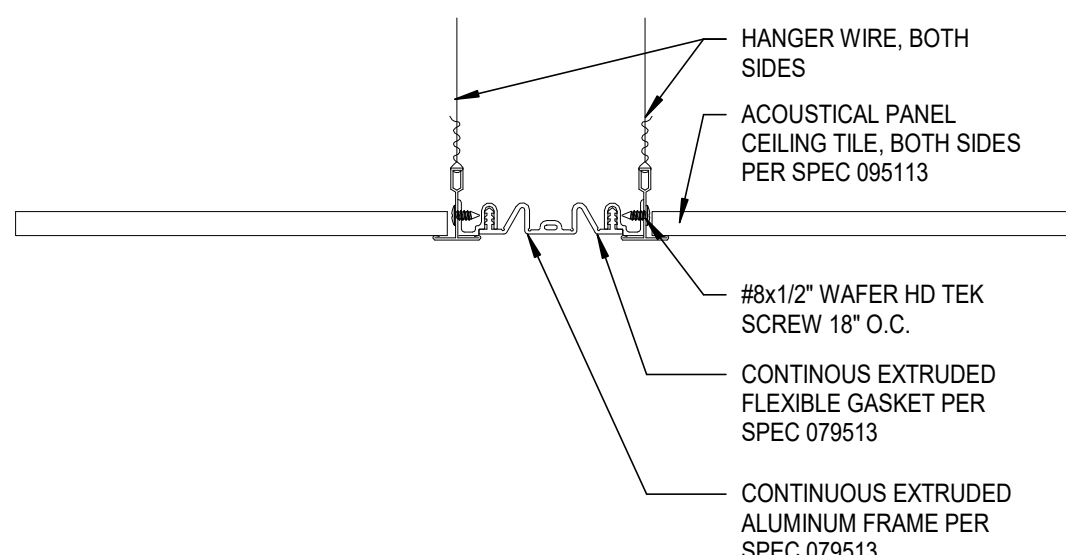
ADD-01 ACOUSTICAL PANEL CEILING DESIGN TO BE IN ACCORDANCE WITH STATE OF OREGON STATEWIDE CODE INTERPRETATION OCTOBER 2019 NO. 10-01 CONSTRUCTION REQUIREMENTS FOR SUSPENDED CEILING SYSTEMS

CEILING SYSTEM TO BE DESIGNED AND CONSTRUCTED TO RESIST THE EFFECTS OF EARTHQUAKE MOTIONS IN ACCORDANCE WITH ASCE 7 AS MODIFIED BY OSSC SECTION 1613.4. FOR CEILING AREAS EXCEEDING 1,000 SQUARE FEET, HORIZONTAL RESTRAINT OF THE CEILING TO THE STRUCTURAL SYSTEM SHALL BE PROVIDED PER OSSC SECTION 1613.4.11.

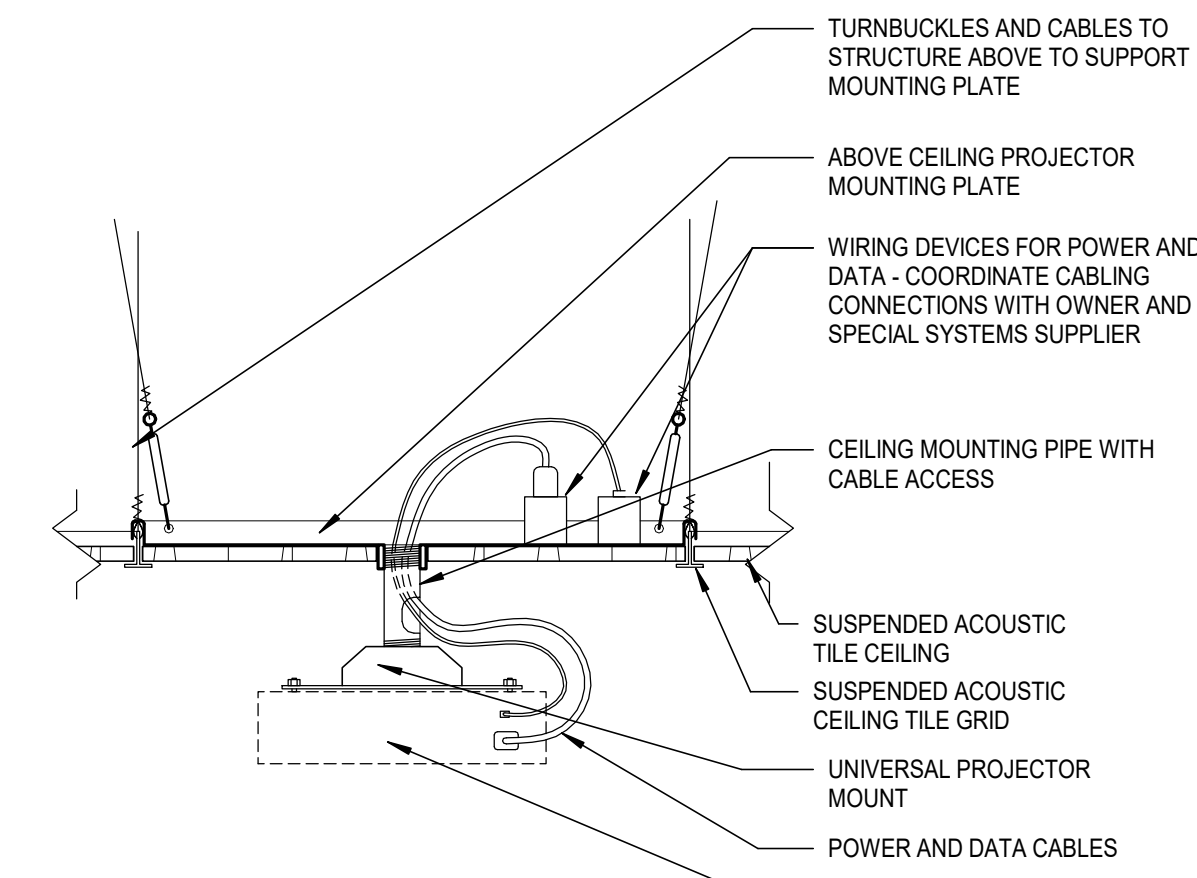
SEE S0.1 FOR RISK CATEGORY AND SEISMIC DESIGN CATEGORY THIS PROJECT.



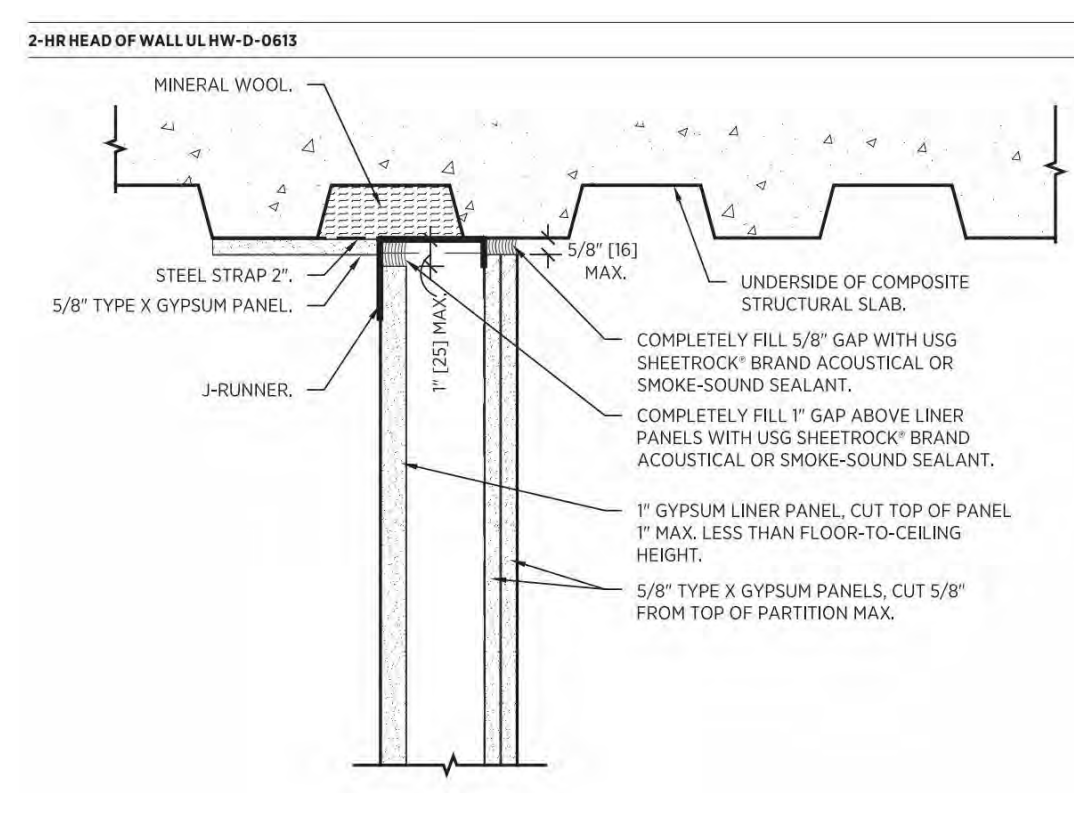
3B TYP APC SEISMIC RESTRAINT
SCALE: 1 1/2" = 1'-0"



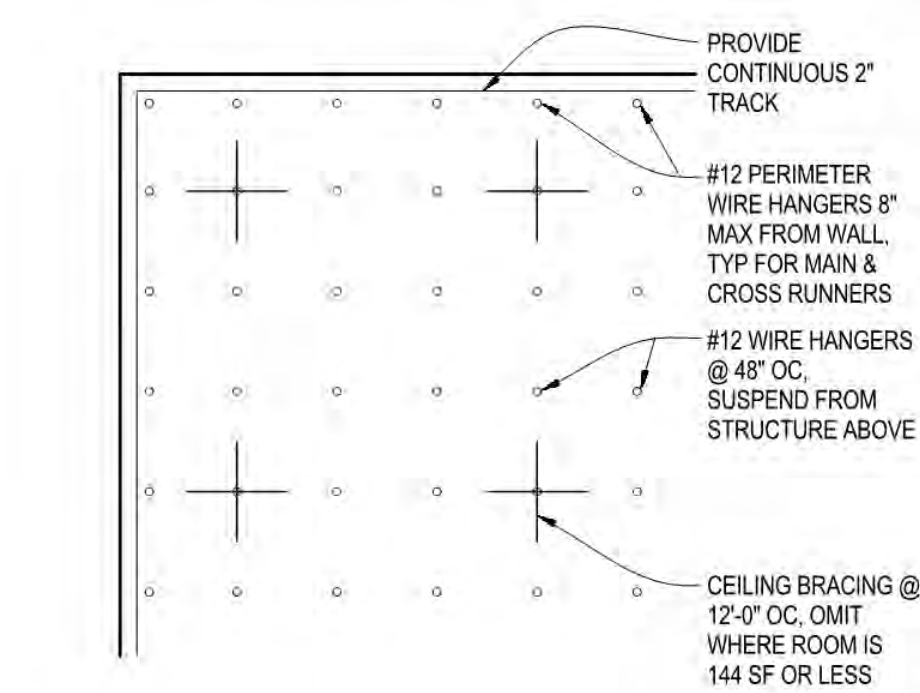
3C SEISMIC JOINT AT ACOUSTICAL PANEL CEILING
SCALE: 3" = 1'-0"



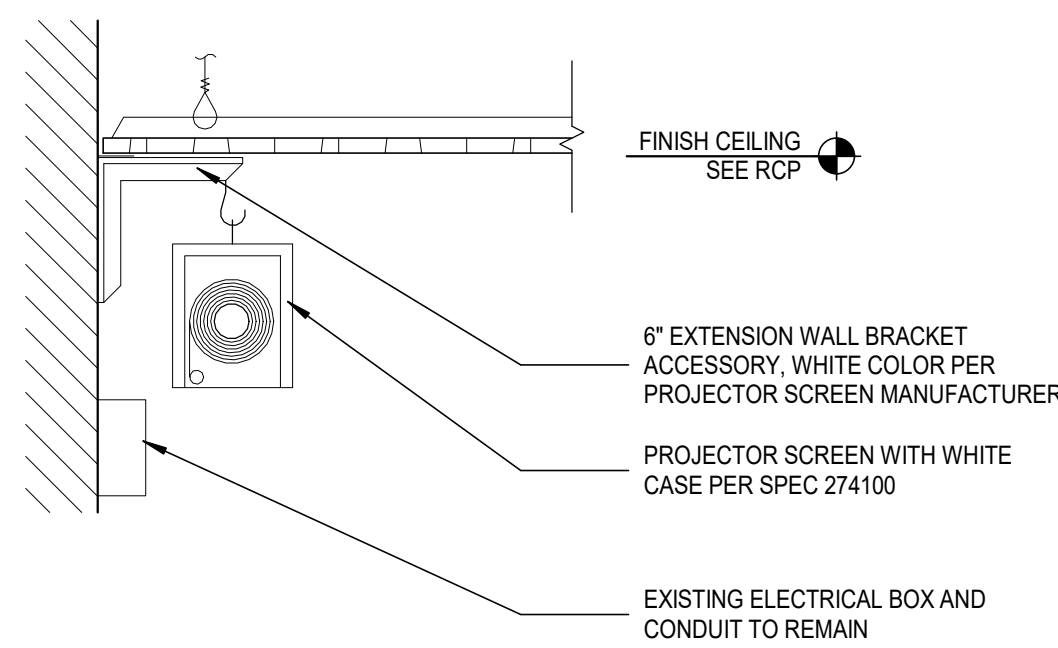
3D PROJECTOR MOUNT
SCALE: 1 1/2" = 1'-0"



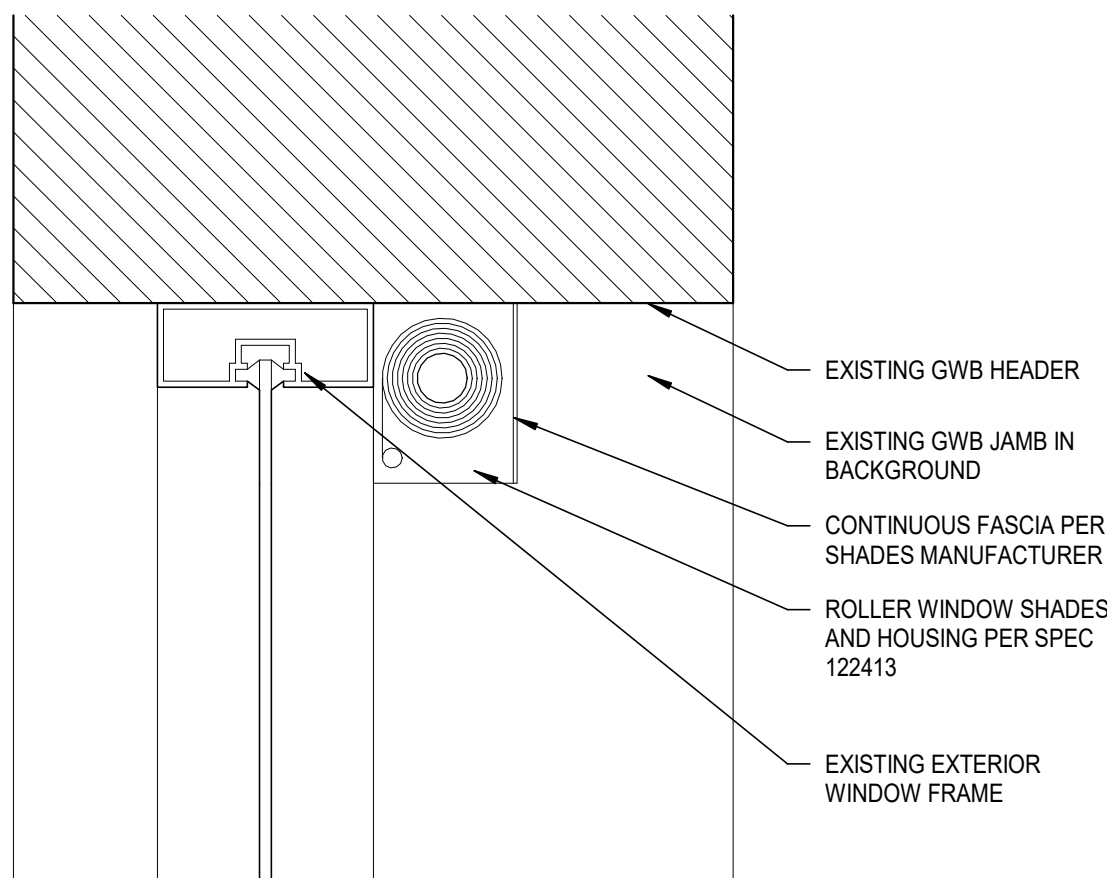
3E RATED WALL HEAD OF WALL DETAIL
SCALE: 1/2" = 1'-0"



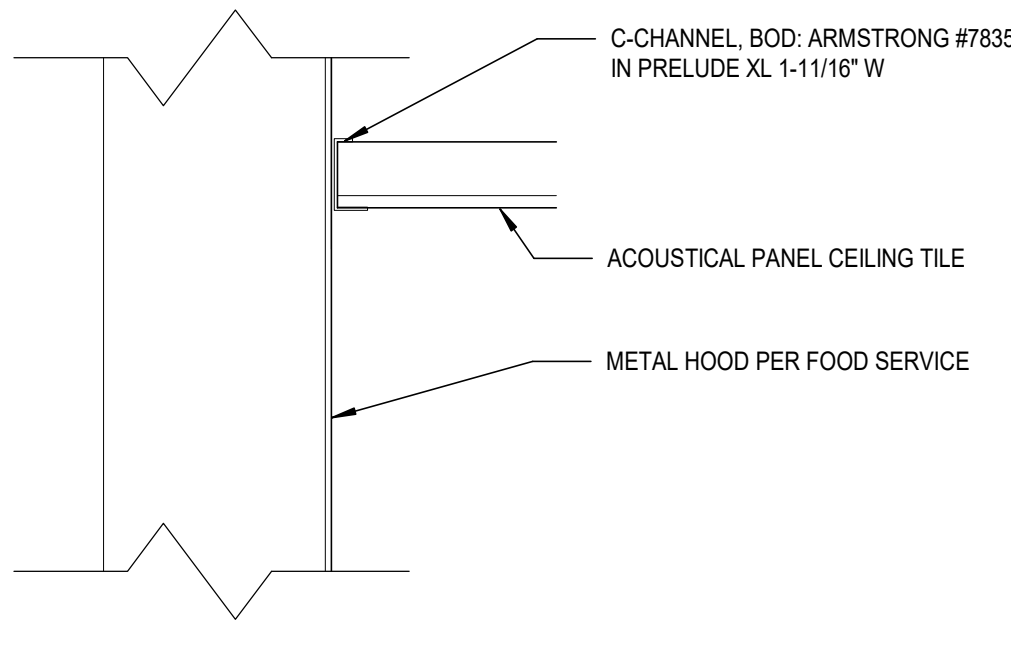
3A TYP BRACING LAYOUT
SCALE: 1 1/2" = 1'-0"



4A PROJECTION SCREEN DETAIL
SCALE: 1 1/2" = 1'-0"



4B WINDOW FRAME HEAD AT SHADES
SCALE: 3" = 1'-0"



4C APC CEILING TO METAL HOOD TRANSITION
SCALE: 3" = 1'-0"

DLR Group
© DLR Group

REGISTERED ARCHITECT
JANE E. GOODING
PORTLAND, OR
6821
STATE OF OREGON

CULINARY CLASSROOM
Westview High School - Beaverton School District

4200 NW 185th Ave, Portland, OR 97229

BID & PERMIT SET
02.18.21
REVISIONS
ADD-01 3/17/21

74-21106-00

DETAILS

A10.1

1

2

3

4

A			B		
ABBREVIATIONS					
& @ %D, DEG %C, DIA (#), EXIST #_ NO _ LB	-AND -DEGREE -DIAMETER -EXISTING -NUMBER -POUND	MAX MB MBR MECH MEZZ MFR MRR RC MHZ	-MAXIMUM -MACHINE BOLT -MEMBER -MECHANICAL -MEZZANINE -MANUFACTURE(R/D) -MANUFACTURER'S RECOMMENDATIONS -MANHOLE -MIDDLE -MINIMUM -MISCELLANEOUS		
AB ABV ADDL ADH ADJ AFS ALT ALUM APPROX AR ARCH ASPH ASSY	-ANCHOR BOLT -ABOVE -ADDITIONAL -ADHESIVE -ADJACENT -ABOVE FINISHED SLAB -ALTERNATE -ALUMINUM -APPROXIMATE -AS REQUIRED -ARCHITECTURAL -ASPHALT -ASSEMBLY	NA NIC NIP NORM NS NTS	-NOT APPLICABLE -NOT IN CONTRACT -NOT IN PERMIT -NORMAL -NEAR SIDE -NOT TO SCALE		
BASE PL BLDG BLKG BLW BM(S) BO xxx BOT BRB BRG BS BTWN	-BASE PLATE -BUILDING -BLOCKING -BELOW -BEAM(S) -BOTTOM OF xxx -BOTTOM -BUCKLING RESTRAINED BRACE -BEARING -BOTH SIDES -BETWEEN	OC OD O.F OFS OL OPH OPNG OPP OVS	-ON CENTER -OUTSIDE DIAMETER -OUTSIDE FACE -OUTSIDE FACE OF STUDS -OUTSIDE LAYER -OPPOSITE HAND -OPENING -OPPOSITE -OVERSIZED		
C CANT CDF CEM PLAS CIP CJ CJP CL CLRM CMU COL CONC CONN CONSTR COORD CSK CTR	-CHANNEL -CANTILEVER -CONTROLLED DENSITY FILL -CEMENT PLASTER -CAST-IN-PLACE -CONTRACTION JOINT/CONTROL JOINT -COMPLETE JOINT PENETRATION WELD -CENTER LINE -CLEAR(ANCE) -CONTROLLED LOW STRENGTH MATERIAL -CONCRETE MASONRY UNIT -COL -CONCRETE -CONNECTION -CONTRACTOR -COORDINATE -COUNTER SUNK -CENTER(ED)	R RC RD REF REINF REQD RO RTU	-RADIUS -REINFORCED CONCRETE -ROOF DRAIN -REFERENCE -REINFORCING -REQUIRED -ROUGH OPENING -ROOFTOP UNIT		
D DC DBL DEG DEMO DET DEV DIAG DIM DIST DN DWG DWL	-DEPTH/DEEP -DEMAND CRITICAL -DOUBLE -DEGREE -DEMOLITION -DETAIL -DEVELOPMENT/DEVELOPER -DIAGONAL/DIAGRAM -DIMENSION -DISTANCE -DOWN -DRAWING -DOWEL	SC SCHD SECT SEOR SLBB SFRS SHT SHTHG SH SMS SPEC SPCS SQ SSH SST STD STIF STL STL JST STRUCT SYMM	-SLIP CRITICAL -SCHEDULE -SECTION -STRUCTURAL ENGINEER OF RECORD -SHORT LEG BACK TO BACK -SEISMIC FORCE RESISTING SYSTEM -SHEET -SHEATHING -SIMILAR -SHEET METAL SCREW -SPECIFICATION -SPACES -SQUARE -SHORT SLOTTED-HOLE -STAINLESS STEEL -STANDARD -STIFFENER -STEEL -STEEL JOIST -STRUCTURAL -SYMMETRICAL		
EA EF EJ EL ELEC ELEV EMBED EOS EOD EQ EQ1 SPCD EQUIP ES ESC EW EXP EXT	-EACH -EACH FACE -EXPANSION JOINT -ELEVATION -ELECTRICAL -ELEVATOR -EMBEDMENT/EMBEDDED -EDGE OF SLAB -EDGE OF DECK -EQUAL -EQUALLY SPACED -EQUIPMENT -EACH SIDE -ESCALATOR -EACH WAY -EXPANSION -EXTERIOR	TB TBC TBR THK TO TOC TOF TOGB TOS TOSL TOW TRANSV TRTD TYP TTC T&B T&G	-THROUGH BOLT -THREADED BAR COUPLER -TO BE REMOVED -THICKNESS -TOP OF xxx -TOP OF CONCRETE -TOP OF FOOTING -TOP OF GRADE BEAM -TOP OF STEEL -TOP OF SLAB -TOP OF WALL -TRANSVERSE -TREATED -TYPICAL -TENSION/COMPRESSION CORD -TOP AND BOTTOM -TONGUE AND GROOVE		
FIN FLG FLR FO xxx FOC FOS FOS FP FRT FS FT FTG	-FINISHED -FLANGE -FLOOR -FACE OF xxx -FACE OF CONCRETE -FACE OF FINISH -FACE OF STEEL -FIREPROOF(ING)/FIRE PROTECTION -FIRE RETARDANT TREATED -FAR SIDE -FOOT, FEET -FOOTING	VIF VNR VERT W WD WF WO WP WT WHS WWF W/ W/O	-VERIFY IN FIELD -VENEER -VERTICAL -WIDE/WIDTH -WOOD -WIDE FLANGE -WHERE OCCURS -WATERPROOFING/WORK POINT -WEIGHT -WELDED HEADED STUD -WELDED WIRE FABRIC -WITH -WITHOUT		
GA GALV GEN GLB GR GB GYP BD	-GAGE/GAUGE -GALVANIZED -GENERAL -GLUE LAMINATED TIMBER -GRADE -GRADE BEAM -GYPSUM BOARD	YD	-YARD		
H HDR HGR HLDN HORIZ HSS HT HVAC	-HIGH -HEADER -HANGER -HOLD/DOWN -HORIZONTAL -HOLLOW STRUCTURAL SECTIONS -HEIGHT -HEATING, VENTILATION AND AIR CONDITIONING				
ID IF IJ IL IN INFO INSUL INT	-INSIDE DIAMETER -INSIDE FACE -ISOLATION JOINT -INSIDE LAYER -INCHES -INFORMATION -INSULATE/INSULATION -INTERIOR				
JST JT	-JOIST -JOINT				
KIP KSI KWY	-1,000 POUNDS -KIPS PER SQUARE INCH -KEYWAY				
L LBR LLBB LLH LOC LSH	-ANGLE/LENGTH -LUMBER -LONG LEG BACK TO BACK -LONG LEG VERTICAL -LOCATION -LONG SIDE HORIZONTAL				

STRUCTURAL SHEET INDEX	
SHEET NUMBER	SHEET NAME
S0.1	STRUCTURAL NOTES
S1.1	PARTIAL FOUNDATION AND FRAMING PLAN
S3.1	STRUCTURAL DETAILS
Grand total: 3	

- STRUCTURAL STEEL, MISC. METAL**
- STRUCTURAL STEEL DETAILING, FABRICATION AND ERECTION SHALL CONFORM TO THE BUILDING CODE, RULES AND REGULATIONS USING LOADS AS DEFINED IN AISC-360 SECTION B3-3 "DESIGN FOR STRENGTH USING LOAD AND RESISTANCE FACTOR DESIGN (LRFD)".
 - FABRICATOR SHALL BE AN "APPROVED FABRICATOR" IN ACCORDANCE WITH IBC SECTION 1704.2.5.1, REGISTERED AND APPROVED BY THE LOCAL BUILDING DEPARTMENT. IN LIEU OF THE PREVIOUS, FABRICATOR SHALL INCLUDE INSPECTION/TESTING SERVICES FOR IN-SHOP WORK IN THEIR BID TO MEET THE REQUIREMENTS OF IBC 1704.2.5.
 - STRUCTURAL STEEL FABRICATION AND ERECTION SHALL CONFORM TO AISC REQUIREMENTS AND THE PROJECT SPECIFICATIONS.
 - STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING, UNLESS OTHERWISE NOTED ON THE STRUCTURAL DRAWINGS:
 - WIDE FLANGE SHAPES ASTM A992, Fy=50 KSI
 - PLATES AND BARS ASTM A36, Fy=36 KSI
 - CHANNELS AND ANGLES ASTM A36, Fy=36 KSI
 - HOLLOW RECTANGULAR SECTIONS ASTM A500C, Fy=50 KSI
 - ANCHOR RODS EMBEDDED IN CONCRETE ASTM F1554 GRADE 36
 - THREADED RODS FOR EPOXY ANCHORAGE ASTM A193 GRADE B7
 - CONNECTION BOLTS F3125 GRADE A328
 - THE STRUCTURAL STEEL FABRICATOR SHALL FURNISH SHOP DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO THE START OF FABRICATION.
 - WELDING SHALL BE PERFORMED IN ACCORDANCE WITH AWS REQUIREMENTS. ALL WELDS SHALL BE PREQUALIFIED IN ACCORDANCE WITH AWS AND AISC STANDARDS. USE E70XX ELECTRODES, UON.
 - ALL WELDS SHALL BE PERFORMED BY WELDERS CERTIFIED IN THE JURISDICTION HAVING AUTHORITY OVER THIS PORTION OF THE WORK.
 - WELD LENGTHS CALLED FOR ON THE PLANS ARE THE NET EFFECTIVE LENGTH REQUIRED. WELD SIZE SHALL BE AISC MINIMUM, UON.
 - BEAMS AND GIRDERS SHALL NOT SUPPORT PIPING LARGER THAN 10" DIAMETER WITHOUT THE REVIEW OF THE STRUCTURAL ENGINEER OF RECORD.
 - TENSION CONTROL BOLTS MAY BE SUBSTITUTED FOR THE BOLTS SPECIFIED IN THESE PLANS AT THE DISCRETION OF THE CONTRACTOR. ASTM F3125 GRADE F1852 BOLTS MAY BE SUBSTITUTED FOR ASTM F3125 GRADE A328 BOLTS AND ASTM F3125 GRADE 2280 BOLTS MAY BE SUBSTITUTED ASTM F3125 GRADE A490 BOLTS.

COLD FORMED STEEL

- THE DESIGN AND INSTALLATION OF COLD FORMED STEEL SHALL CONFORM TO THE REQUIREMENTS OF THE BUILDING CODE AND AISI STANDARDS.
- COLD FORMED STEEL SHALL CONFORM TO ASTM A653S5 OR A1003-H.
 - 16GA (54MIL) AND THICKER ELEMENTS SHALL HAVE A MINIMUM YIELD STRENGTH OF 50 KSI.
 - 18GA (43 MIL) AND THINNER ELEMENTS SHALL HAVE A MINIMUM YIELD STRENGTH OF 33 KSI.
- STUDS, JOISTS, TRACK, BRIDGING, END CLOSURES, AND ACCESSORIES SHALL BE GALVANIZED PER THE PROJECT SPECIFICATIONS.
- STEEL STUDS AND JOISTS SHALL BE "C" SHAPED WITH STIFFENED FLANGES, OF THE SIZE, GAUGE AND PROPERTIES SHOWN ON THE STRUCTURAL DRAWINGS, OR AS DESIGNATED WITH STEEL STUD MANUFACTURER'S ASSOCIATION (SSMA) NOMENCLATURE AS SPECIFIED IN ICC ER-3064P.
- TRACK SHALL BE CHANNEL SHAPED, MATCHING STUD AND JOIST GAUGE, WITH MINIMUM FLANGE WIDTH OF 1 1/4" UON. BRIDGING SHALL BE PROVIDED PER THE RECOMMENDATION OF THE MANUFACTURER, UON.
- WELDING, FABRICATION, ATTACHMENTS, ETC., SHALL BE IN CONFORMANCE WITH THE PLANS AND SPECIFICATIONS, OR, IF NOT SPECIFIED, WITH THE RECOMMENDATIONS AND SPECIFICATIONS OF THE MANUFACTURER.
- WELDING OF COLD FORMED MEMBERS SHALL CONFORM TO AWS D1.3D1.3M, "STRUCTURAL WELDING CODE, SHEET STEEL", 2018 EDITION.
- SCREW CONNECTIONS SHALL BE MADE USING SELF DRILLING / SELF TAPPING SCREWS CONFORMING TO ASTM C1513 AND ASTM A510. USE SCREW SIZE AS SPECIFIED ON THE STRUCTURAL DRAWINGS. SCREWS FASTENING GYPSUM SHEATHING TO COLD FORMED STUDS OR JOISTS SHALL CONFORM TO ASTM C954.
- MINIMUM AND DESIGN THICKNESS FOR COLD FORMED MEMBERS SHALL CONFORM TO ICC ER-3064P.
- ALL COLD FORMED METAL FRAMING, INCLUDING INTERIOR, EXTERIOR, STRUCTURAL, AND NON-STRUCTURAL SHALL BE DESIGNED BY THE CONTRACTOR'S DELEGATED ENGINEER. PROVIDE SIGNED AND SEALED SHOP DRAWINGS AND CALCULATIONS.

SUBMITTALS

- THE FOLLOWING ITEMS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION/ERECTION/INSTALLATION. THESE ITEMS ARE IN ADDITION TO ANY SUBMITTAL REQUIREMENTS SPECIFIED ON THESE PLANS OR IN THE PROJECT SPECIFICATIONS.

STRUCTURAL SUBMITTALS					
ITEM	PROD DATA	SHOP DWGS	TEST RESULTS	CALCS	DEFERRED SUBMITTAL
STRUCTURAL STEEL	-	YES	-	-	-
COLD FORMED STEEL	YES	YES	-	YES	YES
EPOXY AND EXP ANCHORS	YES	-	-	-	-
CEILING/MEP SUPPORT AT UNTOPPED DECK	-	YES	-	YES	YES
ANCHORAGE FOR MECH/ELEC EQUIPMENT	-	YES	-	YES	YES
MEP EQUIPMENT/CONDUIT SEISMIC BRACING	YES	YES	-	YES	YES
ACOUSTICAL PANEL CEILING SEISMIC BRACING	YES	YES	-	YES	YES

- "PROD DATA" - SUBMIT ADEQUATE DOCUMENTATION THAT THE PRODUCT PROPOSED TO BE USED MEETS THE REQUIREMENTS ON THESE PLANS AND THE PROJECT SPECIFICATIONS.
- "SHOP DWGS" - SUBMIT COMPLETE SHOP DRAWINGS SUFFICIENT TO SHOW QUANTITIES AND KINDS OF MATERIALS, METHODS OF ASSEMBLY, AND ALL DATA REQUIRED FOR FABRICATION, ERECTION, AND INSTALLATION. THE PURPOSE OF THESE DRAWINGS IS TO DEMONSTRATE THAT THE CONTRACTOR UNDERSTANDS THE DESIGN CONCEPT DOCUMENTED HEREIN. SUBMITTALS CONSISTING OF DRAWINGS TAKEN DIRECTLY FROM THESE PLANS WILL NOT BE APPROVED.
- "TEST RESULTS" - SUBMIT RESULTS FOR ANY TESTING REQUIRED BY BUILDING CODE OR THESE PLANS.
- "CALCS" - SUBMIT CALCULATIONS SIGNED AND SEALED BY A DESIGN PROFESSIONAL AUTHORIZED TO PERFORM WORK IN THE PROJECT JURISDICTION.
- "DEFERRED SUBMITTAL" - SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW, ONCE REVIEWED, CONTRACTOR SHALL FORWARD TO THE BUILDING DEPARTMENT FOR APPROVAL. FABRICATION AND/OR INSTALLATION OF DEFERRED SUBMITTAL ITEMS SHALL NOT OCCUR UNTIL APPROVAL OF THE BUILDING DEPARTMENT IS RECEIVED.

- CONCRETE**
- ALL CONCRETE CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE BUILDING CODE AND ACI SPECIFICATIONS.
 - CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF THE PROJECT SPECIFICATIONS IN ADDITION TO THE REQUIREMENTS IN THESE DRAWINGS, WHERE THE SPECIFICATIONS APPEAR TO CONFLICT WITH THE REQUIREMENTS IN THESE DRAWINGS, THE CONTRACTOR SHALL OBTAIN CLARIFICATION FROM THE ARCHITECT / STRUCTURAL ENGINEER BEFORE PROCEEDING WITH WORK.
 - CONCRETE SHALL CONFORM TO THE STRENGTH, WATER-CEMENT RATIO, EXPOSURE CLASS, MAXIMUM UNIT WEIGHT AND CEMENT TYPE SPECIFIED IN THE SCHEDULE BELOW. CONCRETE STRENGTHS SHALL BE VERIFIED BY 28-DAY CYLINDER TESTS.

CONCRETE REQUIREMENTS					
ELEMENT	STRENGTH f _c (psi)	MAX W/C RATIO	EXPOSURE CLASS	MAX DRY UNIT WEIGHT (pcf)	CEMENT TYPE
SLABS-ON-GRADE	4,000	0.5	NA	150	I OR II

- EXPOSURE CLASSES ARE F0, S0, P0, C0 UNLESS NOTED OTHERWISE IN THE TABLE ABOVE.
 - THE WATER-CEMENT RATIO IN CONCRETE CONTAINING POLYSILICATE ADMIXTURES SHALL CONFORM TO THE REQUIREMENTS OF THE ADMIXTURE SUPPLIER. SUBMIT ADMIXTURE PRODUCT DATA FOR REVIEW WITH THE MIX DESIGN SUBMITTAL. REFER TO THE PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
 - CONCRETE MIXES SHALL COMPLY WITH ACI 318 SECTION 19.3 FOR THE EXPOSURE CLASSES INDICATED THE TABLE ABOVE. FOR CLASSES F1 THROUGH F3, AIR ENTRAINMENT SHALL MEET THE REQUIREMENTS OF ACI-318 TABLE 19.3.3.1.
 - PORTLAND CEMENT SHALL CONFORM TO ASTM C-150 OF THE TYPE SPECIFIED IN THE TABLE ABOVE.
 - COARSE AND FINE AGGREGATE FOR NORMAL WEIGHT CONCRETE SHALL CONFORM TO ASTM C-33.
 - WATER SHALL BE CLEAR, POTABLE AND SHALL CONFORM TO ASTM C-94.
 - CONCRETE MIXING OPERATION SHALL CONFORM TO ASTM C-94.
- THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT PLACED IN CAST-IN-PLACE CONCRETE:
 - CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3"
 - CONCRETE EXPOSED TO EARTH OR WEATHER: #6 THROUGH #18 BARS 2" #5 BAR, W31 OR D31 WIRE, AND SMALLER 1 1/2"
 - CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND: BEAMS, COLUMNS 1 1/2" SLABS, WALLS, JOISTS: #14 AND #18 BARS 1 1/2" #11 BARS AND SMALLER 3/4" SHELLS, FOLDED PLATE MEMBERS: #6 BARS AND LARGER 3/4" #5, W31 OR D31 WIRE, AND SMALLER 1/2"

- PLACEMENT OF CONCRETE SHALL CONFORM TO ACI REQUIREMENTS AND THE CONTRACT DOCUMENTS. INTENTIONALLY ROUGHEN ALL CONCRETE SURFACES TO A MINIMUM 1/4" AMPLITUDE AGAINST WHICH CONCRETE IS TO BE PLACED, UON.
- PROVIDE SLEEVES FOR PLUMBING AND ELECTRICAL OPENINGS IN CONCRETE BEFORE PLACING. REINFORCING SHALL NOT BE CUTS. CORING OF CONCRETE IS NOT PERMITTED EXCEPT AS INDICATED.
- CONDUIT OR PIPE OUTSIDE DIAMETER SHALL NOT EXCEED ONE THIRD OF THE SLAB THICKNESS AND SHALL BE PLACED BETWEEN THE TOP AND BOTTOM REINFORCING, UNLESS SPECIFICALLY DETAILED OTHERWISE. CONDUITS SHALL BE SPACED SUCH THAT THE CLEAR DISTANCE BETWEEN IS NOT LESS THAN THE LARGER OF THREE TIMES THE LARGER PIPE DIAMETER OR FOUR INCHES. CONCENTRATIONS OF CONDUIT NOT MEETING THESE LIMITATIONS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL PRIOR TO PLACEMENT.

REINFORCING STEEL

- REINFORCING STEEL SHALL BE DETAILED, INCLUDING HOOKS AND BENDS, AND PLACED IN ACCORDANCE WITH ACI 315 AND ACI 318.
- REINFORCING STEEL SHALL CONFORM TO ASTM A-615 OR A-706, GRADE 60.
- WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185.
- ALL REINFORCING BAR BENDS SHALL BE MADE COLD. BARS SHALL NOT BE RE-BENT.
- REINFORCING SPLICES SHALL BE MADE AS INDICATED ON THE DRAWINGS.
- WELDED WIRE FABRIC SHALL BE LAPPED AT SPLICES SUCH THAT A MINIMUM OF THREE WIRES PARALLEL TO THE SPlice ARE OVERLAPPED. SPLICES SHALL OVERLAP A MINIMUM OF 8 INCHES.
- PROVIDE #4 x 2'-0" DIAGONAL BAR AT ALL REENTRANT CORNERS OF CONCRETE SLABS AT GRADE AND SLABS ON METAL DECK.
- NO BARS PARTIALLY EMBEDDED IN HARDENED CONCRETE SHALL BE FIELD BENT UNLESS SPECIFICALLY SO DETAILED AND REVIEWED BY THE STRUCTURAL ENGINEER.
- REINFORCEMENT SHALL BE SECURELY TIED IN PLACE PRIOR TO THE PLACEMENT OF CONCRETE OR GROUT.

POST-INSTALLED ANCHORAGE

- ADHESIVE ANCHORAGES, WHERE SPECIFIED ON THE DRAWINGS, SHALL CONFORM TO THE FOLLOWING:
 - CONCRETE EPOXY ANCHORS: HILTI HIT-RE 500-V3 ESR-3814
- MECHANICAL ANCHORAGES, WHERE SPECIFIED ON THE DRAWINGS, SHALL CONFORM TO THE FOLLOWING:
 - CONCRETE EXPANSION ANCHORS: HILTI KWIK BOLT TZ ESR-1917
 - CONCRETE UNDERCUT ANCHORS: HILTI HSA ESR-1546
- DRILLING SHALL BE PERFORMED WITH A ROTARY HAMMER DRILL AND CARBIDE TIPPED DRILL BIT IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND THE APPLICABLE ICC EVALUATION REPORT.
- BORE HOLE CLEANING PROCEDURES MUST COMPLY WITH THE MANUFACTURER'S INSTRUCTIONS AND THE APPLICABLE ICC EVALUATION REPORT IN ORDER TO PRODUCE A DRY, DUST-FREE HOLE.
- INJECTION OF ADHESIVE SHALL BE PERFORMED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND THE APPLICABLE ICC EVALUATION REPORT IN ORDER TO PRODUCE AN AIR-VOID FREE INJECTION.
- SPECIAL CONDITIONS SUCH AS WATER SATURATED CONCRETE, WATER-FILLED HOLES, UNDERWATER AND OVERHEAD INSTALLATIONS MUST BE APPROVED BY THE ENGINEER OF RECORD AND COMPLY WITH THE APPLICABLE ICC-ES REPORT.
- STEEL ANCHORING ELEMENTS SHALL BE THE SIZE AND GRADE SHOWN ON THE DRAWINGS AND MUST BE CLEAN, DRY AND FREE OF ANY OIL CONTAMINANTS.
- SUBSTITUTIONS FOR ANCHOR SYSTEMS MUST BE APPROVED BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO INSTALLATION AND SHALL HAVE A VALID ICC-ES EVALUATION IN ACCORDANCE WITH THE APPLICABLE BUILDING CODE.
- ALL ANCHOR EMBED DEPTHS SPECIFIED ON THESE DRAWINGS ARE EFFECTIVE EMBEDMENT DEPTHS. ADDITIONAL ANCHOR LENGTH AND OR HOLE DEPTH SHALL BE PROVIDED AS REQUIRED BY THE ANCHOR MANUFACTURER AND ASSOCIATED CODE APPROVALS.

- BUILDING CODE**
- ALL CONSTRUCTION, MATERIALS, AND WORKMANSHIP SHALL CONFORM TO THE REQUIREMENTS OF THESE DRAWINGS, SPECIFICATIONS, AND THE CODES, RULES AND REGULATIONS OF THE OREGON STRUCTURAL SPECIALTY CODE (OSSC), 2019 EDITION, AS ADOPTED AND AMENDED BY THE CITY OF BEAVERTON HEREINAFTER REFERRED TO AS THE BUILDING CODE.
- DESIGN CRITERIA
- ROOF LIVE LOAD 20 PSF
 - ROOF DEAD LOAD 16 PSF PLUS STRUCTURE SELF-WEIGHT
 - WIND DESIGN CRITERIA
BASIC WIND SPEED, V = 103 MPH (RISK CATEGORY III)
EXPOSURE FACTOR B = 0.18
INTERNAL PRESSURE COEFFICIENT GCp =
- SEISMIC DESIGN CRITERIA
RISK CATEGORY III
SITE CLASS D
IMPORTANCE FACTOR I_p = 1.0
S₁ = 0.422
S₂ = 0.911
S_{2S} = 0.729
S_{2I} = 0.686
SEISMIC DESIGN CATEGORY D
LATITUDE 45.550 N
LONGITUDE 122.867 W
- GENERAL NOTES**
- THE STRUCTURAL DRAWINGS REPRESENT THE DESIGN OF THE PRIMARY STRUCTURE BASED ON PRESCRIBED LOADS, (SEE "DESIGN CRITERIA" SECTION), IMPOSED ON THE STRUCTURE PER THE BUILDING CODE AS SPECIFIED IN THE "BUILDING CODE" SECTION. THE PRIMARY STRUCTURE OF THE BUILDING IS DEFINED AS THE FOUNDATIONS, BEARING WALLS, SHEAR WALLS, COLUMNS, BEAMS, SLABS, FLOOR FRAMING AND LATERAL FORCE RESISTING ELEMENTS REQUIRED TO MAINTAIN THE STABILITY OF THE COMPLETED STRUCTURE AS A WHOLE.
 - ALL CONSTRUCTION MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE REQUIREMENTS OF THE DRAWINGS, SPECIFICATIONS, AND THE CODES, RULES AND REGULATIONS OF THE BUILDING CODE AS DEFINED IN THE "BUILDING CODE" SECTION.
 - THE CONTRACT DOCUMENTS REPRESENT THE FINISHED STRUCTURE, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.
 - CONSTRUCTION MATERIAL AND EQUIPMENT LOADS PLACED ON THE STRUCTURE DURING THE CONSTRUCTION PROCESS SHALL NOT EXCEED THE DESIGN LIVE LOAD OF THE STRUCTURE. NOTED IN THESE DRAWINGS. THE ENGINEER SHALL NOT BE RESPONSIBLE TO INVESTIGATE NOR APPROVE THE STRUCTURE FOR CONSTRUCTION MATERIAL OR EQUIPMENT LOADING.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY BRACING AS REQUIRED FOR THE STRUCTURE AND STRUCTURAL COMPONENTS UNTIL ALL MEMBERS ARE IN PLACE AND FINAL CONNECTIONS HAVE BEEN COMPLETED IN ACCORDANCE WITH THE PLANS.
 - CONSTRUCTION TOLERANCES SHALL CONFORM TO THE BUILDING STANDARDS SPECIFIED IN THE "BUILDING CODE" SECTION.
 - THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION. THE ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES.
 - MECHANICAL AND ELECTRICAL LOADS MAY BE SUPPORTED FROM BEAMS. LIGHT MECHANICAL AND ELECTRICAL LOADS ANCHORED INTO METAL DECK ASSEMBLY MUST BE ANCHORED INTO STRUCTURAL CONCRETE ABOVE.
 - IF ANY ERRORS OR OMISSIONS APPEAR TO EXIST IN THESE DRAWINGS, SPECIFICATIONS, OR OTHER CONTRACT DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER OR ARCHITECT IN WRITING OF SUCH OMISSION OR ERROR BEFORE PROCEEDING WITH THE WORK.
 - NOTES AND DETAILS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NOTES AND DETAILS ON DRAWINGS AND THESE GENERAL NOTES AND TYPICAL DETAILS ARE IN CONFLICT WITH THE PROJECT SPECIFICATIONS, THE MOST STRINGENT SHALL APPLY. CONDITIONS NOT SPECIFICALLY SHOWN SHALL BE CONSTRUCTED AS SHOWN FOR SIMILAR WORK, SUBJECT TO REVIEW BY THE ARCHITECT AND STRUCTURAL ENGINEER.
 - MANUFACTURED MATERIALS SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO THEIR USE. ALL REQUIREMENTS OF THOSE APPROVALS SHALL BE FOLLOWED.
 - SEE ARCHITECTURAL DRAWINGS AND PROJECT SPECIFICATIONS FOR THE FOLLOWING:
 - SIZE AND LOCATION OF ALL DOOR AND WINDOW OPENINGS AND THRESHOLD REQUIREMENTS.
 - SIZE AND LOCATION OF ALL NON-BEARING PARTITIONS.
 - SIZE AND LOCATION OF ROOF, FLOOR AND WALL OPENINGS.
 - SIZE AND LOCATION OF DEPRESSED AREAS, CHANGES IN ELEVATION, FLOOR AND ROOF DRAINS, SLOPES, SLUPS, CONCRETE CURBS, LEDGES, PADS AND ISLANDS, CHAMFERS, GROOVES, INSERTS, EMBEDDED ITEMS, FINISH REQUIREMENTS, MISCELLANEOUS STEEL, ETC.
 - DIMENSIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS.
 - EXTERIOR WALL SYSTEMS.
 - SEE MECHANICAL, PLUMBING, ELECTRICAL AND OTHER SPECIALTY DRAWINGS AND PROJECT SPECIFICATIONS FOR THE FOLLOWING:
 - PIPE RUNS, SLEEVES, HANGERS, TRENCHES, WALL, ROOF AND FLOOR OPENINGS, ETC., NOT SHOWN OR NOTED.
 - ELECTRICAL CONDUIT RUNS, BOXES, OUTLETS IN WALLS AND SLABS.
 - ANCHORAGE AND BRACING FOR ELECTRICAL, MECHANICAL OR PLUMBING EQUIPMENT TO THE STRUCTURE.
 - ANCHOR BOLTS FOR MOTOR MOUNTS.
 - SIZE, WEIGHT, AND LOCATION OF MACHINES AND EQUIPMENT BASES.
 - FRAMING MEMBERS WHICH ARE NOT DIMENSIONED SHALL BE EQUALLY SPACED BETWEEN DIMENSIONED POINT OF MEMBERS.
 - OPENINGS, POCKETS, ETC. SHALL NOT BE PLACED IN STRUCTURAL MEMBERS UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS.
 - MATERIAL SPECIFICATIONS ARE ASTM LATEST EDITION.

SPECIAL STRUCTURAL INSPECTIONS:

- THE FOLLOWING ITEMS REQUIRE SPECIAL INSPECTION AND TESTING IN ACCORDANCE WITH IBC SECTION 1704A.2. THE SPECIAL INSPECTION AND TESTING SHALL BE PERFORMED BY A SPECIAL INSPECTOR IN CONTRACT WITH THE OWNER AND APPROVED BY THE ARCHITECT AND BUILDING OFFICIAL. THE FREQUENCY OF INSPECTION AND TESTING SHALL BE AS OUTLINED BELOW. DEFICIENCIES SHALL BE REPORTED TO THE CONTRACTOR ON A DAILY BASIS. SUMMARY REPORTS OF ALL INSPECTIONS AND TEST RESULTS SHALL BE DISTRIBUTED TO THE OWNER, ARCHITECT, STRUCTURAL ENGINEER AND BUILDING OFFICIAL WITH DEFICIENCIES CLEARLY NOTED.

ITEM	BUILDING CODE REFERENCE
STRUCTURAL STEEL	IBC 1705A.2.1
CONCRETE CONSTRUCTION	IBC 1705A.3
SOILS	IBC 1705A.6
POST-INSTALLED ANCHORAGE	PER ICC-ESR REPORT
- ARCHITECTURAL AND MECHANICAL/ELECTRICAL COMPONENTS SHALL BE INSPECTED PER IBC 1705A.12.5 AND IBC 1705A.12.6, RESPECTIVELY.



EXPIRES: 12/31/2022

CULINARY CLASSROOM
Westview High School - Beaverton School District
4200 NW 185th Ave, Portland, OR 97229

BID & PERMIT SET
02.18.21
REVISIONS

74-21106-00

STRUCTURAL NOTES

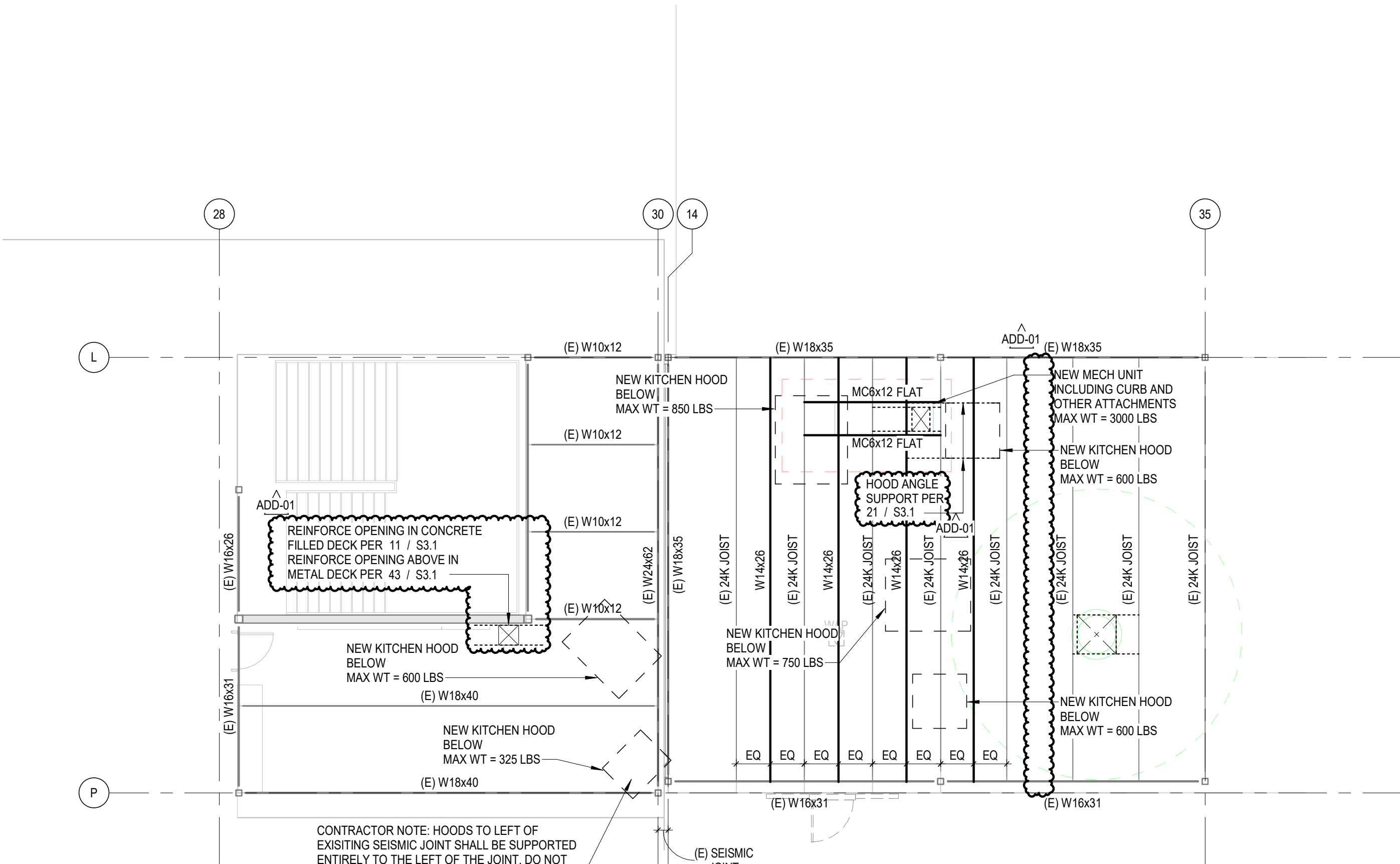
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PARTIAL FOUNDATION PLAN

SCALE: 1/8" = 1'-0"



PARTIAL FRAMING PLAN

SCALE: 1/8" = 1'-0"

FOUNDATION PLAN NOTES

1. FOR ANY DIMENSION INFORMATION NOT SHOWN, SEE ARCHITECTURAL DRAWINGS.
2. FOR ELEVATION OF FINISH FLOOR, SEE ARCHITECTURAL DRAWINGS.
3. SEE PLANS AND ARCHITECTURAL DRAWINGS FOR DEPRESSIONS, SLOPES, OPENINGS, DRAINS, TRENCHES, SLAB EDGE LOCATIONS.
4. GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND LOCATING ALL OPENINGS THROUGH THE SLAB INCLUDING BUT NOT LIMITED TO ELECTRICAL, MECHANICAL, PLUMBING, SPRINKLER AND TELEPHONE. SUBMIT TO THE STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO SUBMITTAL OF REINFORCING STEEL SHOP DRAWINGS.
5. CONTRACTOR SHALL VERIFY ALL EXISTING ELEMENTS AND DIMENSIONS IN FIELD.

FRAMING PLAN NOTES

1. FOR GENERAL NOTES, SEE SHEETS S0.1.
2. FOR ANY DIMENSION INFORMATION NOT SHOWN, SEE ARCHITECTURAL DRAWINGS.
3. SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR EXACT LOCATIONS OF MECHANICAL EQUIPMENT.
4. CONTRACTOR SHALL VERIFY ALL EXISTING ELEMENTS AND DIMENSIONS IN FIELD.



EXPIRES: 12/31/2022

CULINARY CLASSROOM

Westview High School - Beaverton School District
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74-21106-00

PARTIAL
FOUNDATION AND
FRAMING PLAN

S1.1

BIM 360://74-21106-00_Westview HS Culinary/74-21106-00_WHSC_ST_2020.rvt
3/15/2021 8:56:05 PM

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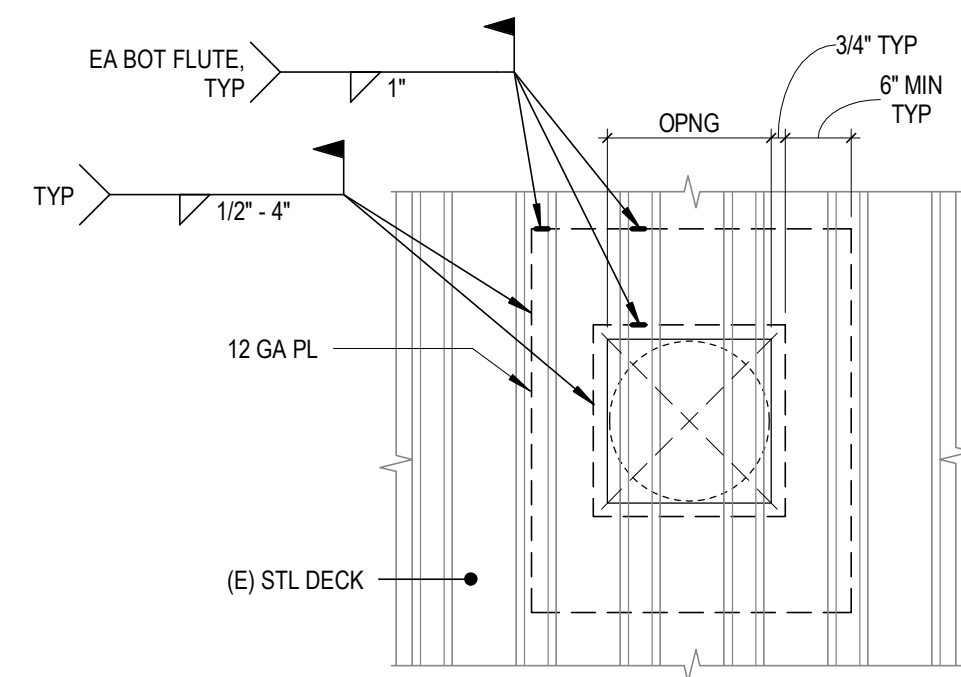
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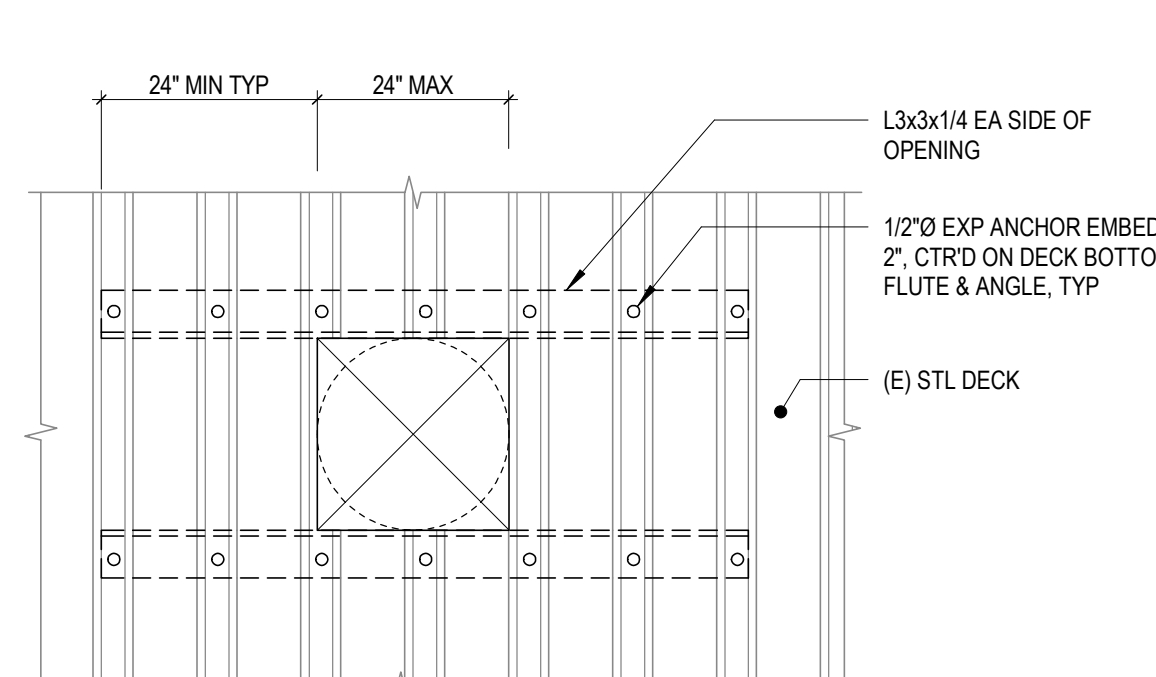
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NOTE: 6" DIA OR SMALLER SEE UNREINFORCED DECK OPENING DETAILS.

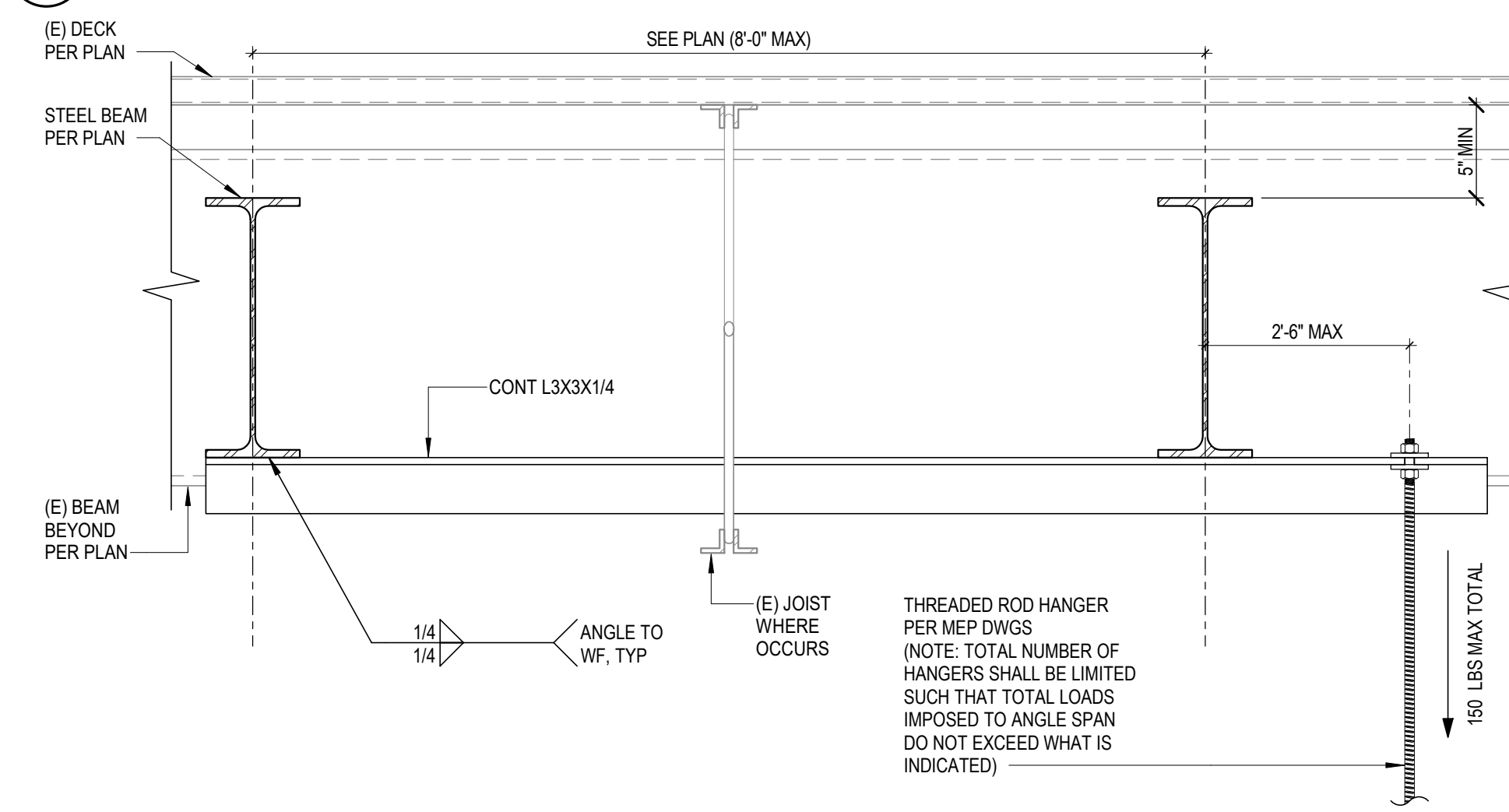
A DECK OPENINGS 7" TO 12"



B DECK OPENINGS 13" TO 24"

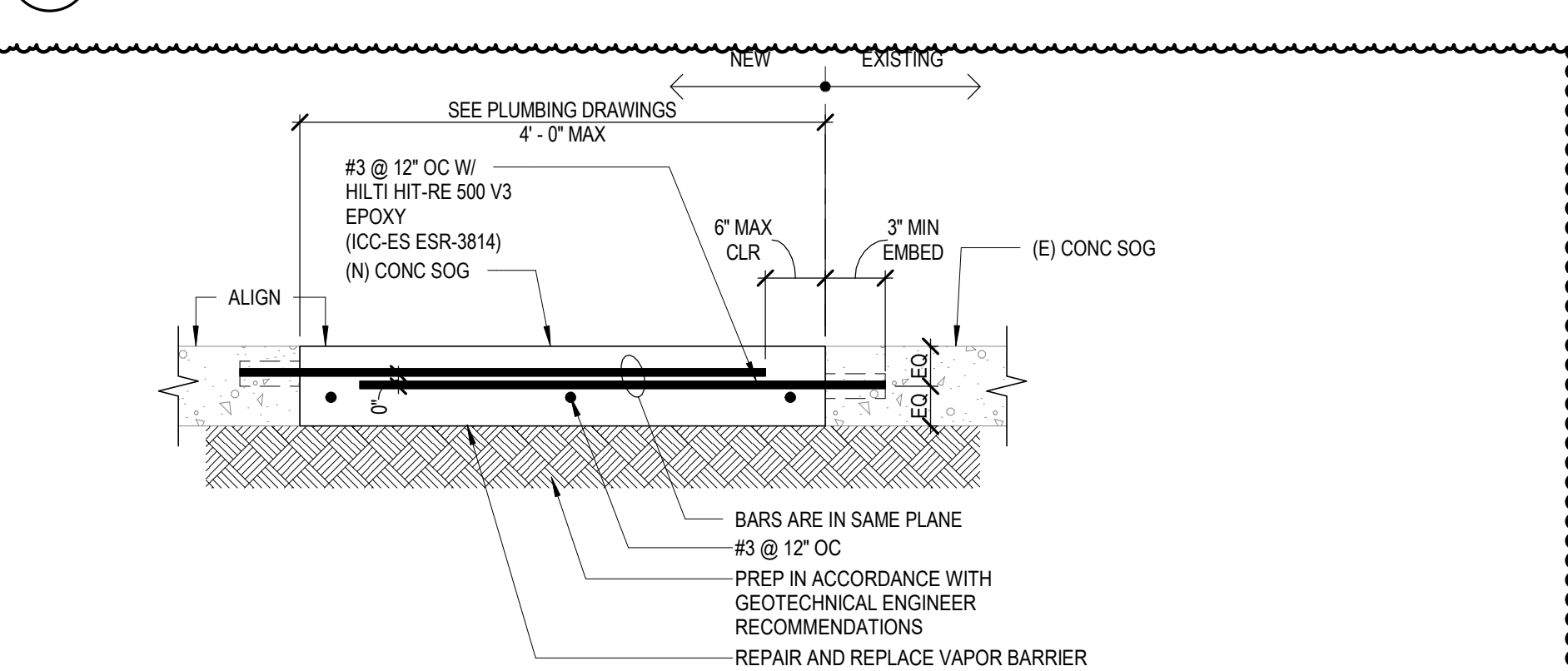
11 TYPICAL OPENING IN CONCRETE FILLED DECK

S3.1 SCALE: 1" = 1'-0"



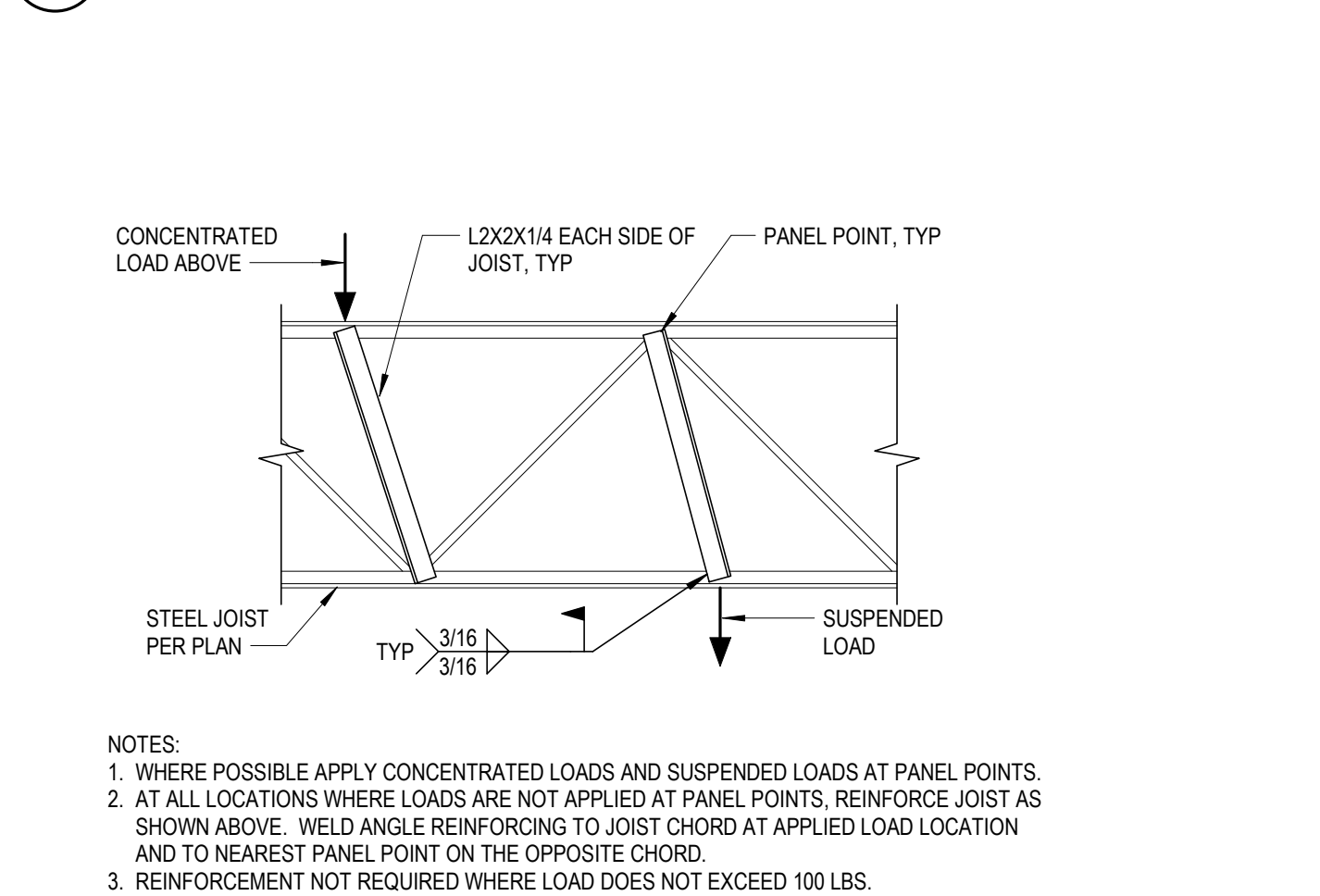
21 HOOD ANGLE SUPPORT

S3.1 SCALE: 1 1/2" = 1'-0"



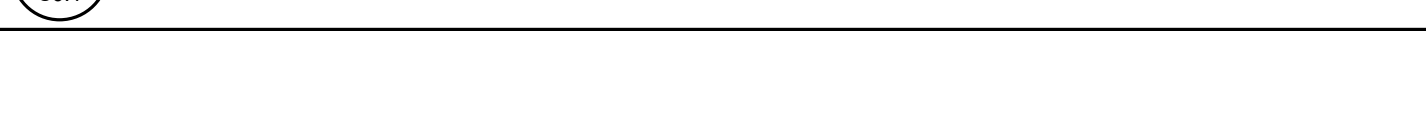
31 TYPICAL TRENCHING DETAIL

S3.1 SCALE: 1 1/2" = 1'-0"



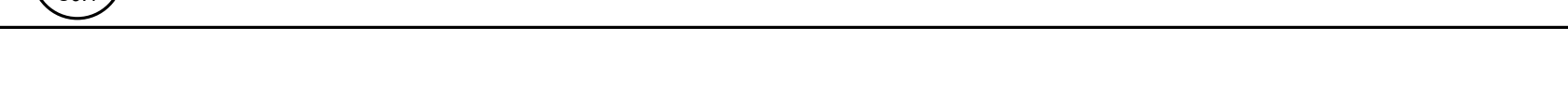
41 TYP JOIST REINF AT CONCENTRATED LOADS

S3.1 SCALE: 3/4" = 1'-0"



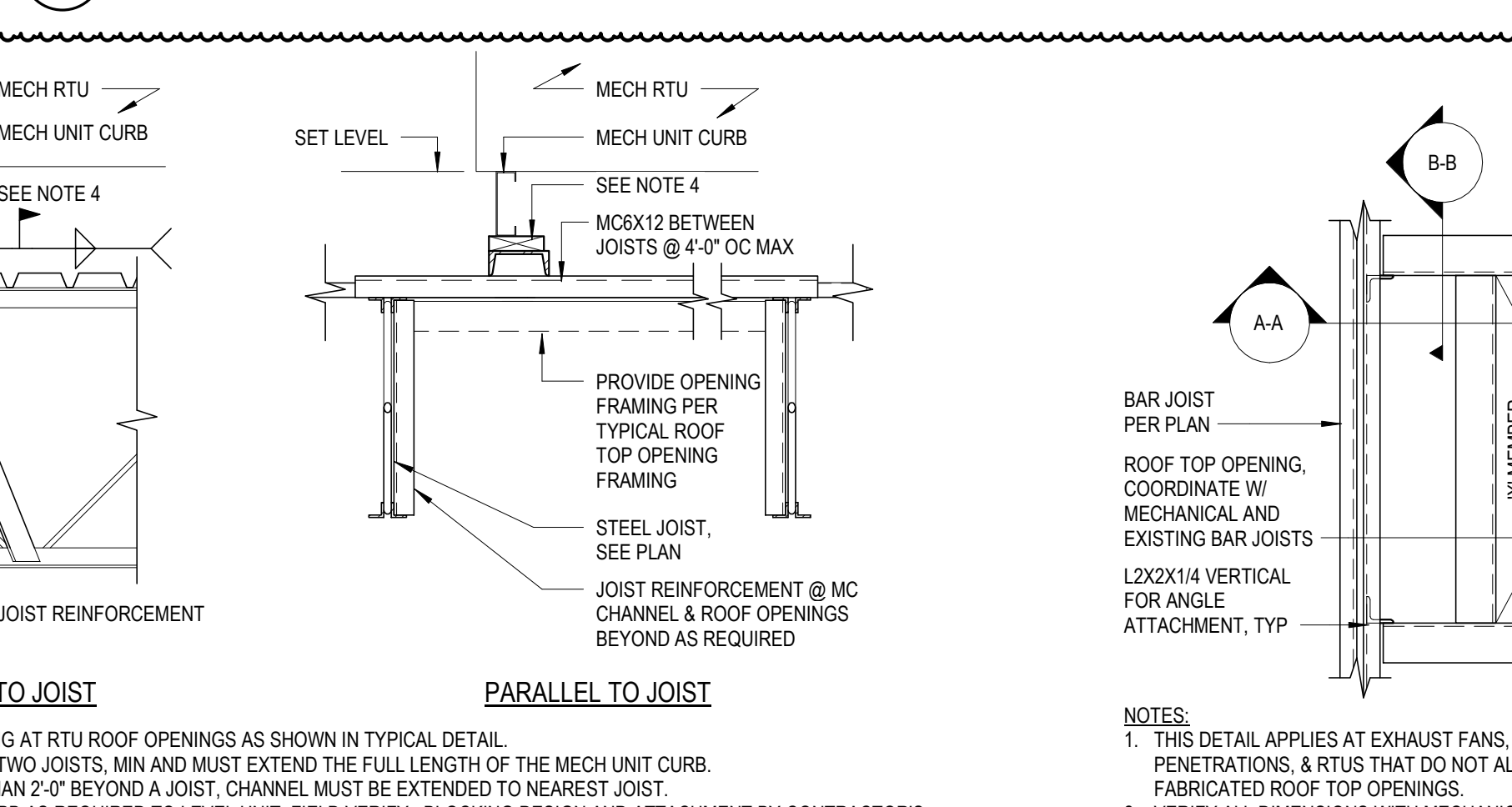
42 TYPICAL MECH RTU SUPPORT

S3.1 SCALE: 3/4" = 1'-0"



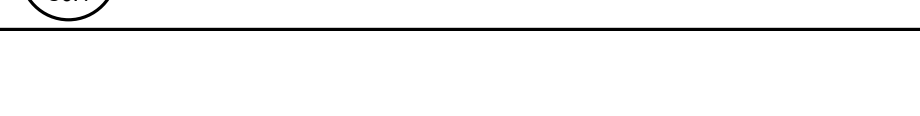
32 PONY WALL SUPPORT

S3.1 SCALE: 1 1/2" = 1'-0"



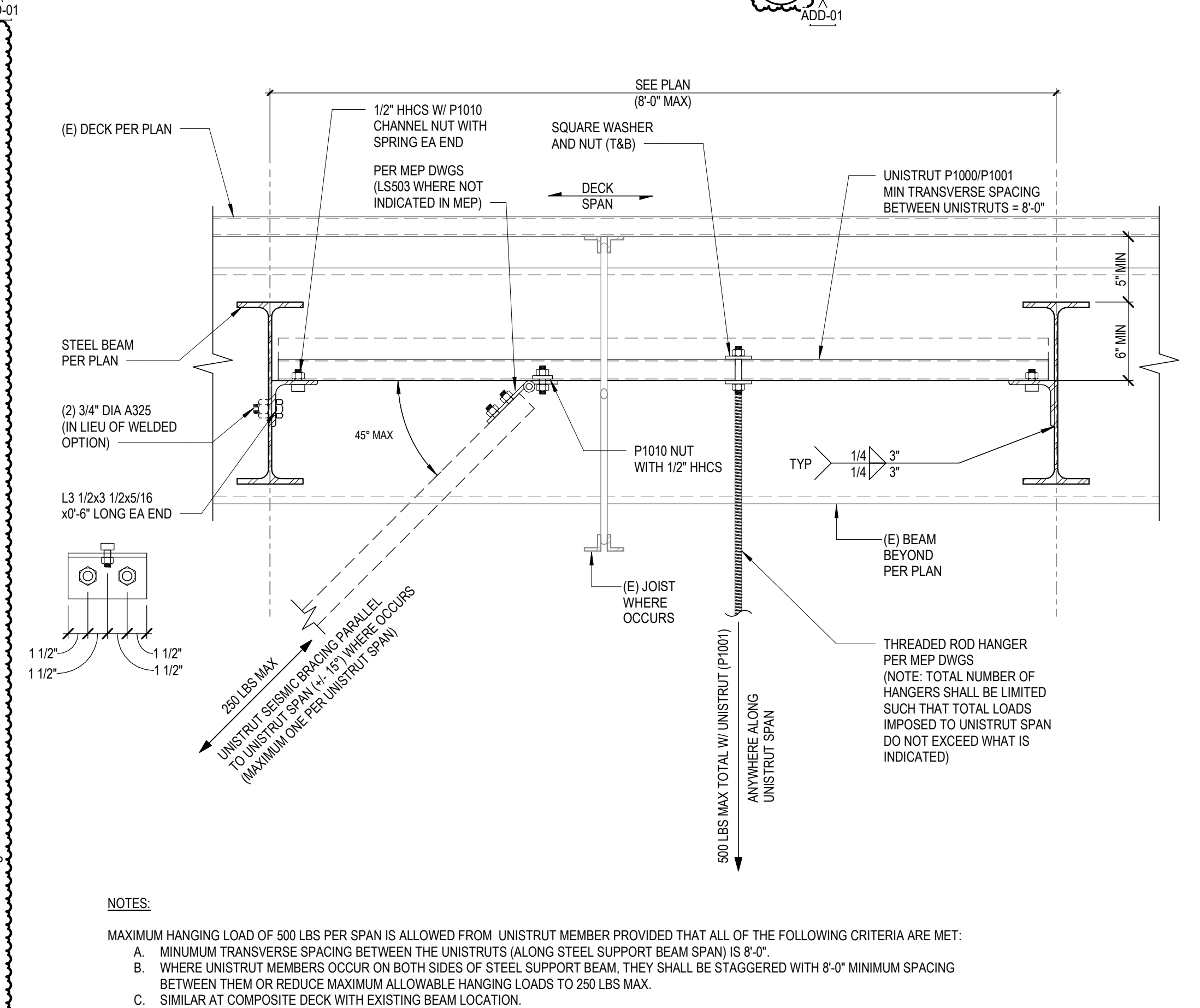
43 TYPICAL OPENING IN METAL DECK

S3.1 SCALE: 1" = 1'-0"



15 TYP BEAM TO BEAM CONNECTION

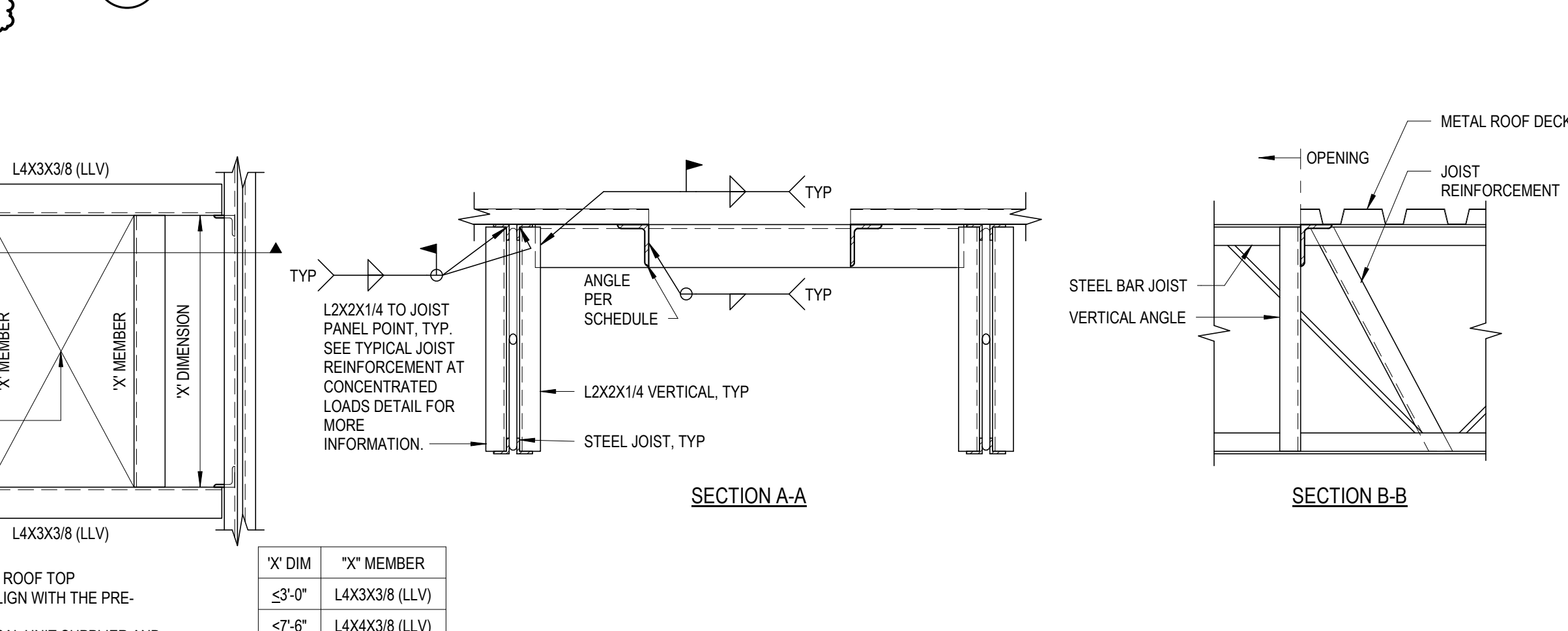
S3.1 SCALE: 1" = 1'-0"



A CONDITION 'A'
100 LBS < HANGING LOADS ≤ 500 LBS

34 TYPICAL MEP & HOOD HANGER/KICKER CONNECTION DETAIL AT BARE METAL DECK

S3.1 SCALE: 1 1/2" = 1'-0"



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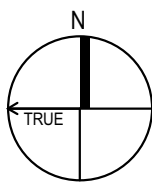
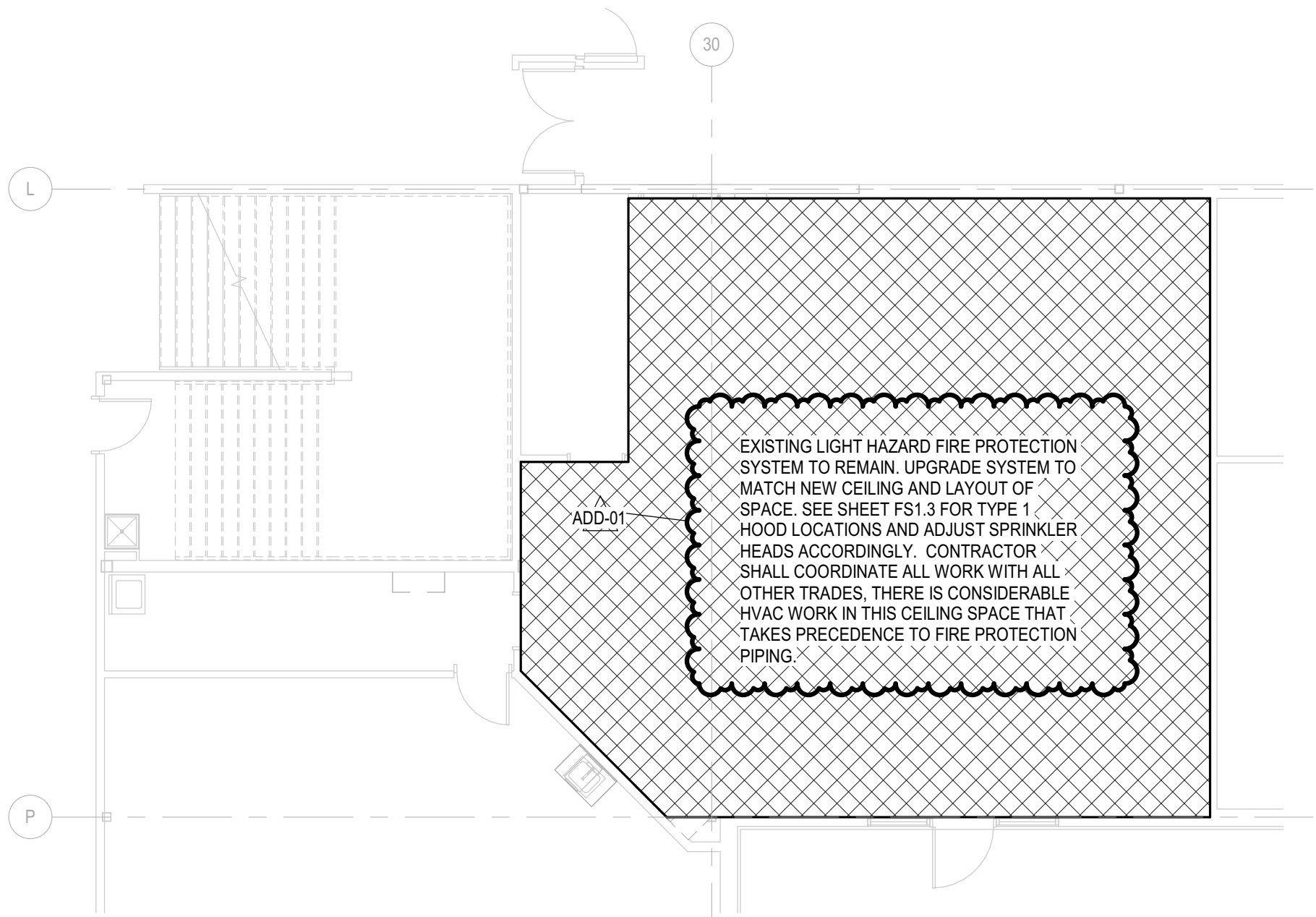
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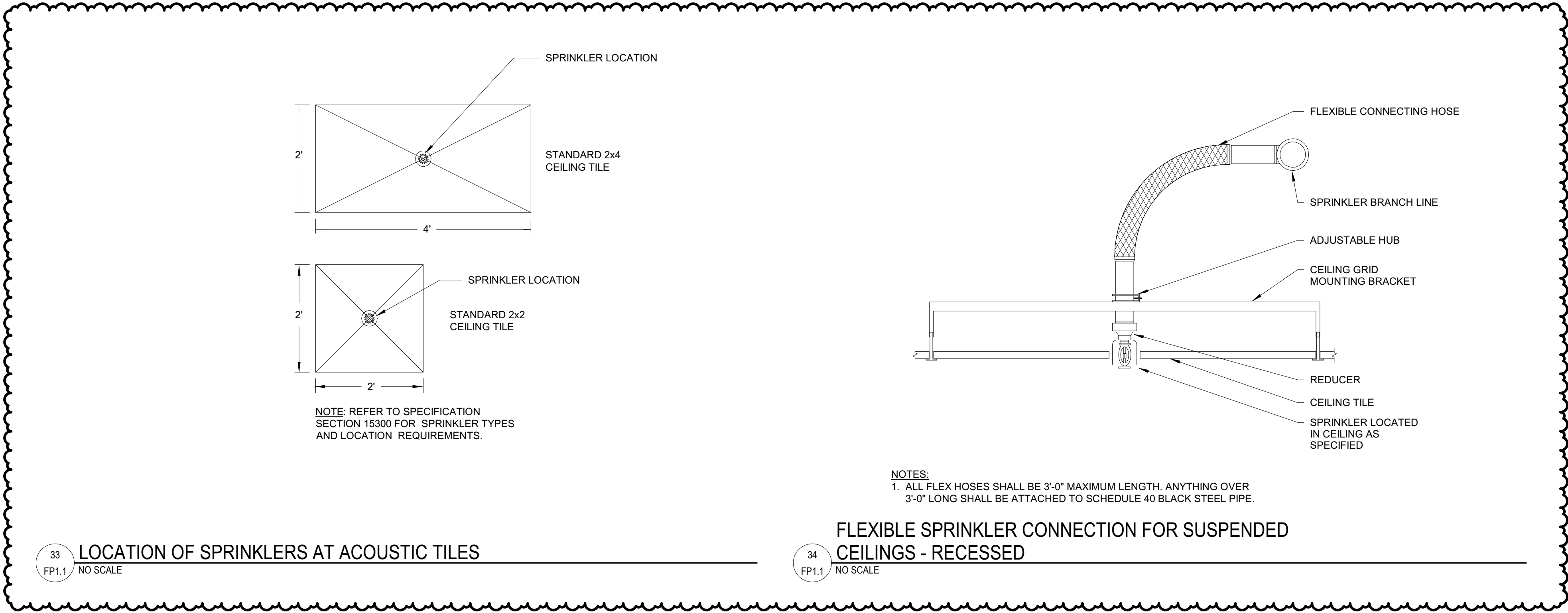
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FIRST LEVEL FIRE PROTECTION PLAN

SCALE: 1/8" = 1'-0"



33
FP1.1

LOCATION OF SPRINKLERS AT ACOUSTIC TILES

NO SCALE

34
FP1.1

FLEXIBLE SPRINKLER CONNECTION FOR SUSPENDED CEILINGS - RECESSED

NO SCALE



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OVERALL FIRST FLOOR FIRE PROTECTION PLAN

FP1.1

A

AB

C

SHEET INDEX

SHEET INDEX

D

 POINT OF DISCONNECT - DEMOLITION REMAINING
 POINT OF CONNECTION - NEW CONNECTIONS

E

SCHEMATIC	3D	DESCRIPTION
		HORIZONTAL BEAM

ALL OF NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET.

THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.

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MECHANICAL SYMBOLS & ABBREVIATIONS

M0.1A

A

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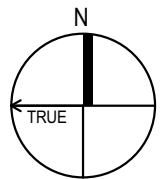
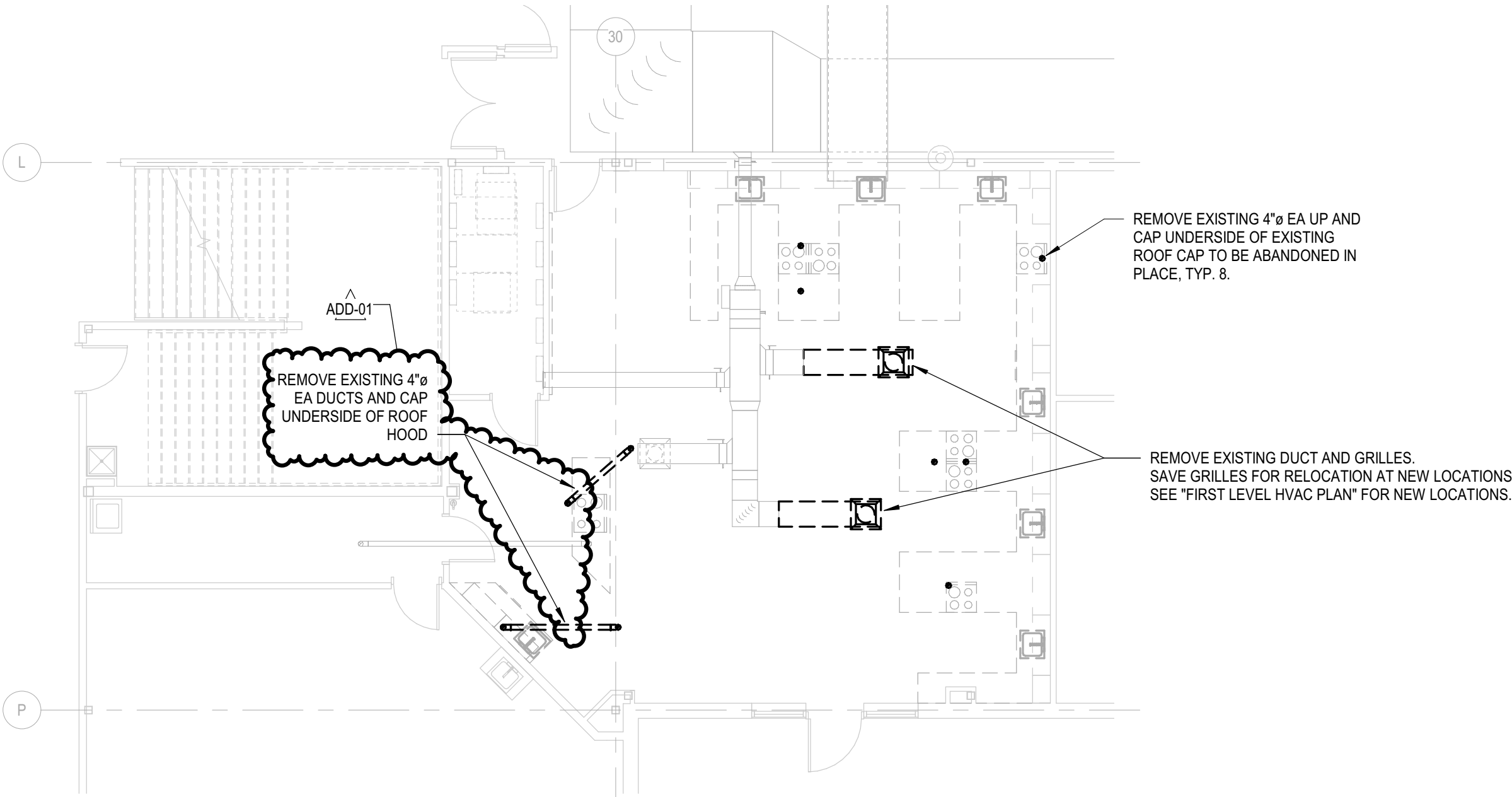
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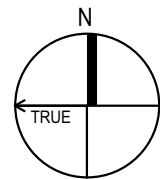
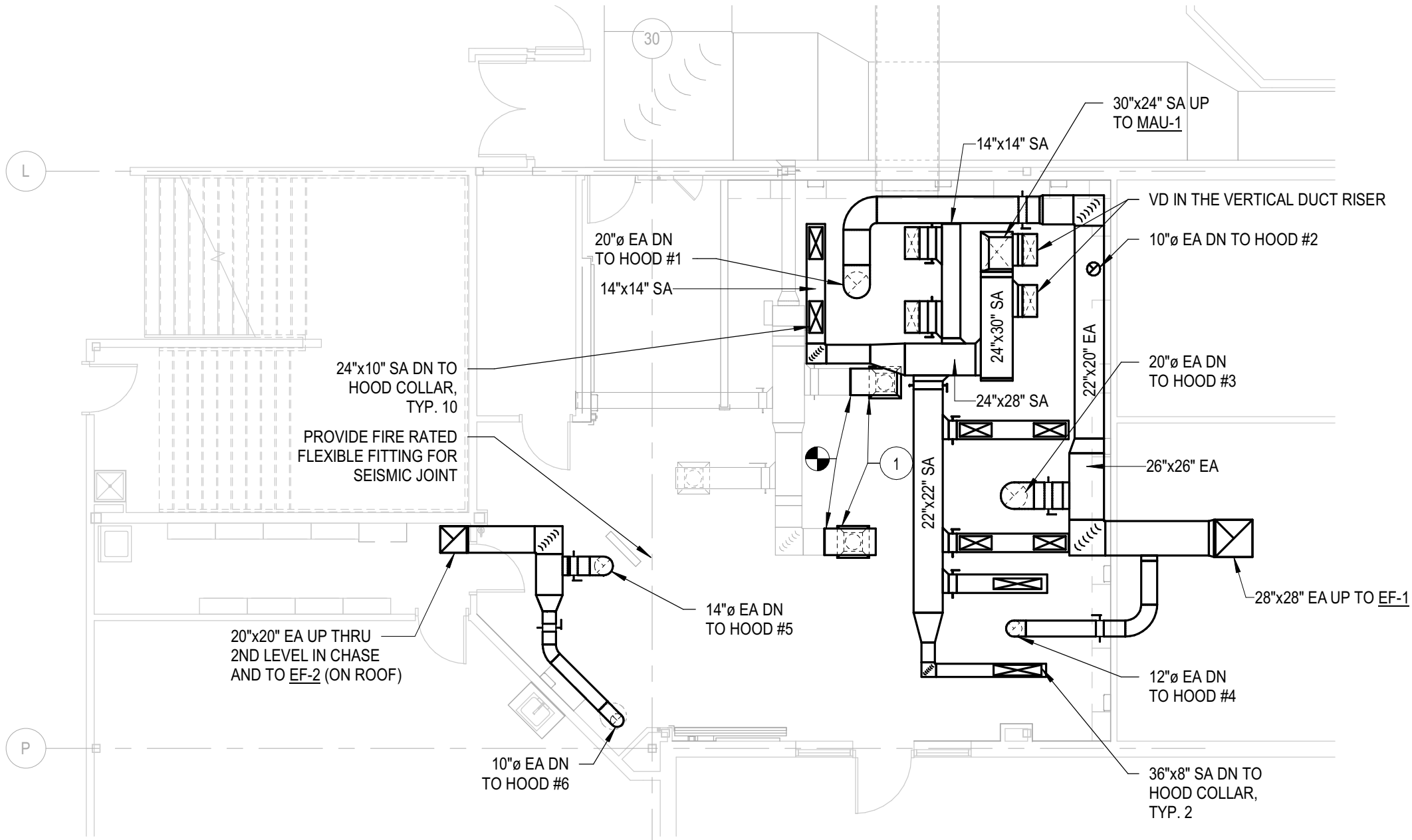
SHEET NOTES

1 RELOCATED EXISTING GRILLES.



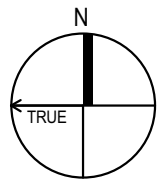
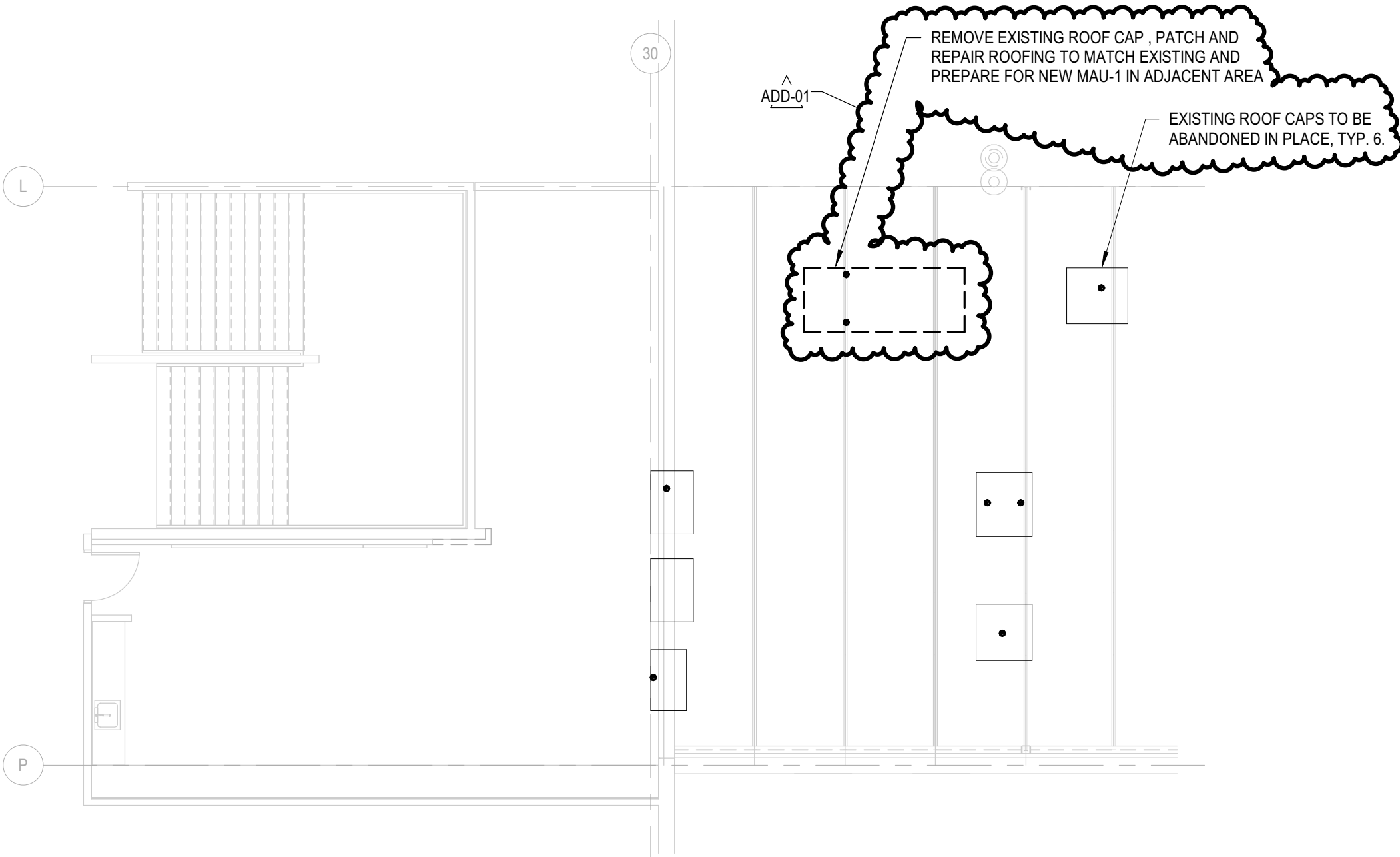
FIRST LEVEL HVAC DEMOLITION PLAN

SCALE: 1/8" = 1'-0"



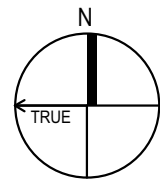
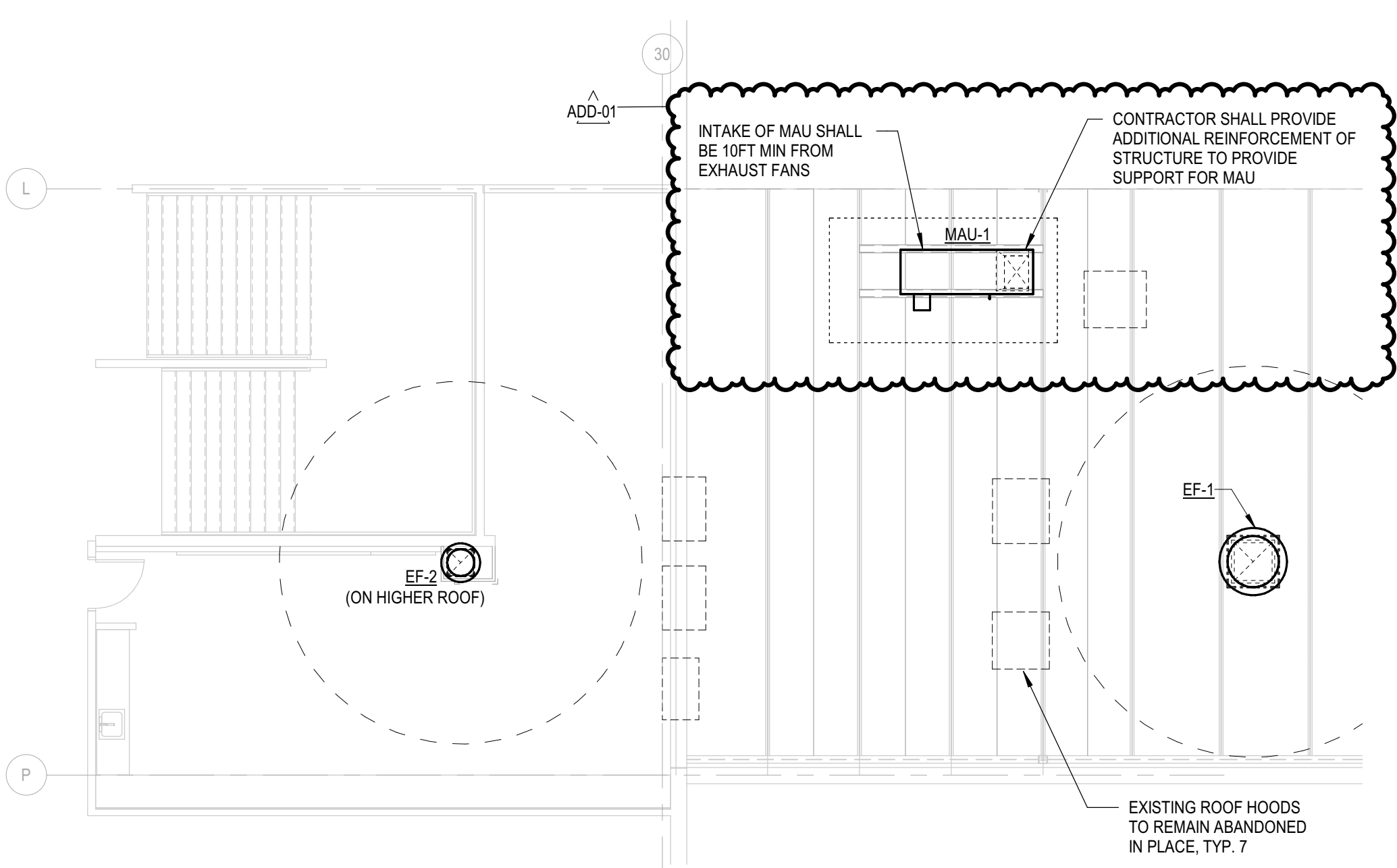
FIRST LEVEL HVAC PLAN

SCALE: 1/8" = 1'-0"



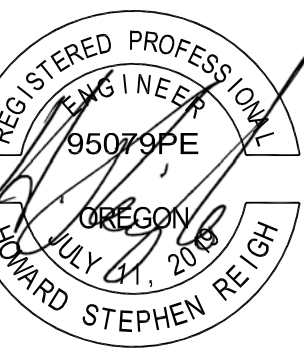
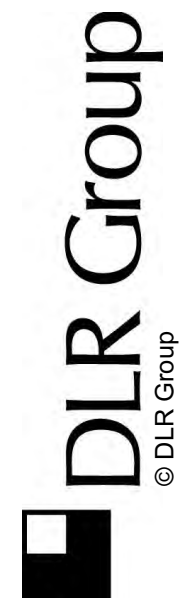
SECOND LEVEL HVAC DEMOLITION PLAN

SCALE: 1/8" = 1'-0"



SECOND LEVEL HVAC PLAN

SCALE: 1/8" = 1'-0"



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74-21106-00
HVAC PLANS

M1.1

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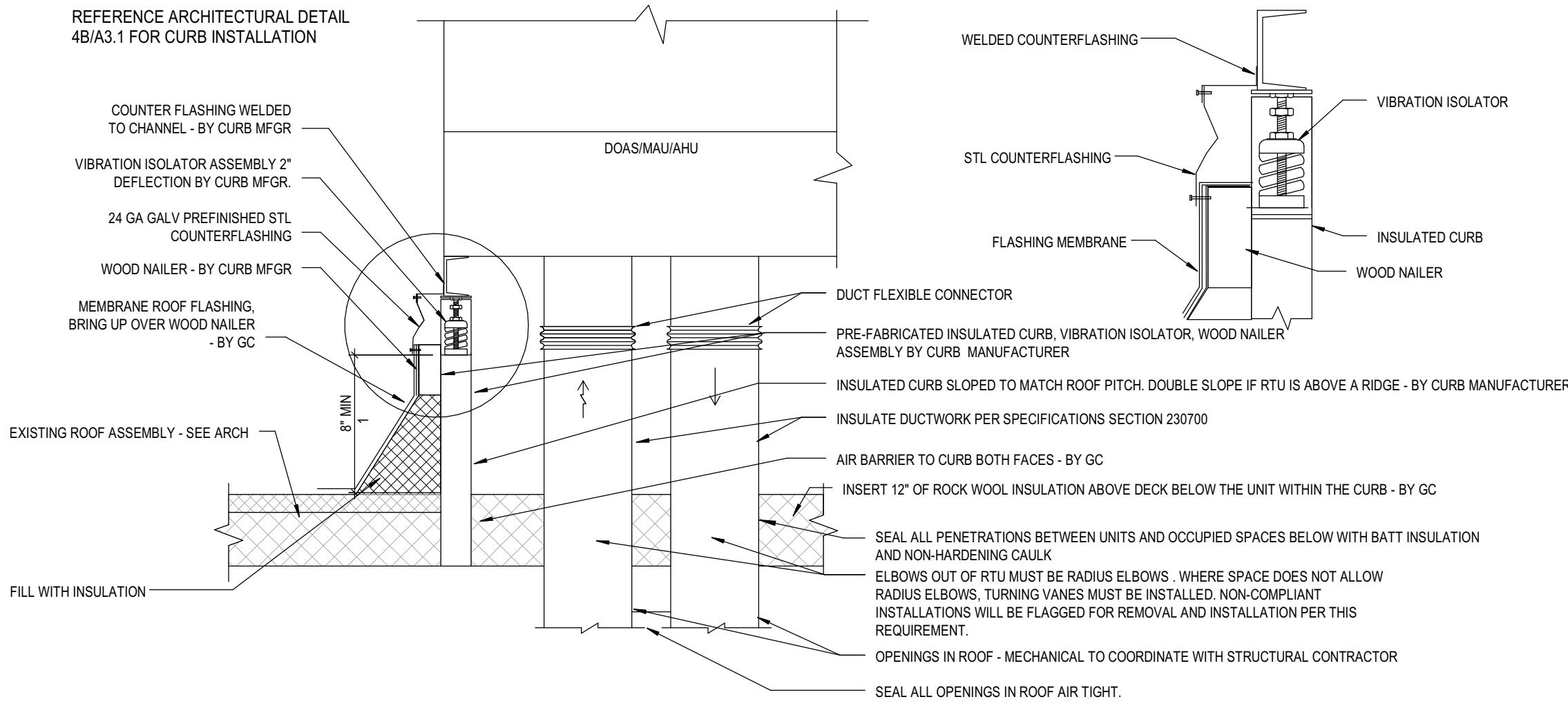
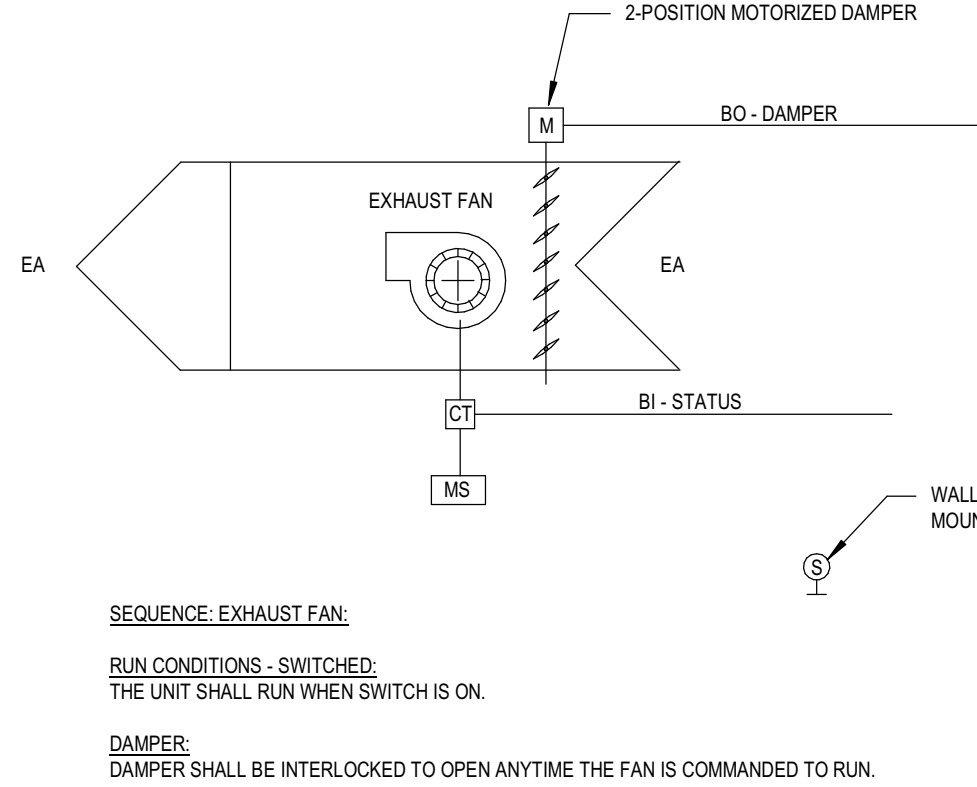
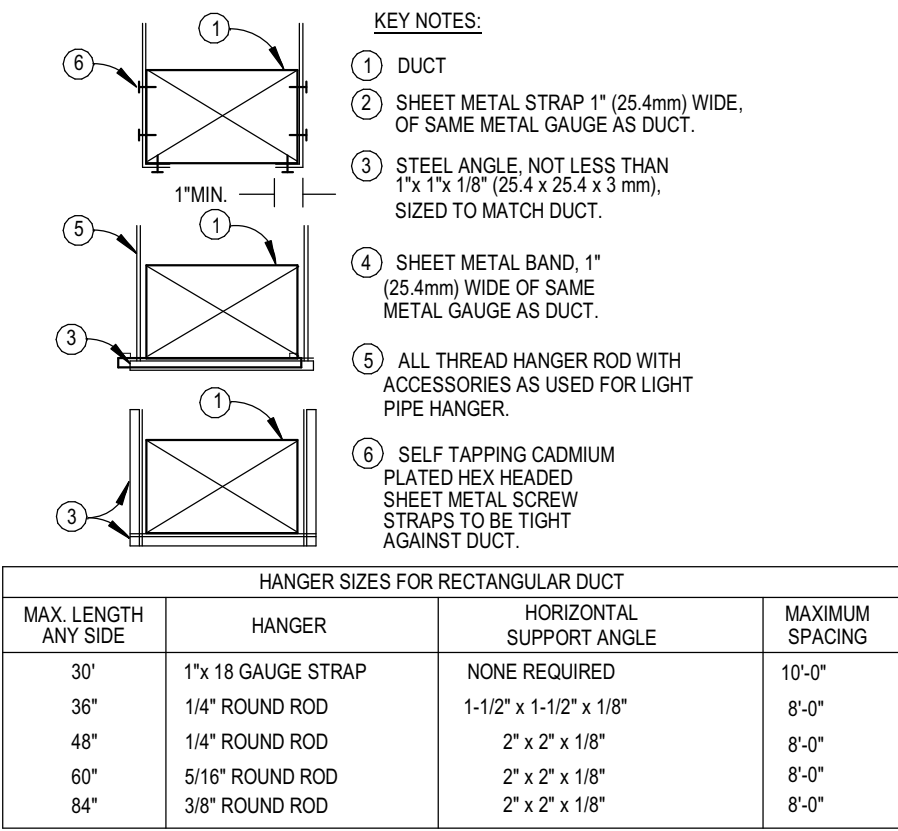
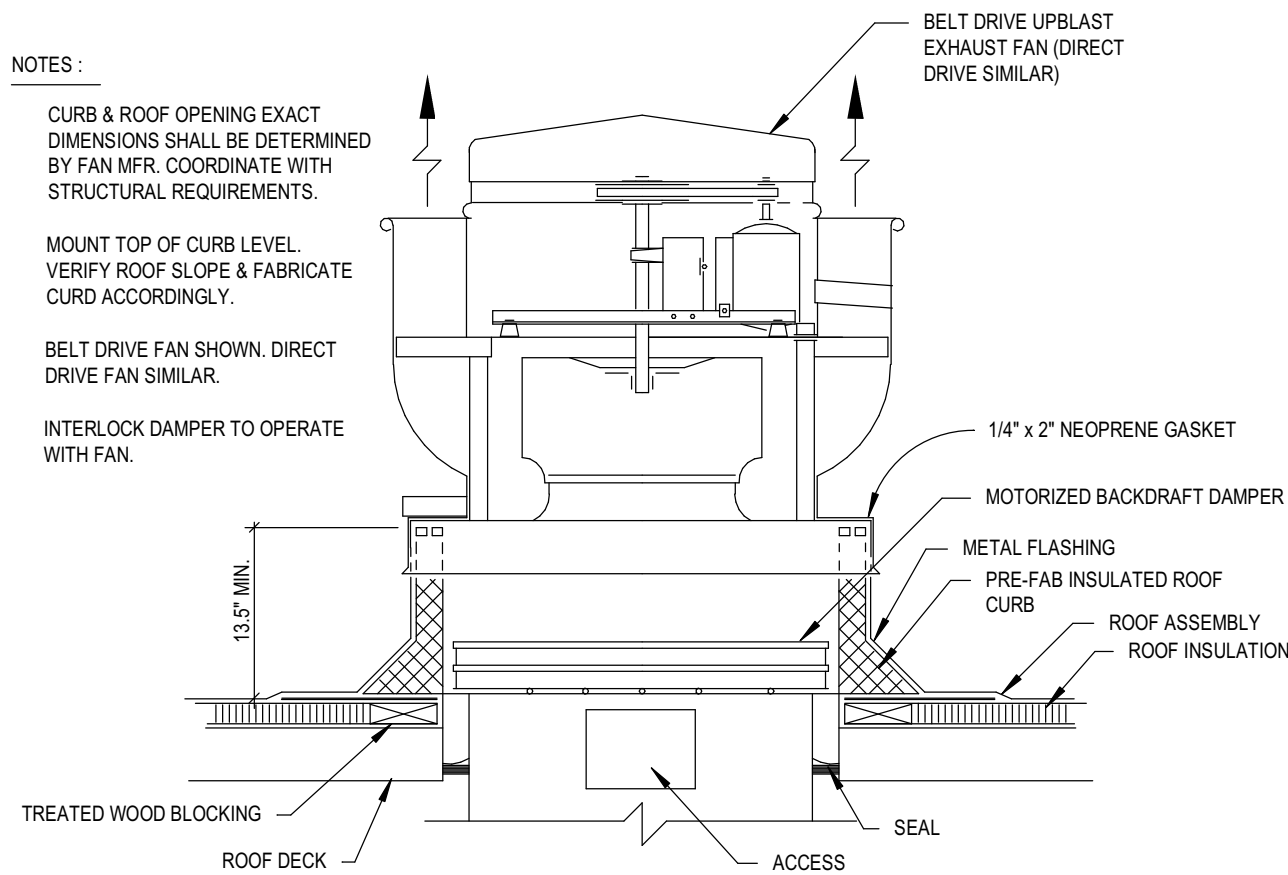
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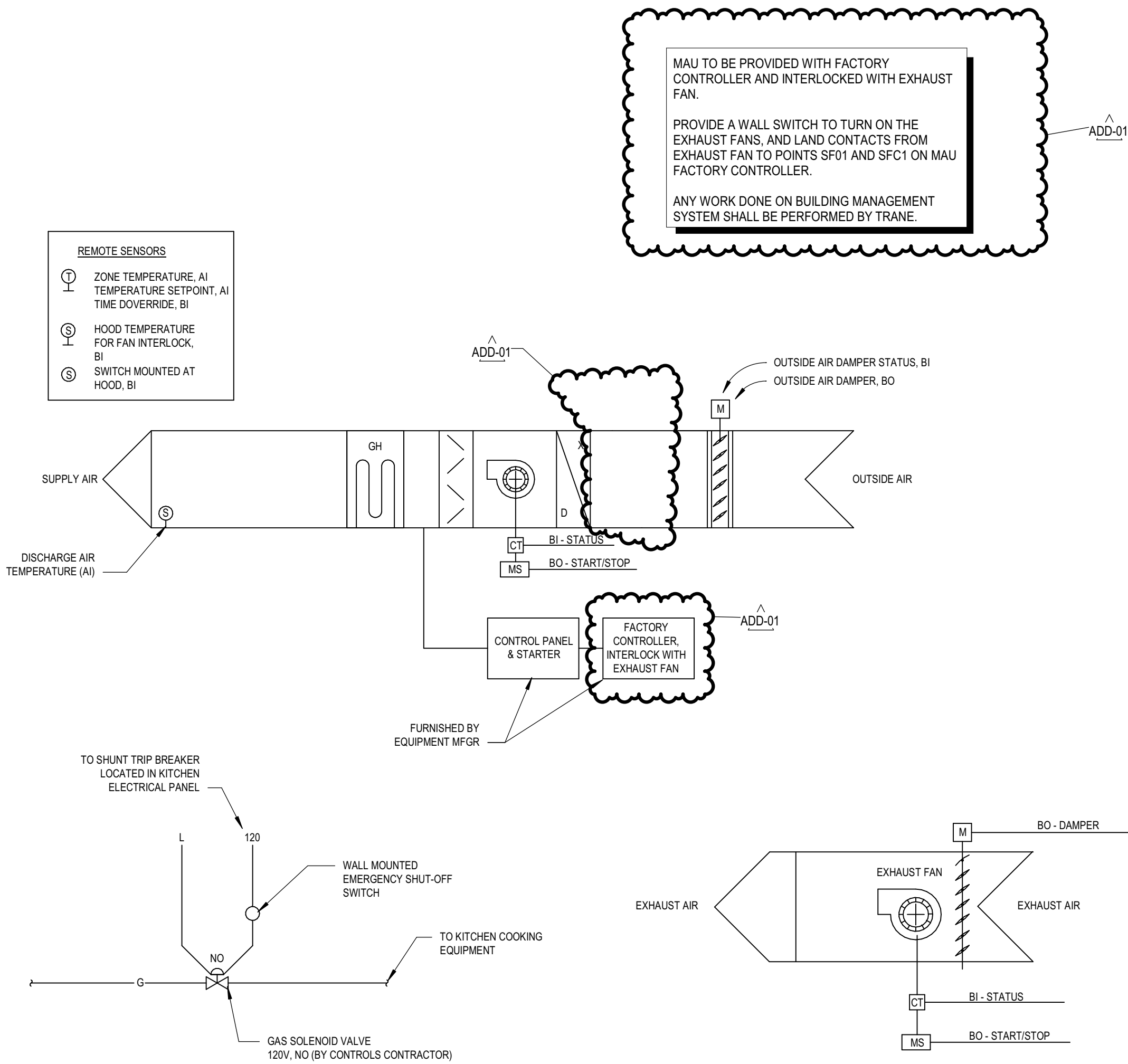
1 UPBLAST CENTRIFUGAL ROOF FAN DETAIL
M5.1 NO SCALE

2 DUCT HANGING DETAIL
M5.1 NO SCALE

3 EXHAUST FAN - SWITCHED (EF-2)
M5.1 NO SCALE

4 MAU MOUNTING DETAIL
M5.1 NO SCALE

3



4

5 MAKE-UP AIR UNIT & KITCHEN EXHAUST FAN (MAU-1/EF-1)
M5.1 NO SCALE

EXHAUST FAN (EF-1)

EXHAUST FAN SHALL RUN WHEN COMMANDED BY LOCAL OPERATOR SWITCH LOCATED AT HOOD OR WHEN HOOD TEMPERATURE INTERLOCK INDICATES THE PRESENCE OF HEAT. SWITCH WITH PILOT LIGHT BY DIV. 230900.

ALARMS SHALL BE PROVIDED AS FOLLOWS:

- EXHAUST FAN FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
- EXHAUST FAN IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.
- EXHAUST FAN RUNTIME EXCEEDED: STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT (ADJ.).

EXHAUST AIR DAMPER:

THE EXHAUST AIR DAMPER SHALL OPEN ANYTIME THE FAN RUNS AND SHALL CLOSE ANYTIME THE FAN STOPS. THE EXHAUST AIR DAMPER SHALL CLOSE 30 SEC (ADJ.) AFTER THE FAN STOPS.

INDIRECT GAS FIRED MAKEUP AIR UNIT SEQUENCE OF OPERATIONS (MAU-1)

RUN CONDITIONS - SCHEDULED:

THE UNIT SHALL RUN ANYTIME EF-1 IS ENERGIZED. THE UNIT SHALL RUN ACCORDING TO A USER DEFNABLE TIME SCHEDULE IN THE FOLLOWING MODES:

OCCUPIED MODE: THE UNIT SHALL MAINTAIN

- 75°F (ADJ.) COOLING SETPOINT.
- 70°F (ADJ.) HEATING SETPOINT.

UNOCCUPIED MODE (NIGHT SETBACK): THE UNIT SHALL MAINTAIN

- 85°F (ADJ.) COOLING SETPOINT.
- 55°F (ADJ.) HEATING SETPOINT.

ALARMS SHALL BE PROVIDED AS FOLLOWS:

- HIGH ZONE TEMP: IF THE ZONE TEMPERATURE IS GREATER THAN THE COOLING SETPOINT BY A USER DEFINABLE AMOUNT (ADJ.).
- LOW ZONE TEMP: IF THE ZONE TEMPERATURE IS LESS THAN THE HEATING SETPOINT BY A USER DEFINABLE AMOUNT (ADJ.).

ZONE SETPOINT ADJUST:

THE OCCUPANT SHALL BE ABLE TO ADJUST THE ZONE TEMPERATURE HEATING AND COOLING SETPOINTS AT THE ZONE SENSOR.

THE SUPPLY FAN SHALL RUN ANYTIME THE UNIT IS COMMANDED TO RUN. TO PREVENT SHORT CYCLING, THE SUPPLY FAN SHALL HAVE A USER DEFINABLE (ADJ.) MINIMUM RUNTIME, UNLESS SHUTDOWN ON SAFETIES.

ALARMS SHALL BE PROVIDED AS FOLLOWS:

- SUPPLY FAN FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
- SUPPLY FAN IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.
- SUPPLY FAN RUNTIME EXCEEDED: STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT (ADJ.).

MAU SUPPLY FAN VFD SHALL BE SET AT CONSTANT SPEED. VFD SHALL BE INITIALLY USED FOR BALANCING.

TEMPERATURE CONTROL

TEMPERATURE DIFFERENTIAL BETWEEN MAKE UP AIR AND SPACE TEMPERATURE SETPOINT SHALL NOT EXCEED 10 DEG F.

GAS FURNACE:

THE CONTROLLER SHALL MEASURE THE SUPPLY AIR TEMPERATURE AND MODULATE THE GAS VALVE TO MAINTAIN ITS HEATING SETPOINT AND MINIMUM SUPPLY AIR TEMPERATURE. DISCHARGE AIR TEMPERATURE SHALL BE LIMITED TO 85°F (ADJ.)

THE HEATING SHALL BE ENABLED WHENEVER:

- OUTSIDE AIR TEMPERATURE IS LESS THAN 65°F (ADJ.).
- AND THE SUPPLY AIR TEMPERATURE IS BELOW HEATING SETPOINT.
- AND THE FAN STATUS IS ON.

DX COOLING:

THE UNITS DX SYSTEM SHALL OPERATE ON INTERNAL CONTROLS TO MAINTAIN THE TEMPERATURE SETPOINT AS DETERMINED BY THE SPACE TEMPERATURE SENSOR.

THE COOLING SHALL BE ENABLED WHENEVER:

- OUTSIDE AIR TEMPERATURE IS GREATER THAN 80°F.
- AND THE ZONE TEMPERATURE IS BELOW COOLING SETPOINT.
- AND THE SUPPLY FAN STATUS IS ON.
- AND THE HEATING IS NOT ACTIVE.

CONTROL POINTS:

ANY CONTROL POINT NOT MADE AVAILABLE BY THE UNIT CONTROLLER TO EMCS SHALL BE HARDWIRED IN THE FIELD TO PROVIDE INDICATED INFORMATION.

ADD-01

PROVIDE AN ALARM FOR ICE MACHINE CONDENSATE OVERFLOW DETECTION SWITCH LOCATED NEXT TO CULINARY CLASSROOM

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EXHAUST FAN

INFORMATION

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP		VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SONES
1	EX 36 35 33 32	1	DU300HFA	CAPTIVEAIRE	7512	1.750	822	TEFC,PREMIUM	7.500	3.9540	3	460	11.1	1170 FPM	670	19.3
2	ITEM 15 21 EX	1	DU180HFA	CAPTIVEAIRE	2700	1.500	1261	ODP,PREMIUM	3.000	1.4050	3	460	4.3	624 FPM	186	17.6

CONDENSER

DETAILS

FAN UNIT NO	TAG	FAN UNIT MODEL #	CONDENSER NO	TONNAGE	VOLTAGE	PHASE	FREQUENCY	MCA	RLA	MAX FUSE SIZE	MIN WIRE SIZE	SEER
3	MAU 36 35 33 32	A3-D.500-25Z-MPU	1	5	460	3 PHASE	60 HZ	10.5 AMPS	8.5 AMPS	15 AMPS	14 AWG	14
			2	5	460	3 PHASE	60 HZ	10.5 AMPS	8.5 AMPS	15 AMPS	14 AWG	14
			3	5	460	3 PHASE	60 HZ	10.5 AMPS	8.5 AMPS	15 AMPS	14 AWG	14

MUA FAN

INFORMATION

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	BLOWER	HOUSING	MIN CFM	DESIGN CFM	ESP	RPM	MOTOR ENCL	HP	BHP		VOLT	FLA	MCA	MOCP	WEIGHT (LBS)	SONES
3	MAU 36 35 33 32	1	A3-D.500-25Z-MPU	25Z-3-MOD	A3-D.500	5400	6008	0.500	1662	ODP-ECM	7.250	5.7440	3	460	7.3	9.7A	15A	2435	18.6

COILS

FAN UNIT NO	TAG	COIL TYPE	DESIGN CFM	COOLING												HEATING							
				ENTERING DB TEMP	ENTERING WB TEMP	LEAVING DB TEMP	LEAVING WB TEMP	ENTERING FLUID TEMP	LEAVING FLUID TEMP	FLUID FLOW RATE	PERCENT GLYCOL	TOTAL CAPACITY	SENSIBLE CAPACITY	LATENT CAPACITY	ENTERING DB TEMP	LEAVING DB TEMP	ENTERING FLUID TEMP	LEAVING FLUID TEMP	FLUID FLOW RATE	PERCENT GLYCOL	STEAM PRESSURE	TOTAL CAPACITY	SENSIBLE CAPACITY
3	MAU 36 35 33 32	DX	6008	92.0°F	67.0°F	71.6°F	60.1°F	---	---	---	---	126.8 MBH	126.8 MBH	0.0 MBH	---	---	---	---	---	---	---	---	---

GAS FIRED

MAU

FAN UNIT NO	TAG	INPUT BTUs	OUTPUT BTUs	TEMP RISE	REQUIRED INPUT GAS PRESSURE	GAS TYPE	BURNER EFFICIENCY(%)
3	MAU 36 35 33 32	331545	305021	48°F	7 IN. W.C. - 14 IN. W.C.	NATURAL	92

FAN

OPTIONS

FAN UNIT NO	TAG	QTY	DESCRIPTION
1	EX 36 35 33 32	1	GREASE BOX.
		1	LOAD REACTOR MOUNTED IN FAN.
2	ITEM 15 21 EX	1	GREASE BOX.
		1	FAN BASE CERAMIC SEAL - INSTALLED AT PLANT - FOR GREASE DUCTS.
3	MAU 36 35 33 32	1	LOAD REACTOR MOUNTED IN FAN.
		1	AC INTERLOCK RELAY - 24VAC COIL.
		1	MOTORIZED BACKDRAFT DAMPER FOR A3-D HOUSING. MEETS AMCA CLASS 1A RATING.
		1	LOW FIRE START.
		1	INLET PRESSURE GAUGE, 0-35".
		1	MANIFOLD PRESSURE GAUGE, -5 TO 15" WC.
		1	DOUBLE WALL STEEL LINER- SIZE 3 DIRECT DRIVE.
		1	FREEZE STAT (0.15 TON 3 CIRCUIT (5/5/5) MODULAR PACKAGED COOLING OPTION FOR SIZE 3 DF/EH MUA.
		1	(5,400 TO 7,000 CFM), 460V, 3 PHASE. COOLING THERMOSTAT OR PROGRAMMABLE STAT REQUIRED FOR PROPER OPERATION.
		1	DOWNTURN PLENUM FOR SIZE 3 DX COIL MODULE.
		1	CONDENSER SUPPORT FOR SIZE 3, 15 TON MOD PACKAGE UNIT.
		1	MERV 13 FILTER OPTION FOR SIZE 3 MIXING BOX OR CONDENSER SUPPORT. MIXING BOX OR
		1	CONDENSER SUPPORT MUST BE SELECTED FOR THIS OPTION.
		1	COOLING THERMOSTAT AND RELAY (NOT REQ FOR EVAP).

FAN

ACCESSORIES

FAN UNIT NO	TAG	EXHAUST			SUPPLY			
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT
1	EX 36 35 33 32	YES						
2	ITEM 15 21 EX	YES						
3	MAU 36 35 33 32						YES	

CURB

ASSEMBLIES

NO	ON FAN	TAG	WEIGHT	ITEM	SIZE
1	# 1	EX 36 35 33 32	75 LBS	CURB	38.500"W X 38.500"L X 30.000"H VENTED.
2	# 2	ITEM 15 21 EX	34 LBS	CURB	26.500"W X 26.500"L X 30.000"H VENTED HINGED.
3	# 3	MAU 36 35 33 32	166 LBS	CURB	35.000"W X 84.000"L X 30.000"H INSULATED.
	# 3			RAIL	6.000"W X 35.000"L X 30.000"H.
	# 3			RAIL	6.000"W X 35.000"L X 30.000"H.

FAN SOUND

DATA

FAN UNIT NO	TAG	MOTOR	SOUND DATA			OCTAVE BAND SOUND DATA								
			LWA	SONES @ 5 FT	DBA @ 5 FT	DISTANCE (FT)	63 HZ	125 HZ	250 HZ	500 HZ	1 KHZ	2 KHZ	4 KHZ	8 KHZ
1	EX 36 35 33 32	EXHAUST	81.1	19.3	69.6	5	79.4	90.9	83.3	75.7	73.8	68.9	64.4	59.6
2	ITEM 15 21 EX	EXHAUST	81.5	17.6	70	5	75.9	80.1	87.5	77.4	70.4	68.3	62.2	56.4
3	MAU 36 35 33 32	SUPPLY	81.4	18.6	69.9	5	76.1	83.4	83.4	77.7	74.8	72.2	69.9	67.4

Westview HS R5
PORTLAND, OR, 97229

2/5/2021

4727014

JDC-85

3/4" =
1'-0"

MASTER DRAWING

6

CAPTIVEAIRE

Seattle Office

1309 Pacific Ave, Everett, WA 98201 PHONE: (425) 212-5986 FAX: (425) 212-5988 EMAIL: reg55@captiveaire.com

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MECHANICAL
EQUIPMENT AND
SCHEDULES

M5.2

DLR Group
© DLR Group



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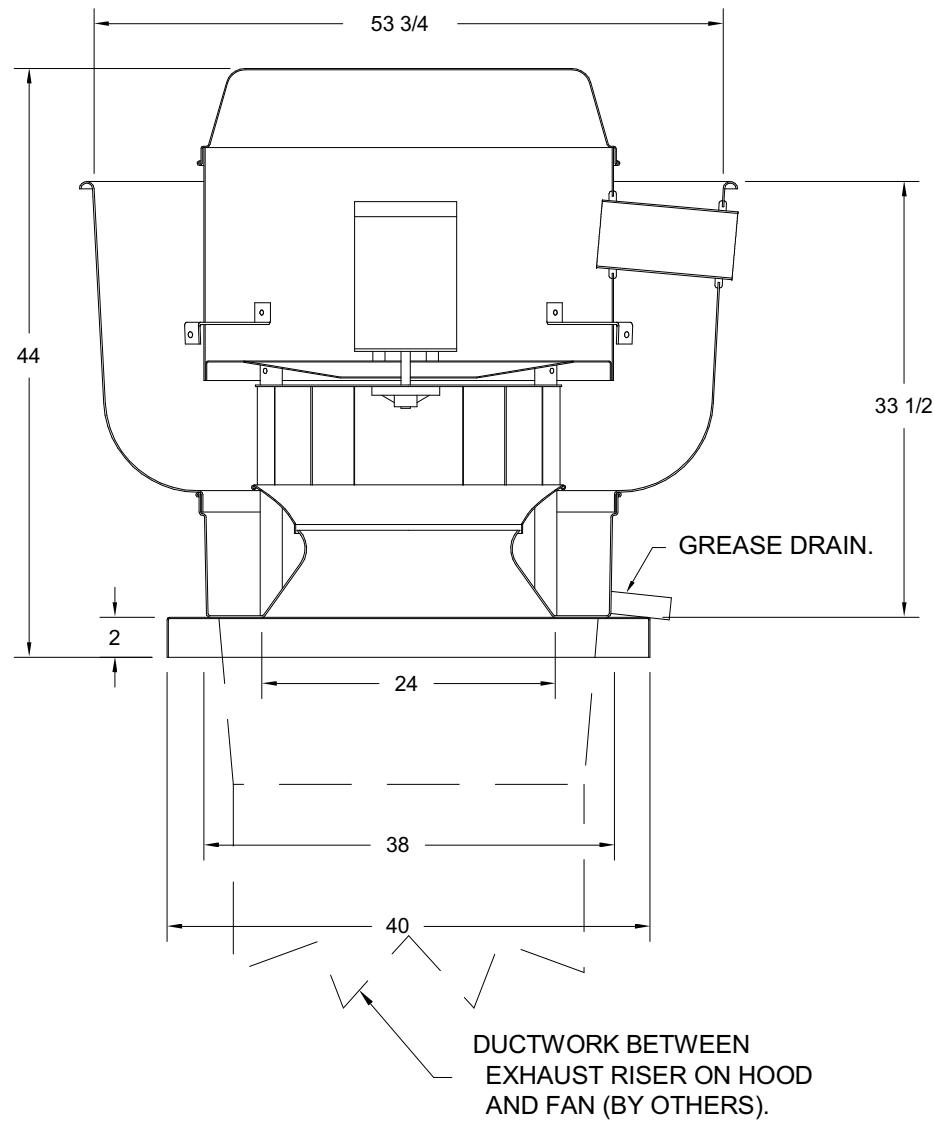
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FAN #1 DU300HFA - EXHAUST FAN (EX 38.35.33.32)



TOP VIEW

FEATURES:

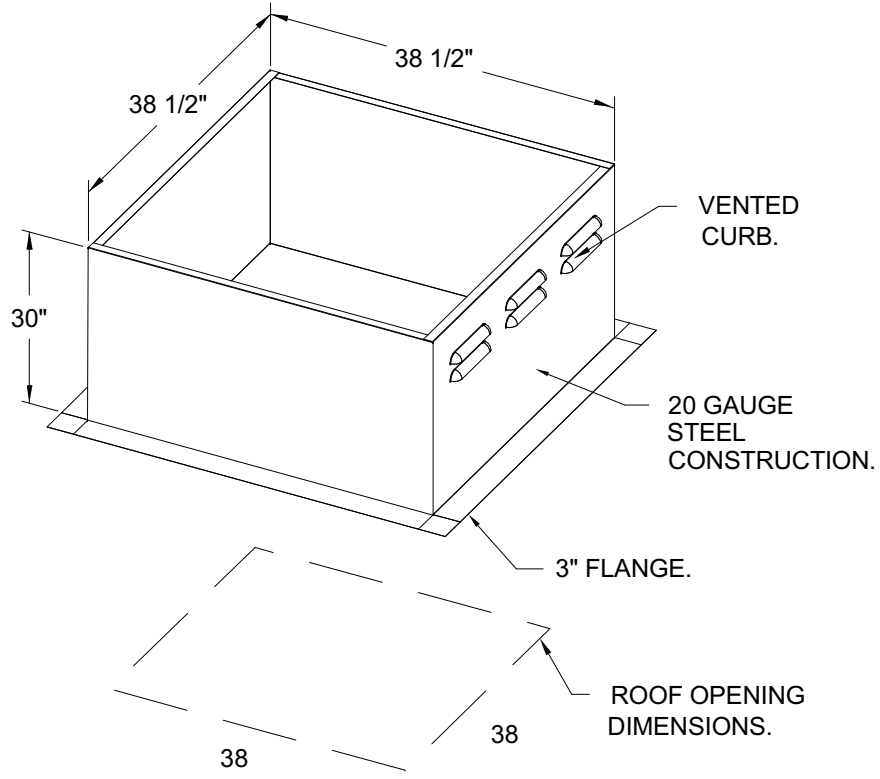
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL705 AND UL762 AND ULC-S645
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- HIGH HEAT OPERATION 300°F (149°C).
- GREASE CLASSIFICATION TESTING.
- NEMA 3R SAFETY DISCONNECT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

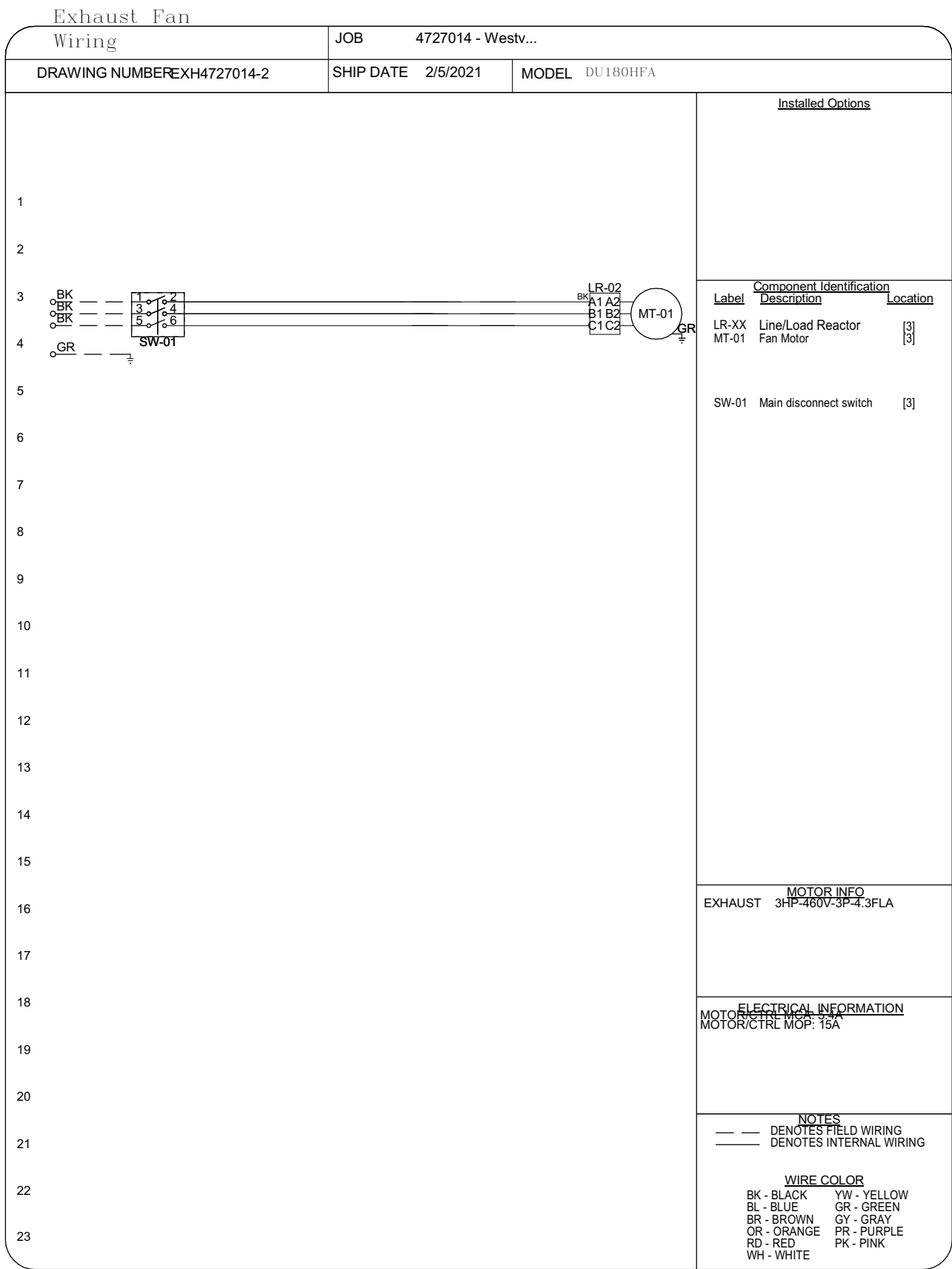
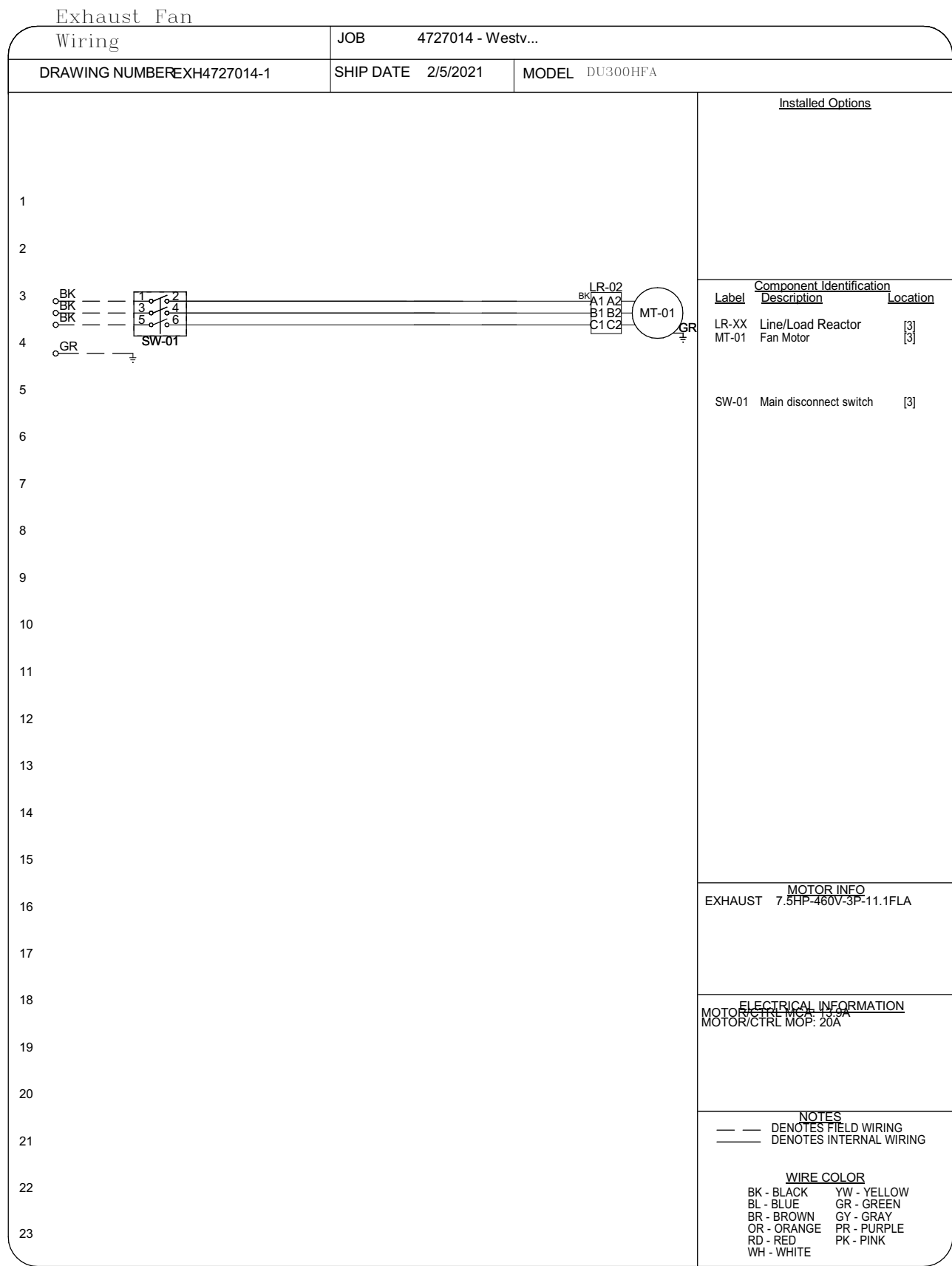
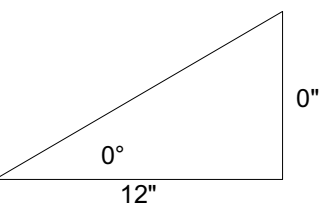
OPTIONS

- GREASE BOX.
- LOAD REACTOR MOUNTED IN FAN.



PITCHED CURBS ARE AVAILABLE FOR PITCHED ROOFS.

SPECIFY PITCH:
EXAMPLE: 7/12 PITCH = 30° SLOPE.



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2/5/2021

4727014

JDC-85

3/4" =
1'-0"

MASTER DRAWING

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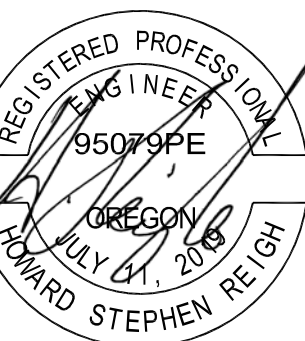
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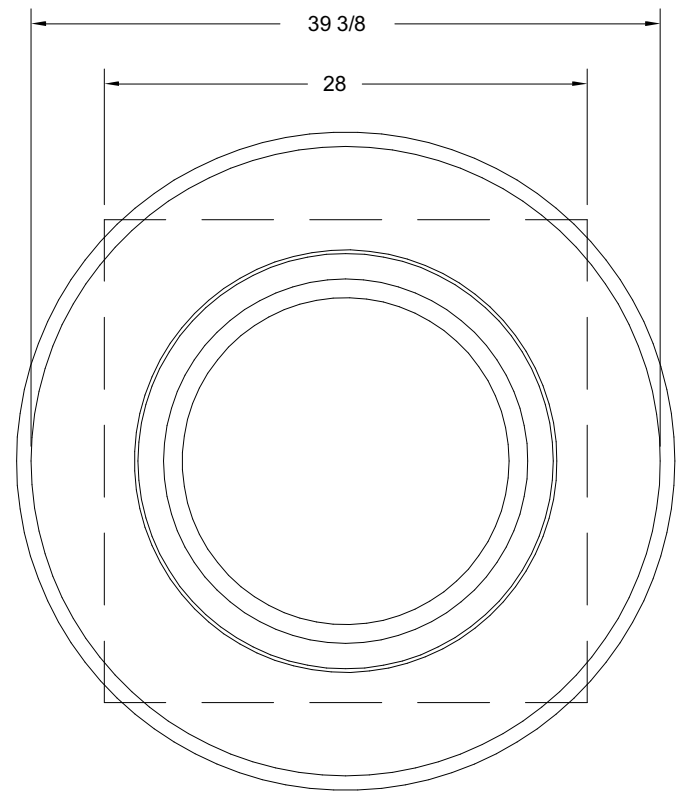
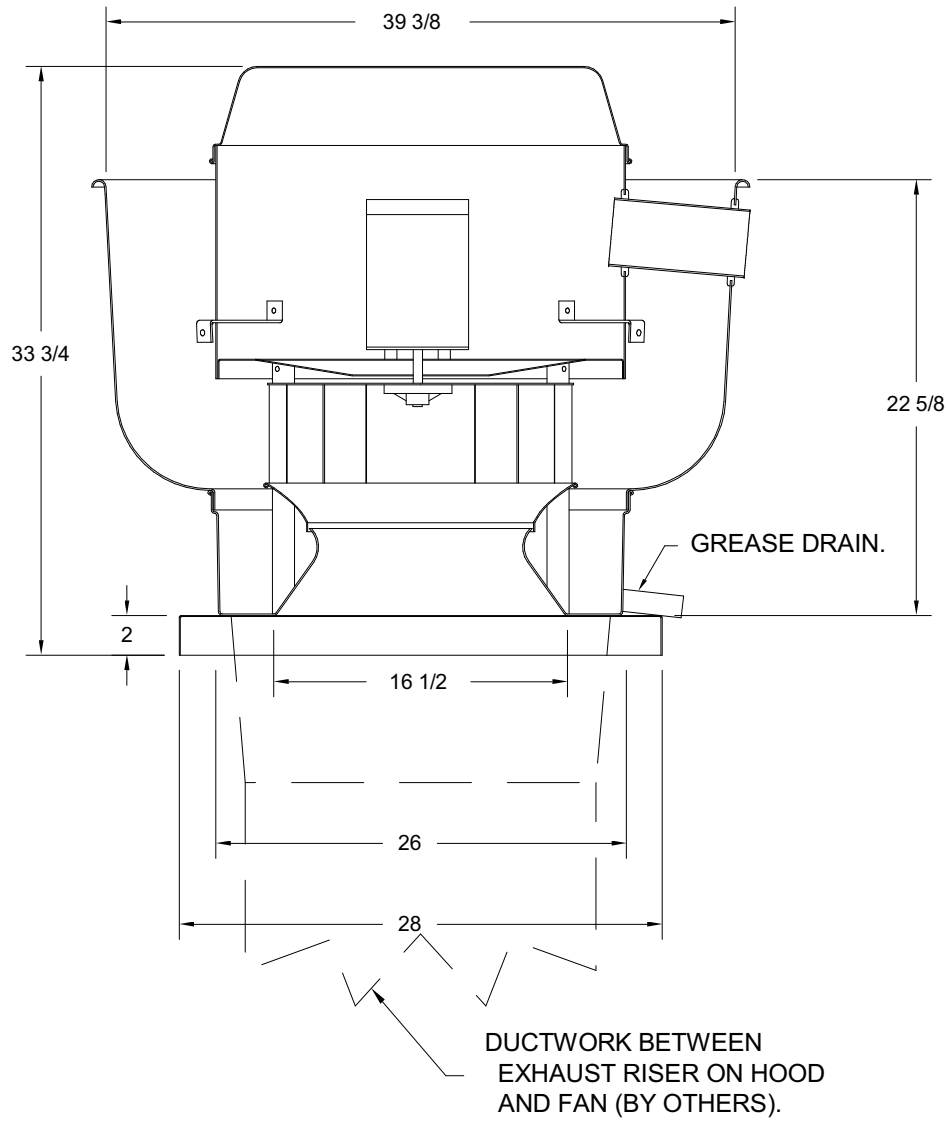
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FAN #2 DU180HFA - EXHAUST FAN (ITEM 15 21 EX)



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

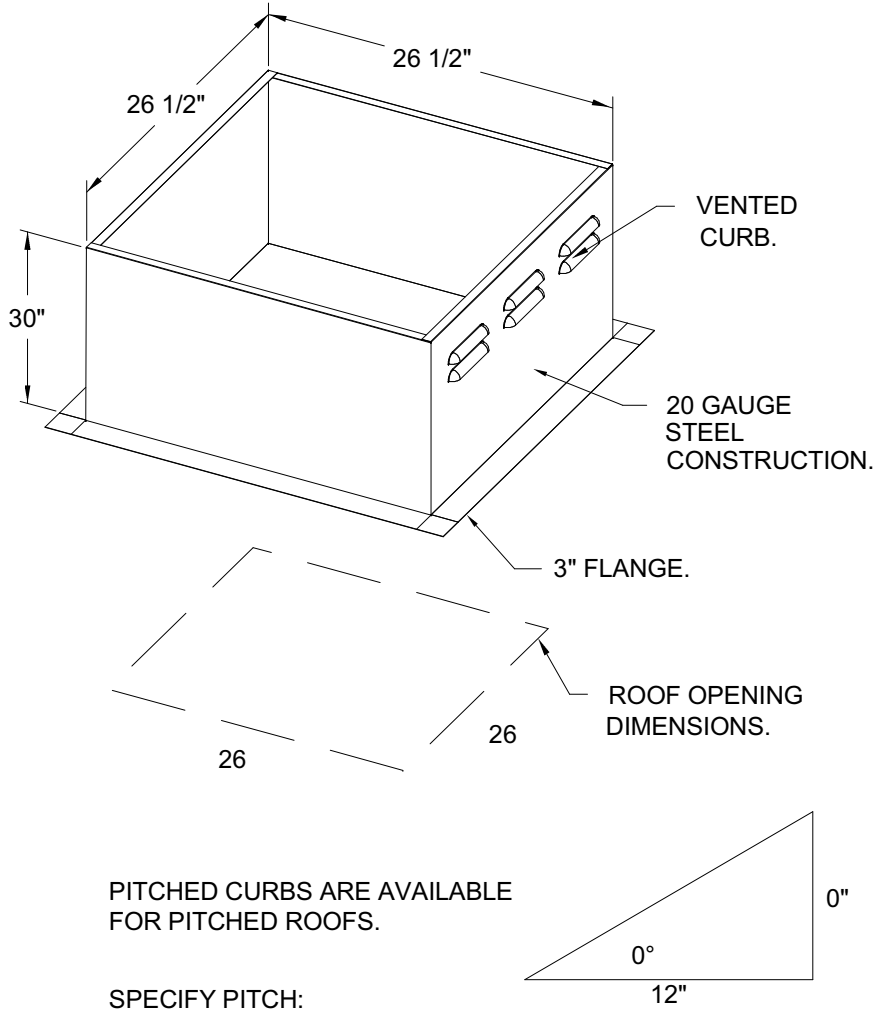
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

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.
- FAN BASE CERAMIC SEAL - INSTALLED AT PLANT - FOR GREASE DUCTS.
- LOAD REACTOR MOUNTED IN FAN.



PITCHED CURBS ARE AVAILABLE FOR PITCHED ROOFS.

SPECIFY PITCH:
EXAMPLE: 7/12 PITCH = 30° SLOPE.

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3/4" =
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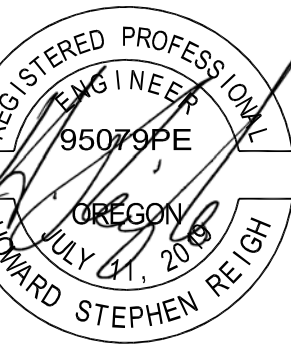
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- FAN R5 A3 D 500-252-MPU - HEATER (MAU 36 35 33 32)
1. DIRECT GAS FIRED HEATED MAKE UP AIR UNIT WITH 20" DIRECT DRIVE FAN AND 12" BURNER
 2. INTAKE HOOD WITH EZ FILTERS
 3. DOWN EXHAUST - AIR FLOW RIGHT - LEFT
 4. COOLING INTERLOCK RELAY, 24VAC COIL, 120V CONTACTS, LOCKS OUT BURNER CIRCUIT WHEN AC IS ENERGIZED
 5. MOTORIZED BACK DRAFT DAMPER 30" x 30" FOR SIZE 3 STANDARD & MODULAR HEATER UNITS W/EXTENDED SHUNT, STANDARD GALVANIZED CONSTRUCTION, 3/4" REAR FLANGE, LOW LEAKAGE, INBURS ACTUATOR INCLUDED
 6. LOW FIRE STUNT, ALLOWS THE BURNER CIRCUIT TO ENERGIZE WHEN THE INSULATION CONTROL IS IN A LOW FIRE POSITION
 7. GAS PRESSURE GAUGE, 0-30" 2.5" DIAMETER, 1/4" THREAD SIZE
 8. GAS PRESSURE GAUGE, 0-15 INCHES W.C., 2.5" DIAMETER, 1/4" THREAD SIZE
 9. DOUBLE WALL STEEL LINER FOR DIRECT DRIVE, INCLUDES ROOF, FLOOR AND DOOR LINERS
 10. PRESSURE SWITCH WITH 10" SENSOR, FACTORY SET AT 3.0 PSI AND 10 MINUTES
 11. 15 TON 3 CIRCUIT 3000 MODULAR PACKAGED COOLING OPTION FOR SIZE 3 OTHER MODULAR PACKAGED UNIT INCLUDES CONDENSER, DX COIL, FETTER/DRYER KIT, HARD START KIT, THERMAL EXPANSION VALVE, R410A REFRIGERANT, AND REFRIGERANT PIPING, LEAD TO 7/8" DR. CRAN WHEN CHARGED WITH OPPOSITE AIRFLOW CONDENSER ACCESS AND COIL PIPING WILL REMAIN IN STANDARD POSITION, DRAIN AND BLEEDS WILL MOVE TO THE OPPOSITE SIDE. ANY OTHER CHANGE WILL REQUIRE C.U. CONDENSERS REQUIRE SEPARATE ADV. 3 PHASE POWER SUPPLY UNLESS ORDERED WITH SINGLE POINT CONNECTION, COIL + 350T0028
 12. DOWNTURN PLENUM FOR SIZE 3 COOLING COIL MODULE, REQUIRED FOR DOWN DISCHARGE COOLING COIL APPLICATIONS
 13. SUPPORT SHELL FOR SIZE 3 MODULAR PACKAGE UNIT FOR THIRD CONDENSER, INCLUDES COIL CONTROL, VESTIBULE, INCLUDES CONDENSER SUPPORTS, DOES NOT INCLUDE RETURN AIR OR INLET AIR DAMPER
 14. MERV 13 FILTER OPTION FOR SIZE 3 MAKING BOX OR CONDENSER SUPPORT, MAKING BOX OR CONDENSER SUPPORT MUST BE SELECTED FOR THIS OPTION, USES 15 X 20 X 2 INCH FILTERS AND 15 X 15 X 2 INCH FILTERS
 15. DX COOLING INTAKE AIR THERMOSTAT AND RELAYS MOUNTED IN UNIT, SET POINT FOR THERMOSTAT SHOULD BE 55°F
 16. HINGED DOUBLE WALL INSULATED DOOR ASSEMBLY (BURNER/BLOWER/MPU SECTION)

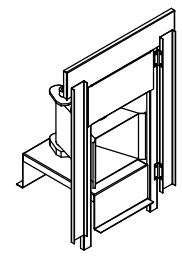
NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SHOWN STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS OUTLINED IN AMCA PUBLICATION 201. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE INSULATED THREAT AGAINST BACK WINDS. FLARE DUCTWORK AND SQUARE THROUGH AIR BACK ELBOWS SHOULD NOT BE USED. ANY TRANSITION AND/OR TURNS IN THE DUCTWORK WILL CAUSE SYSTEM EFFECT, SYSTEM EFFECT WILL DRAMATICALLY 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 36" x 36"

SUPPLY SIDE HEATER INFORMATION:

WINTER TEMPERATURE = 27°F
TEMP. RISE = 40°F
BTU/H CALCULATED OFF ACTUAL AIR DISCHARGE

OUTPUT BTU/H AT ALTITUDE OF 0.0 FT = 30800
INPUT BTU/H AT ALTITUDE OF 0.0 FT = 33480
OUTPUT BTU/H AT ALTITUDE OF 277 FT = 33021
INPUT BTU/H AT ALTITUDE OF 277 FT = 33154



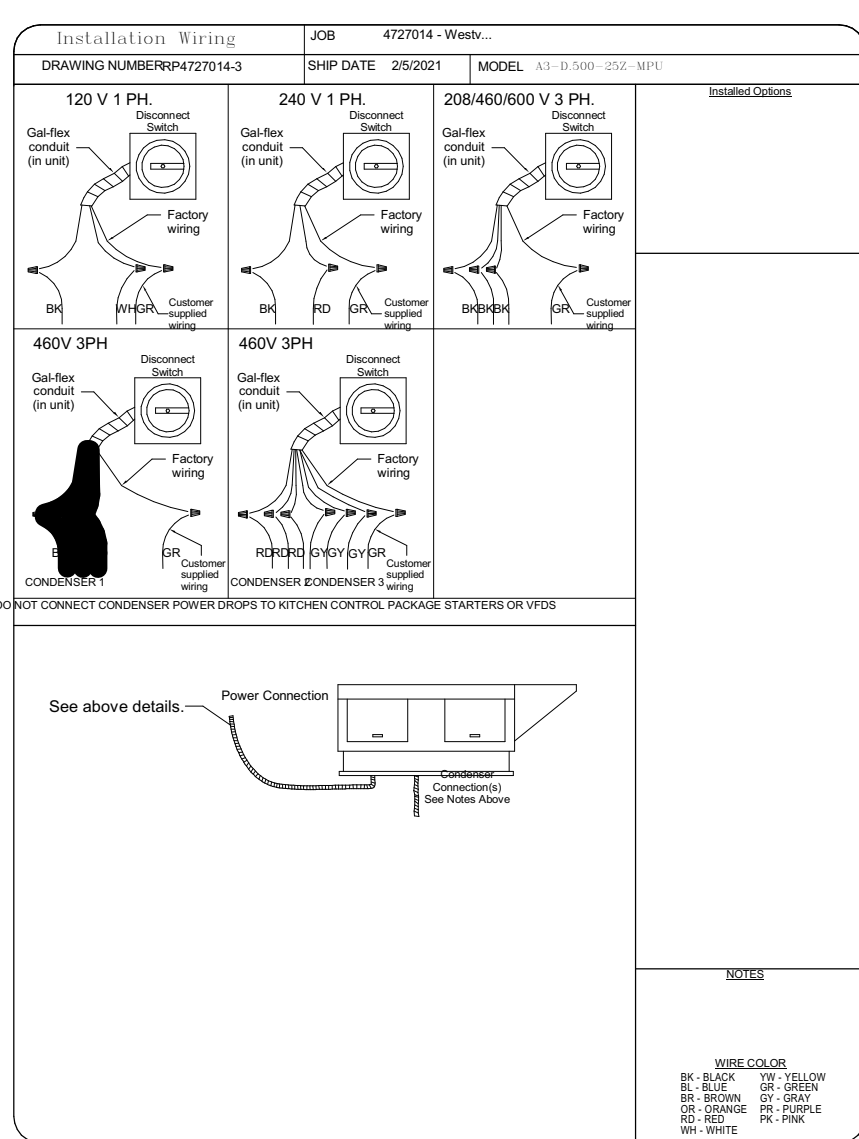
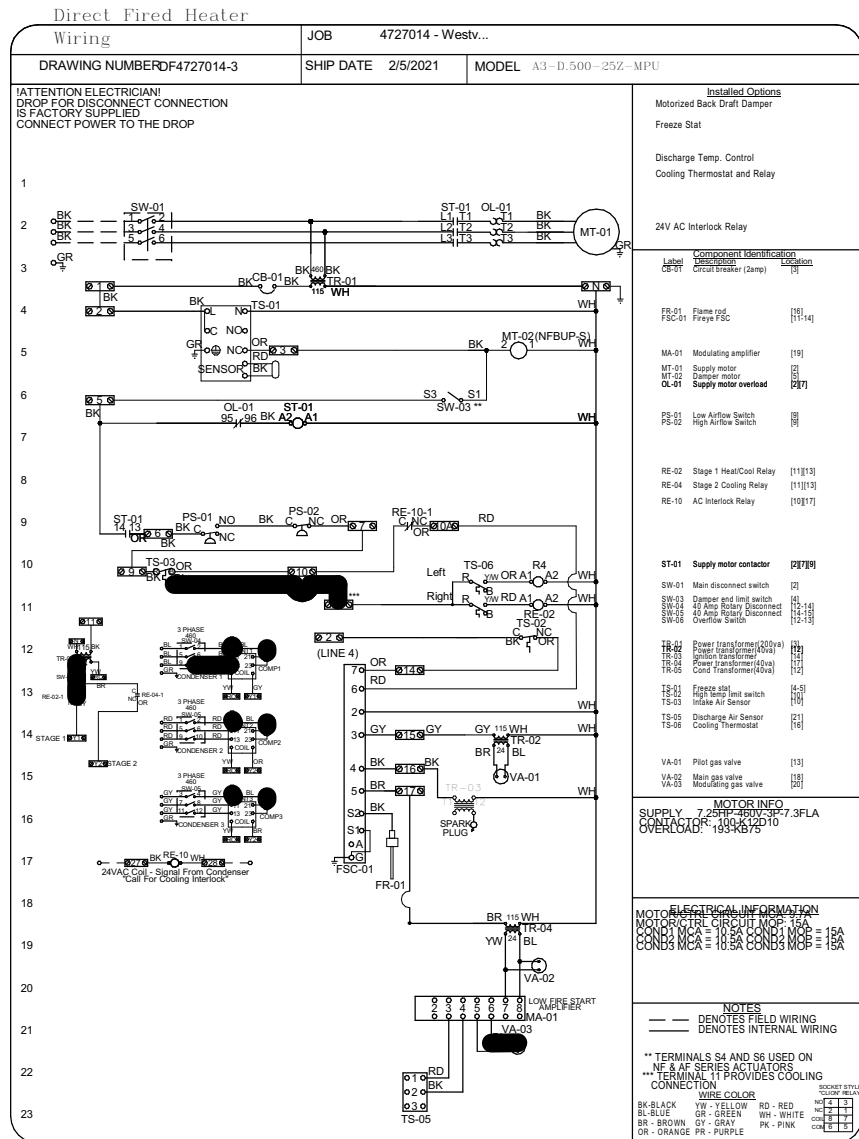
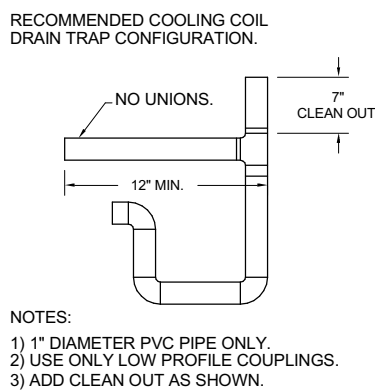
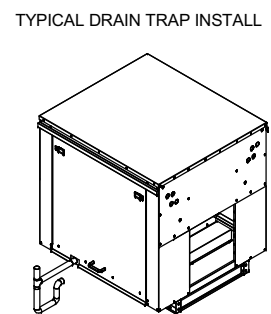
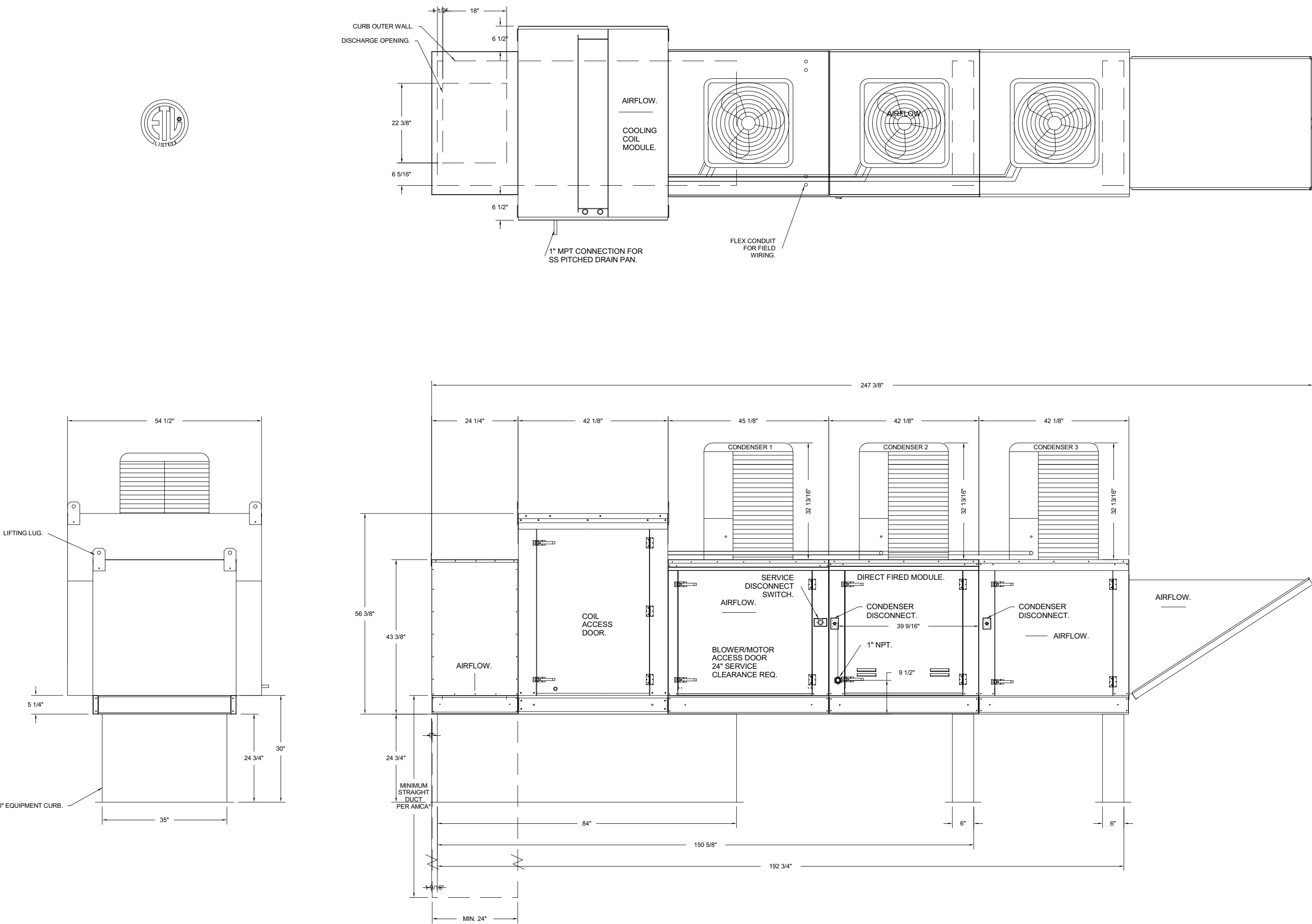
DIRECT FIRED PROFILE PLATE SPECIFICATIONS:

DESCRIPTION:
DIRECT FIRED BURNERS SHALL HAVE PATENTED GAS PATENT NO. 5,080,882, SELF-ADJUSTING PROFILE PLATE DESIGN TO BURNER PROPERLY AND SAFELY AND PREVENT SPARK KICKING THE BURNER. PROFILE PLATE SHALL ALLOW BURNER TO ACHIEVE CLEAN COMBUSTION BY LIFTING BY PRODUCT LEVELS TO UNIFORM UNDERGAS FLOW. GASES ENTERING COIL WILL BE HEATED TO APPROXIMATELY 100°F. THE UNIFORMITY WILL ENSURE A CONSISTENT AIRFLOW, REGARDLESS OF INLET AIR TEMPERATURE.

APPLICATION:
BURNER COILS BURNER PROFILE PLATES ARE ENGINEERED TO AUTOMATICALLY ADJUST TO THE MOMENTUM OF AIRFLOW AS IT CHANGES WITHOUT THE NEED FOR ANY ADJUSTMENT OR REWORKING TO ADJUST THEM.

GENERAL INFORMATION:
ALL PROFILE PLATE ASSEMBLIES SHALL BE INCLUDED IN THE COIL UNITS LISTING AND COMPLY WITH COMBUSTION SAFETY STANDARDS AND GAS AND GAS 1.1 (NOM) REGULATING OF HEATING AND GAS 1.1 (NOM) (REGULATING OF HEATING).

GENERAL INFORMATION:
PROFILE PLATES SHALL BE FORMED FROM 0.06 GALVANIZED STEEL.
PROFILE PLATES SHALL HAVE REINFORCED PLATE.
PROFILE PLATES SHALL BE SEVERED ALONG THE SAME PLANE AS THE DISCHARGE OF THE BURNER.
GAS VALVE SHALL INCORPORATE PROPERLY TIGHTENED, PERMANENTLY ADJUSTED SPRING HINGES.
SPRING HINGES SHALL BE MADE FROM PLATED STEEL.



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1/2" = 1'-0"
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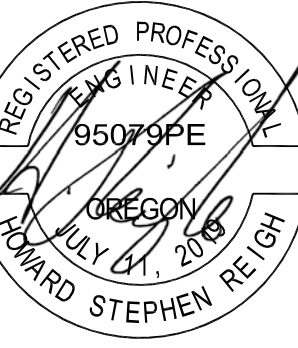
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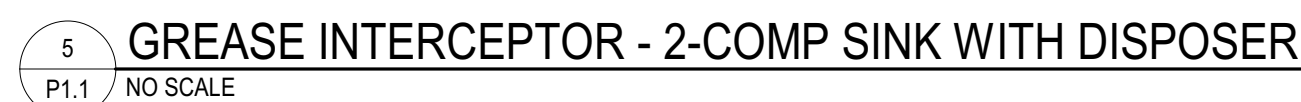
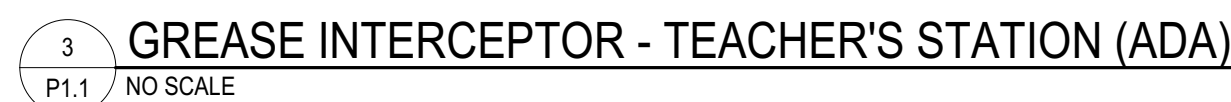
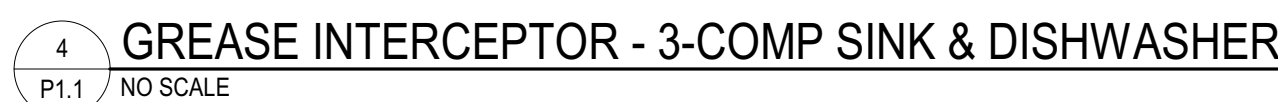
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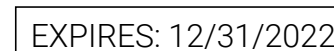


NOTES:

1. PROVIDE A MINIMUM OF 5-1/2" ABOVE TOP OF INTERCEPTOR FOR MAINTENANCE ACCESS.
2. PROVIDE WITH FIELD CUT RISER.
3. LOCATE COVER AND INTERCEPTOR TO ALLOW FOR FULL ACCESS TO TANK FOR PROPER MAINTENANCE



- 1 SAW CUT (E)FOR FOR INSTALLATION OF NEW WASTE PIPES. SEE ARCH DRAWINGS. COORDINATE ON SITE, AND FIELD VERIFY ACTUAL CONDITION.
- 2 EXISTING 2-1/2"VTR TO REMAIN.
- 3 ROUTE NEW GAS PIPING UNDER COUNTER TO NEW RINK AND CONNECT TO EXISTING GAS PIPING IN WALL.
- 4 PROVIDE A MINIMUM OF 5-1/2" CLEARANCE ABOVE GREASE INTERCEPTOR FOR ROUTINE MAINTENANCE.
- 5 RECONNECT EXISTING PLUMBING (CW, HW, V) TO NEW SINK BRANCH 1/2"CW TO SERVE NEW ICE MACHINE ON THE OTHER SIDE OF THE WALL.
- 6 2"V DOWN TO VIEW DOWNSTREAM OF COLD WATER INTERCEPTOR.
- 7 TEE 1/2"CW BRANCH OFF FROM SINK COLD WATER DROP TO DISPOSER.
- 8 DROP 2"CW & 1-1/2"HW IN WALL, DOWN UNDERGROUND, AND UP HALF HEIGHT WALL BEHIND 3-COMP SINK AND WAREWASH BRANCH (21/2"CW AND (21/2"HW TO 1/2" PIRE RISE FAULT) AND SINK SUCT BRANCH 1/2"CW TO SERVE DISHWASHER DRAIN WATER TEMPERING. BRANCH 3/4"HW TO SERVE DISHWASHER SINK FOOD SERVICE DRAINING (FS1.2) FOR EXACT LOCATION.
- 9 ROUTE 1/2"CW, 1/2"HW, 1-1/2"V, 2"V TO HAND SINK.
- 10 USE FOOD SERVICE DRAWING FOR NEW SINKS. RECONNECT EXISTING PLUMBING (CW, HW, HWC, V) TO NEW SINKS. (TYP-7)
- 11 SAW CUT (E)FOR FOR INSTALLATION OF NEW 2"W, 2"CW & 2"HW PIPES UNDERGROUND. SEE ARCH DRAWINGS. COORDINATE ON SITE, AND FIELD VERIFY ACTUAL CONDITION.
- 12 ROUTE 3/4"CD FROM EXISTING ICE MACHINE'S CONDENSATE PUMP TO EXISTING SINK TAILPIECE PER DETAIL 4P1.1. PROVIDE LITTLE GIANT ACS2-IN-PAN CONDENSATE OVERFLOW LOW-DEFLECTION SWITCH AND WIRE TO AN ALARM.
- 13 REMOVE EXISTING 2"W MAIN AND REPLACE WITH NEW 3"W AT SAME LOCATION.
- 14 COORDINATE GREASE INTERCEPTOR AND NEW WASTE PIPING WITH EXISTING FOUNDATION.
- 15 DROP 3/4"CW FROM NEW 3"W MAIN OVERHEAD TO 1/2"V (E) COMBI-OFF 1" DRAINER BRANCH ANOTHER 3/4"CW TO SERVE WASH FILTRATION SYSTEM.



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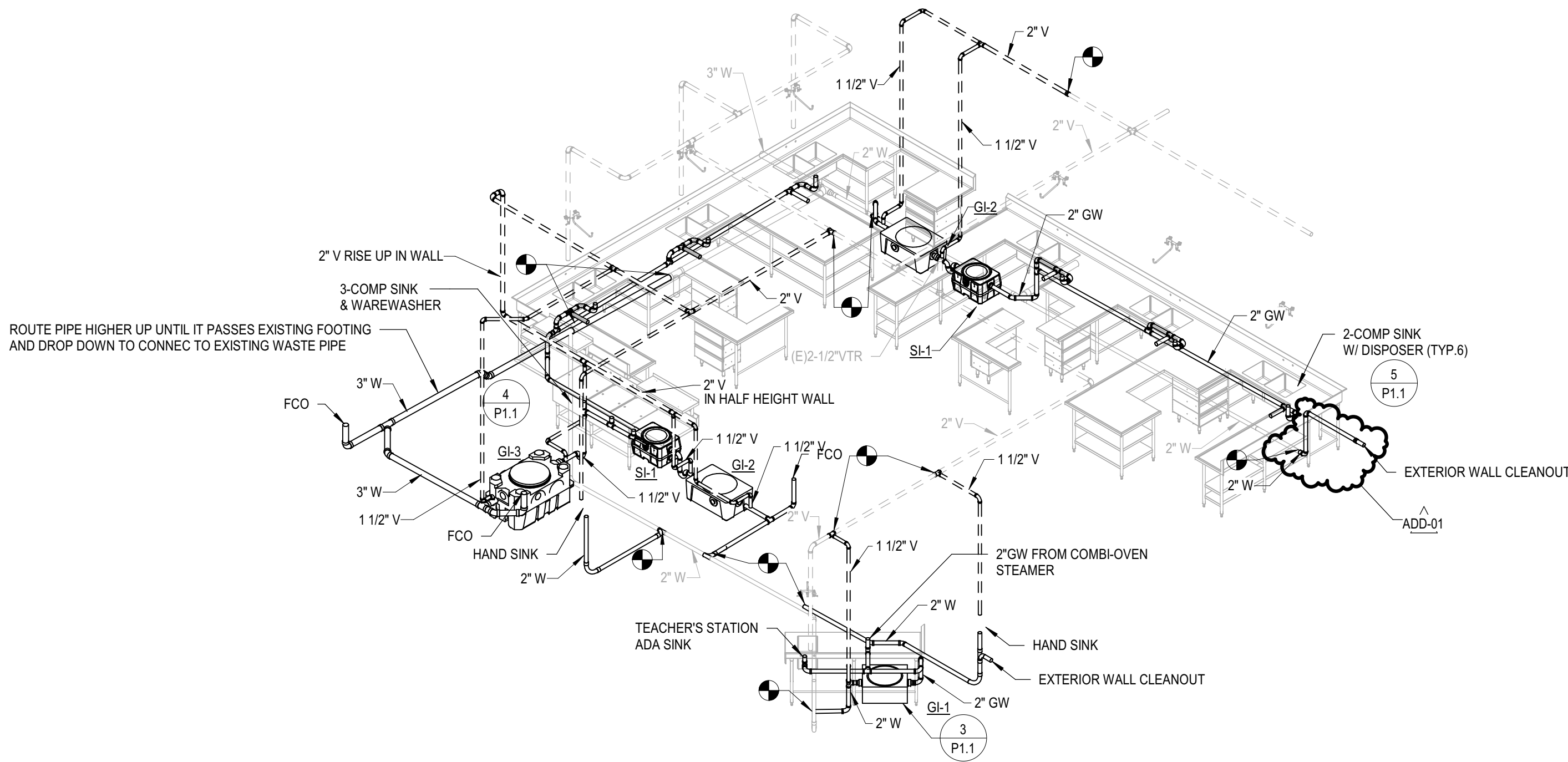
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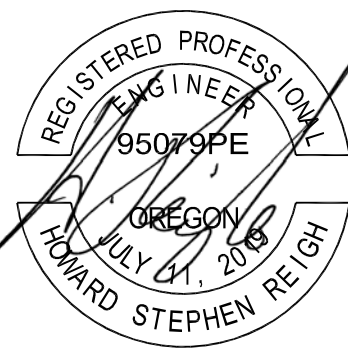
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P4.1

WASTE & VENT RISER DIAGRAM
NO SCALE



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**WASTE & VENT
RISER DIAGRAMS**

P4.1

ABBREVIATIONS

(D)	DEMOLISHED
(E)	EXISTING
(R)	RELOCATED
Ø	PHASE
A AMP	AMPERE
AC	ABOVE COUNTER
AF	AMP FRAME (CIRCUIT BREAKER)
AIC	AMPERE INTERRUPTING CAPACITY
AL	ALUMINUM
AP	WIRELESS ACCESS POINT
AT	AMP TRIP (CIRCUIT BREAKER OR FUSE)
ATS	AUTOMATIC TRANSFER SWITCH
AV	AUDIO-VIDEO, AUDIO-VISUAL
AWG	AMERICAN WIRE GAUGE
BAS	BUILDING AUTOMATION SYSTEM
BJ	BONDING JUMPER
BKR	BREAKER
BMS	BUILDING MANAGEMENT SYSTEM
C	CONDUIT
CATV	CABLE TELEVISION
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CKT	CIRCUIT
CU	COPPER
DB	DECIBEL
DC	DIRECT CURRENT
DISC	DISCONNECT
DP	DISTRIBUTION PANELBOARD
DW	DISHWASHER
ECS	EMERGENCY COMMUNICATION SYSTEM
EGB	ELECTRICAL GROUNDING BUSBAR
EMD	ESTIMATED MAXIMUM DEMAND
EMGB	ELECTRICAL MAIN GROUNDING BUSBAR
EP	EXPLOSION PROOF
ER	EXISTING TO BE RELOCATED
ERMS	ENERGY REDUCTION MAINTENANCE SWITCH
EW	ELECTRIC WATER COOLER
FA	FIRE ALARM
FAA	FIRE ALARM ANNUNCIATOR
FACP	FIRE ALARM CONTROL PANEL
FC	FOOT CANDLE
FLA	FULL LOAD AMPS
FSD	FIRE SMOKE DAMPER
G	EQUIPMENT GROUNDING CONDUCTOR
GEN	GENERATOR
GFI, GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFPE	GROUND FAULT PROTECTION OF EQUIPMENT
GND	EQUIPMENT GROUNDING CONDUCTOR
HOA	HAND-OFF-AUTOMATIC
HP	HORSE POWER
IC	INTERCOM
JB	JUNCTION BOX
KAIC	THOUSAND AMPERE INTERRUPTING CIRCUIT
KV	KILOVOLT
KVA	KILOVOLT AMPERES
KW	KILOWATT
LT	LIGHT
LTG	LIGHTING
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MLO	MAIN LUGS ONLY
MOC	MAXIMUM OVERCURRENT PROTECTION
MRTS	MOTOR RATED TOGGLE SWITCH
MSB	MAIN SWITCHBOARD
MTD	MOUNTED
MTG	MOUNTING
MTS	MAIN TRANSFER SWITCH
N	NEUTRAL
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
NF	NON-FUSED
NL	NIGHT LIGHT
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
P	POLE(S)
PB	PULL BOX
PH	PHASE
PWR	POWER
RCP	REFLECTED CEILING PLAN
RECPT	RECEPTACLE
REF	REFERENCE
SCCR	SHORT CIRCUIT CURRENT RATING
SEC	SECONDARY
SWBD	SWITCHBOARD
TBB	TELECOMMUNICATIONS BONDING BACKBONE
TC	TIME CLOCK
TGB	TELECOMMUNICATIONS GRONDING BUSBAR
TMGB	TELECOMMUNICATIONS MAIN GRONDING BUSBAR
TO	TELECOMMUNICATIONS OUTLET
TS	TAMPER SWITCH
TV	TELEVISION
UG	UNDERGROUND
V	VOLT
VA	VOLT-AMPERE
VFD	VARIABLE FREQUENCY DRIVE
W	WIRE
WG	WIRE GUARD
WP	WEATHER-PROOF (NEMA 3R)
XFMR	TRANSFORMER

GENERAL NOTES

- 1 PENETRATIONS IN WALLS REQUIRING PROTECTED OPENINGS MUST BE FIRESTOPPED WITH AN APPROVED MATERIAL.

GENERAL DEMOLITION NOTES

- 1 SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PHASES OF DEMOLITION AND CONSTRUCTION. COORDINATE WITH GENERAL CONSTRUCTION.
- 2 DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES AND LIGHTING FIXTURES IN DEMOLITION AREAS UNLESS NOTED OTHERWISE.
- 3 DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES IN WALLS TO BE DEMOLISHED. WALLS TO BE DEMOLISHED ARE SHOWN DASHED. DISCONNECT AND REMOVE ASSOCIATED CONDUIT AND WIRE BACK TO LAST REMAINING DEVICE. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY FOR CONTINUITY OF CIRCUIT(S) TO ANY EXISTING DEVICES TO REMAIN. COORDINATE AND VERIFY REQUIREMENTS WITH NEW WORK IN AREA.
- 4 FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY FOR CONTINUITY OF ANY FEEDERS OR BRANCH CIRCUITS ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY ELECTRICAL EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.
- 5 FURNISH AND INSTALL CONDUIT AND/OR COMMUNICATIONS/DATA WIRING AS NECESSARY FOR CONTINUITY OF ANY WIRING ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY COMMUNICATIONS/DATA EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.
- 6 DISCONNECT AND REMOVE LIGHT SWITCHES IN DEMOLITION AREAS AS NECESSARY TO ACCOMMODATE NEW DOOR CONFIGURATIONS.
- 7 DISCONNECT AND REMOVE ANY EXISTING ELECTRICAL DEVICES AND BACK BOXES AS NECESSARY WHERE NEW WALL CONSTRUCTION WILL INTERSECT AN EXISTING WALL. FURNISH AND INSTALL CONDUIT AND WIRE AS REQUIRED FOR CONTINUITY OF CIRCUIT(S).
- 8 FURNISH AND INSTALL BLANK COVER PLATES OVER ALL EXISTING UNUSED OPENINGS.

GENERAL SITE PLAN NOTES

- 1 ALL LIGHTING AND POWER CONDUCTORS SHALL BE INSTALLED BETWEEN 24" (MINIMUM) AND 36" (MAXIMUM) BELOW FINISHED GRADE.
- 2 ALL COMMUNICATIONS CONDUIT AND CABLES SHALL BE INSTALLED 36" (MINIMUM) BELOW FINISHED GRADE.
- 3 ALL CONDUCTORS FOR EXTERIOR LIGHTING AND POWER CIRCUITS SHALL BE #10 AWG MINIMUM.
- 4 PROVIDE TRANSFORMER BASE AT ALL POLE MOUNTED FIXTURES. TAP 2 LEGS OF THREE PHASE FEEDER (CIRCUITS DENOTED), PROVIDE BALLAST FUSES AT TAP, AND PROVIDE BRANCH CIRCUITS TO FIXTURES.

GENERAL SITE DEMOLITION NOTES

- 1 SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PHASES OF DEMOLITION AND CONSTRUCTION. COORDINATE WITH GENERAL CONSTRUCTION.
- 2 DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES AND LIGHTING FIXTURES IN DEMOLITION AREAS UNLESS NOTED OTHERWISE.
- 3 COORDINATE AND VERIFY REQUIREMENTS WITH NEW WORK IN AREA.

LIGHTING

	LIGHTING FIXTURE, SEE FIXTURE SCHEDULE		SWITCHES: MOUNT 42" AFF UNO
	LIGHTING FIXTURE ON EMERGENCY SYSTEM		SUPPERSCRIPT, SWITCH SHALL CONTROL FIXTURE DENOTED WITH SAME LOWER CASE LETTER
	TRACK LIGHTING FIXTURE, SIZE PER FIXTURE SCHEDULE		SWITCH SYMBOL
	FLUORESCENT STRIP LIGHTING FIXTURE, SIZE PER FIXTURE SCHEDULE		SUBSCRIPT, SWITCH TYPE - SEE BELOW
	WALL MOUNTED FLUORESCENT STRIP LIGHTING FIXTURE		LINE THRU SWITCH INDICATES A KEY OPERATED SWITCH
	CEILING FIXTURE, SURFACE, RECESSED OR PENDANT, SEE FIXTURE SCHEDULE		SWITCH, SINGLE POLE
	LIGHTING FIXTURE ON EMERGENCY SYSTEM		SWITCH, DOUBLE POLE
	HIGH BAY LIGHTING FIXTURE		SWITCH, THREE WAY
	WALL FIXTURE, BRACKET MOUNTED, SEE FIXTURE SCHEDULE		SWITCH, FOUR WAY
	SELF CONTAINED EMERGENCY LIGHTING FIXTURE		SWITCH, DIMMER
	EXIT SIGN, CEILING MOUNTED, DIRECTIONAL ARROW AS INDICATED		SWITCH, EMERGENCY
	EXIT SIGN, WALL MOUNTED, DIRECTIONAL ARROW AS INDICATED		SWITCH, LOW VOLTAGE
	SITE LIGHTING - POLE		SWITCH, MASTER
	POLE MOUNTED YOKE		SWITCH, WALL-BOX OCCUPANCY SENSOR
	POLE MOUNTED AREA LIGHT		SWITCH, WALL-BOX OCCUPANCY SENSOR, 2-POLE
	WALL MOUNTED AREA LIGHT		SWITCH, WITH PILOT LIGHT
	IN GRADE LIGHT FIXTURE, SEE FIXTURE SCHEDULE		SWITCH, LOW VOLTAGE, ASSOCIATED WITH RELAY PANEL
	BOLLARD LIGHT FIXTURE		SWITCH, TIMER
			SWITCH, WALL-BOX VACANCY SENSOR
			SWITCH, EXPLOSION-PROOF

COMMUNICATIONS

	TELEPHONE OUTLET, WALL		CLOCK
	TELEPHONE OUTLET FOR WALL-MOUNTED PHONE		CLOCK - MASTER
	PAY TELEPHONE OUTLET		CLOCK - DOUBLE FACE
	TELEPHONE CABINET (PBX)		CLOCK - OUTLET
	TELEPHONE BACKBOARD, SIZE AS SHOWN		TIME CLOCK
	TECHNOLOGY OUTLET, WALL (VOICE, DATA, VIDEO)		TELEVISION OUTLET, WALL
	MULTI-MEDIA TECHNOLOGY OUTLET, WALL		TELEVISION OUTLET, CEILING
	SMART-BOARD TECHNOLOGY OUTLET, WALL		TELEVISION TERMINAL CABINET
	TECHNOLOGY OUTLET, CEILING (MULTI-MEDIA)		BUZZER
	FLUSH FLOOR BOX WITH TECHNOLOGY OUTLET		CHIME
	FLUSH FLOOR BOX WITH TWO (2) TECHNOLOGY OUTLETS (MULTI-MEDIA)		SPEAKER, WALL
			SPEAKER, CEILING
			SPEAKER/HORN, WALL
			INTERCOM CALLBACK STATION, WALL
			VOLUME CONTROL, WALL
			MICROPHONE CONTROL, WALL
			MONITOR SPEAKER RECEPTACLE, WALL
			FLUSH FLOOR BOX WITH MICROPHONE OUTLET
			DIRECTOR'S HEADSET, WALL

GENERAL LIGHTING NOTES

- 1 ALL RECESSED LIGHTING FIXTURES IN LAY-IN CEILINGS SHALL BE INSTALLED WITH 6" LONG FLEXIBLE METAL CONDUIT.
- 2 ALL MOUNTING HEIGHTS FOR LIGHTING FIXTURES ARE TO THE BOTTOM OF THE FIXTURES UNLESS INDICATED OTHERWISE.
- 3 SEE ARCHITECTURAL EXTERIOR ELEVATIONS FOR MOUNTING HEIGHTS OF EXTERIOR LIGHTING FIXTURES.
- 4 REFER TO SECTION 26 0519 FOR MINIMUM CONDUCTOR SIZE ADJUSTMENTS FOR VOLTAGE DROP.
- 5 **FOR TYPICAL PROJECTS WHERE WIRING IS SHOWN (EDIT AS NEEDED):
- 6 WIRE COUNTS FOR CIRCUIT CONDUCTORS ARE NOT SHOWN. PROVIDE PROPER NUMBER OF CONDUCTORS TO ACHIEVE CIRCUIT AND SWITCHING CONNECTIONS SHOWN.
- 7 MODIFICATIONS TO NUMBER OF CONDUCTORS IN HOME RUNS IN ADDITION TO CIRCUITS INDICATED ON THIS DRAWING ARE PROHIBITED.
- 8 **FOR TYPICAL PROJECTS WHERE WIRING IS NOT SHOWN (EDIT AS NEEDED):
- 9 CIRCUIT WIRING IS NOT SHOWN EXCEPT FOR SWITCHING INTENT OF FIXTURES AND CONTROL OF DEVICES.
- 10 PROVIDE PROPER NUMBER OF CONDUCTORS TO ACHIEVE CIRCUITING AND SWITCHING SHOWN.
- 11 CIRCUIT NUMBERS AT DEVICES CORRESPOND TO PANELBOARD BREAKERS (SEE PANELBOARD SCHEDULE). BRANCH CIRCUITS SHALL BE SIZED ACCORDING TO THE CIRCUIT BREAKER RATING, UNLESS INDICATED OTHERWISE ON THE ELECTRICAL EQUIPMENT SCHEDULE.

POWER

	CIRCUIT HOME RUN		RECEPTACLES
	CONDUIT TURNING UP		DIAGONAL LINE THROUGH SYMBOL OR DENOTED 'AC' INDICATES MOUNT DEVICE ABOUT COUNTER, WHERE INDICATED AS 'MOUNT ABOVE COUNTER' MOUNT BOTTOM OF BOX 2" ABOVE TOP OF BACKSPLASH OR 6" ABOVE COUNTERTOP IF NO BACKSPLASH EXISTS.
	CONDUIT TURNING DOWN		SIMPLEX RECEPTACLE
	CONDUIT STUB-UP		DUPLEX RECEPTACLE
	CONDUIT SLEEVE		DUPLEX RECEPTACLE, GFI TYPE
	CONDUIT SEAL		DUPLEX RECEPTACLE, MOUNT ABOVE COUNTER
	CONDUIT CONCEALED IN CEILING OR WALLS, POWER		DUPLEX RECEPTACLE, GFI TYPE, MOUNT ABOVE COUNTER
	CONDUIT CONCEALED IN CEILING OR WALLS, OTHER (* = SEE ABBREVIATIONS)		FOURPLEX RECEPTACLE
	CONDUIT CONCEALED IN FLOOR OR UNDERGROUND, POWER		FOURPLEX RECEPTACLE, GFI TYPE
	CONDUIT CONCEALED IN FLOOR OR UNDERGROUND, OTHER (* = SEE ABBREVIATIONS)		FOURPLEX RECEPTACLE, MOUNT ABOVE COUNTER
	EXPOSED CONDUIT, POWER		FOURPLEX RECEPTACLE, GFI TYPE, MOUNT ABOVE COUNTER
	EXPOSED CONDUIT, OTHER (* = SEE ABBREVIATIONS)		FOURPLEX RECEPTACLE, GFI TYPE, MOUNT ABOVE COUNTER
	TRANSFORMER		FOURPLEX RECEPTACLE, GFI TYPE, MOUNT ABOVE COUNTER
	BRANCH CIRCUIT PANEL BOARD		FOURPLEX RECEPTACLE, GFI TYPE, MOUNT ABOVE COUNTER
	DISTRIBUTION PANEL BOARD		FOURPLEX RECEPTACLE, GFI TYPE, MOUNT ABOVE COUNTER
	EQUIPMENT CABINET, AS NOTED		FOURPLEX RECEPTACLE, GFI TYPE, MOUNT ABOVE COUNTER
	SWITCHBOARD		DUPLEX RECEPTACLE, FLUSH IN CEILING
	CURRENT TRANSFORMER ENCLOSURE		WEATHER RESISTANT GFI DUPLEX RECEPTACLE, MOUNT 18" AFF WITH A WEATHERPROOF, IN-USE COVER
	METER		SPECIAL RECEPTACLE (MARK INDICATES OUTLET IN SCHEDULE)
	GENERATOR		FLUSH FLOOR OUTLET BOX
	AUTOMATIC TRANSFER SWITCH		FLUSH FLOOR BOX WITH DUPLEX RECEPTACLE
	SYSTEM GROUND ELECTRODE		FLUSH FLOOR BOX WITH FOURPLEX RECEPTACLE
	THERMOSTAT		MULTIDEVICE FLOOR BOX WITH DUPLEX AND DATA OUTLETS, DIVIDED 2 GANG BOX WITH SINGLE GANG PLASTER RING
	MUSHROOM		MULTI-RECEPTACLE STRIP, SPACING AS INDICATED
	MOTOR CONNECTION, HORSEPOWER AS INDICATED		DIVIDED RACEWAY
	DISCONNECT SWITCH, WITH FUSE		
	DISCONNECT SWITCH, WITHOUT FUSE		
	RELAY		
	PHOTOELECTRIC CELL		
	SWITCH, PUSH BUTTON, SINGLE		
	SWITCH, PUSH BUTTON, DOUBLE		
	SWITCH, PUSH BUTTON, TRIPLE		
	JUNCTION BOX, CEILING		
	FLUSH JUNCTION BOX, WALL MOUNTED		
	SURFACE JUNCTION BOX, CEILING MOUNTED		
	SURFACE JUNCTION BOX, WALL MOUNTED		
	PULL BOX		
	EQUIPMENT CONNECTION		
	EQUIPMENT CONNECTION		

SAFETY

	FIRE ALARM CONTROL PANEL		FIRE ALARM SPEAKER, FLUSH IN CEILING
	FIRE ALARM ANNUNCIATOR PANEL		FIRE ALARM SPEAKER, WITH VISUAL WARNING SIGNAL, CEILING
	N.A.C. EXTENDER PANEL		FIRE ALARM VISUAL WARNING SIGNAL, CEILING
	MANUAL FIRE ALARM PULL STATION		ECS SPEAKER, FLUSH IN CEILING
	FIRE ALARM BELL		ECS SPEAKER, WITH VISUAL WARNING SIGNAL, CEILING
	FIRE ALARM HORN		ECS VISUAL WARNING SIGNAL, CEILING
	FIRE ALARM VISUAL WARNING SIGNAL		
	FIRE ALARM BELL, WITH VISUAL WARNING SIGNAL		
	FIRE ALARM HORN, WITH VISUAL WARNING SIGNAL		
	MINI FIRE ALARM HORN, WITH VISUAL WARNING SIGNAL		
	FIRE ALARM SPEAKER, WITH VISUAL WARNING SIGNAL		

GENERAL SYSTEMS NOTES

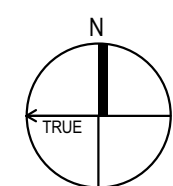
- 1 ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR WIRING ALL ELECTRICAL ITEMS SHOWN ON THE DRAWINGS, EXCEPT ITEMS LISTED ON SHEET E01 GENERAL ELECTRICAL NOTES.
- 2 SEE FIRE ALARM ZONE SCHEDULE FOR INITIATING ZONES AND SIGNAL CIRCUITS.
- 3 MAXIMUM NUMBER OF 4 INFORMATION OUTLET LOCATIONS PER CONDUIT HOME RUN TO MDF OR IDF IS PERMITTED. CONDUIT SHALL BE SIZED AS FOLLOWS
- 1 INFORMATION OUTLET LOCATION: 1"
- 2 INFORMATION OUTLET LOCATIONS: 1 1/4"
- 3 INFORMATION OUTLET LOCATIONS: 1 1/2"
- 4 **SELECT NEXT NOTE FOR PROJECT REQUIREMENT**
- 5 ALL COMMUNICATIONS CABLES SHALL BE INSTALLED IN CONDUIT, CABLE TRAY, OR SUPPORTED BY CABLE HOOKS. PROVIDE BUSHINGS AT THE ENDS OF ALL CONDUIT WHERE STUBBED ABOVE ACCESSIBLE CEILINGS OR WHERE DROPPED INTO CABLE TRAY. PROVIDE CABLE HOOKS ABOVE ACCESSIBLE CEILINGS FOR CABLE INSTALLATION WHERE NOT INSTALLED IN CONDUIT OR CABLE TRAY.
- 6 ALL COMMUNICATIONS CABLES SHALL BE INSTALLED IN CONDUIT OR CABLE TRAY.

NOTE

ALL OF NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET.

THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.

- 1 DEMO CONNECTION TO EXISTING RANGE. CIRCUIT TO
- 2 REMAIN FOR FUTURE RANGE RECEPTACLE.
- 3 DEMO CONNECTION TO EXISTING RANGE. DEMO WIRING
- 4 AND CONDUIT BACK TO LAST DEVICE OF REMAIN.
- 5 DEMO CONNECTION TO EXISTING RANGE HOOD. CIRCUIT
- 6 TO REMAIN FOR FUTURE CONNECTION TO NEW HOOD.
- 7 DEMO CONNECTION TO EXISTING RANGE HOOD. DEMO
- 8 WIRING AND CONDUIT BACK TO LAST DEVICE OF REMAIN.
- 9 DEMO CONNECTION TO EXISTING DISPOSER. DEMO
- 10 WIRING AND CONDUIT BACK TO LAST DEVICE OF REMAIN,
- 11 INCLUDING ANY SWITCH THAT MAY BE PRESENT.
- 12 DEMO CONNECTION TO EXISTING DISHWASHER. WIRING
- 13 TO REMAIN FOR CONNECTION TO NEW MICROWAVE.
- 14 CIRCUIT TO REMAIN FOR NEW FRIDGE.
- 15 DEMO POWER AND DATA RECEPTACLE FOR TV.
- 16 REUSE EXISTING CIRCUIT FOR NEW FREEZER
- 17 RECEPTACLE TO BE RELOCATED ABOVE COUNTER
- 18 RELOCATE EXISTING RECEPTACLE SOUTH. SEE NEW
- 19 PLAN FOR FINAL LOCATION.
- 20 EXISTING TO REMAIN, PROTECT DURING CONSTRUCTION.



SCALE: 1/4" = 1'-0"



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ED1.1

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SHEET NOTES

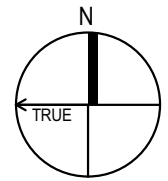
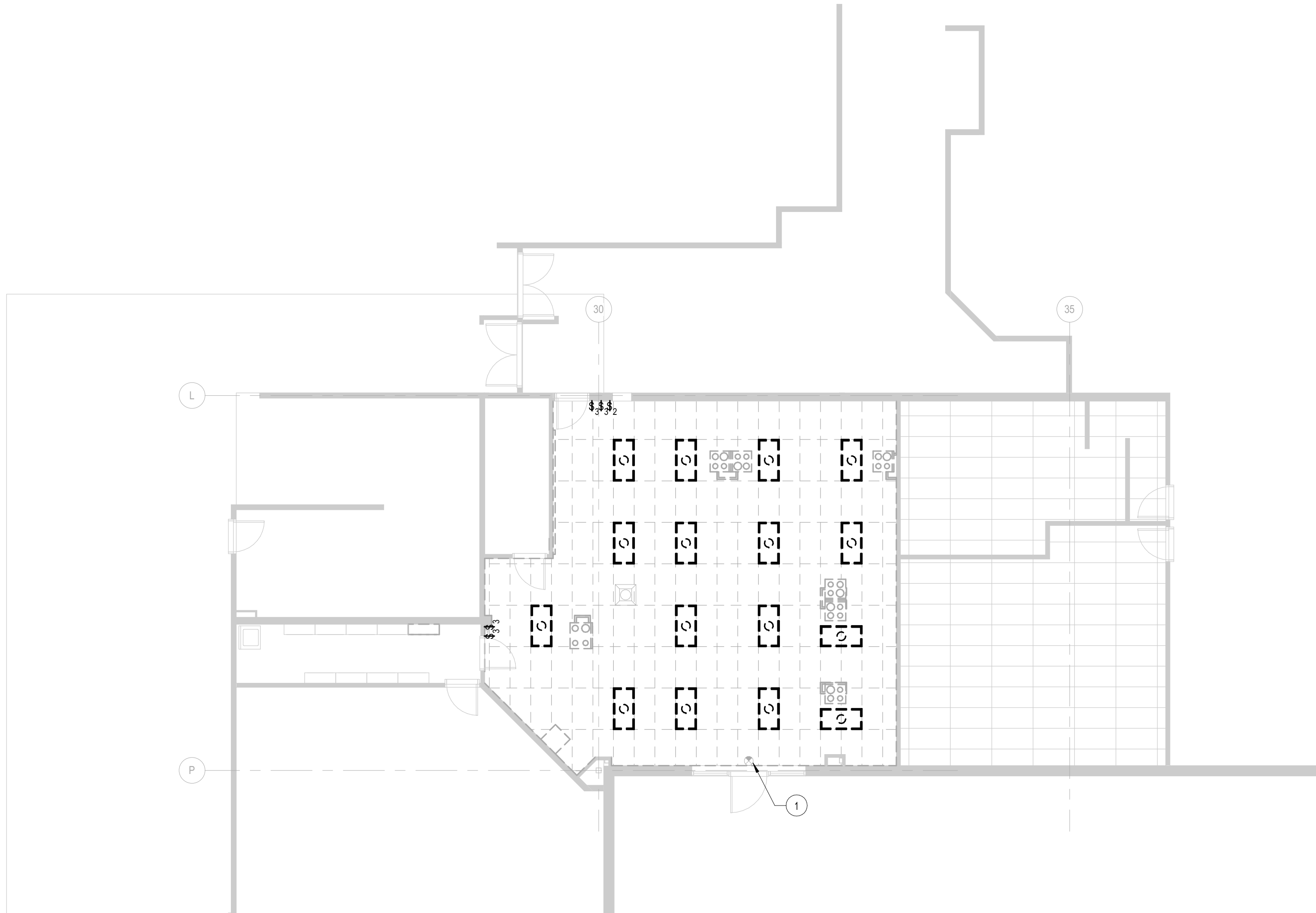
- 1 EXISTING TO REMAIN, PROTECT DURING CONSTRUCTION.

1

2

3

4



FIRST LEVEL LIGHTING DEMOLITION PLAN

SCALE: 1/8" = 1'-0"



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FIRST LEVEL
LIGHTING
DEMOLITION
PLAN

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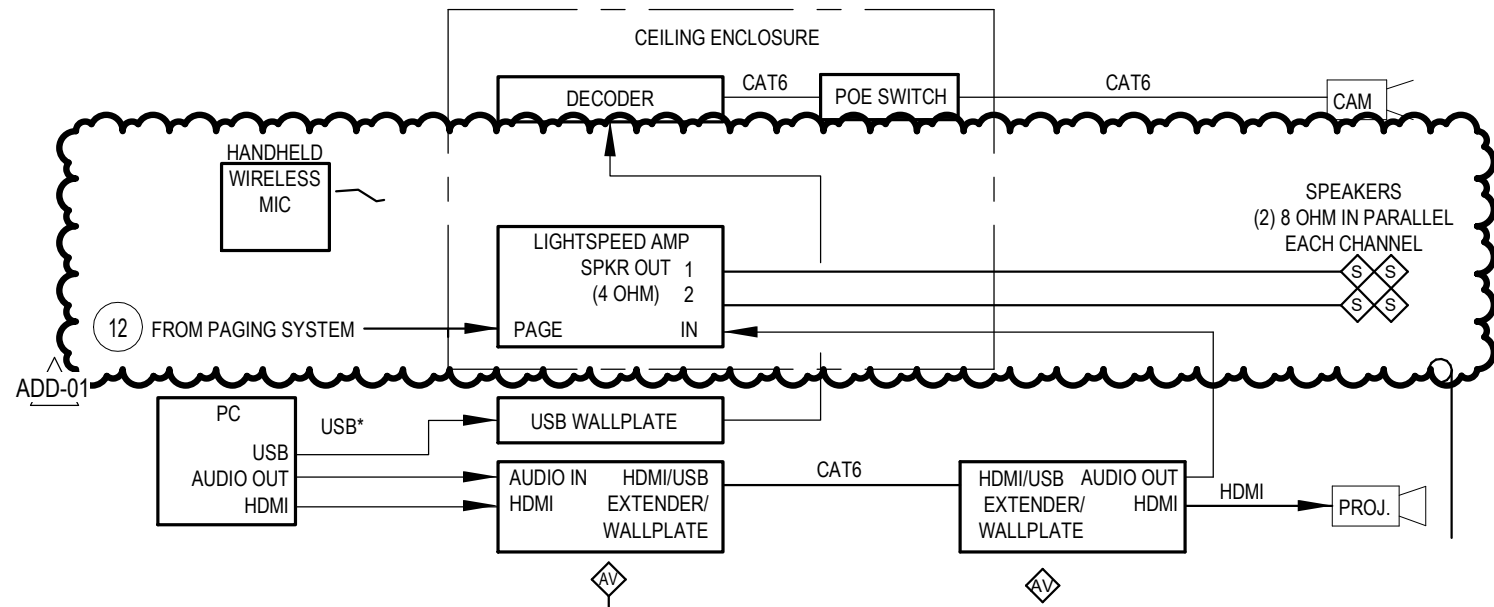
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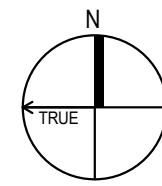
SHEET NOTES

- 1 KENALL SIMPSEAL RECESSED GRID 2X2 LED TROFFER RATED FOR FOOD PREP. SYMMETRIC OPTIC WITH DIFFUSED, IMPACT RESISTANT ACRYLIC LENS. CLEAR POLYCARBONATE 20GA DOOR FRAME AND HOUSING. MODEL NO: CSED022-45LD-35K8-DIM1-DV-5F-2H-SYM-FN
- 2 CEILING MOUNT CAMERA ABOVE DEMO STATION. BASIS OF DESIGN: LEGRAND EASYIP. SEE SPECIFICATIONS FOR MORE INFORMATION.
- 3 EXISTING INTERCOM SPEAKER. DEVICE TO REMAIN ACTIVE. PROTECT DURING DEMOLITION AND REINSTALL.
- 4 EXISTING EXIT SIGN. PROTECT DURING CONSTRUCTION AND REMOVE/REINSTALL IN NEW CEILING.
- 5 EXISTING WAP. REMOVE AND PROTECT DURING CONSTRUCTION AND REINSTALL IN NEW CEILING. IF NEW CABLE TERMINATIONS ARE REQUIRED, RETEST CABLE PER DISTRICT STANDARDS.
- 6 PROVIDE NEW CEILING MOUNTED PROJECTOR INCLUDING CEILING MOUNT. SEE SPECIFICATIONS FOR MORE INFORMATION.
- 7 RELOCATE EXISTING CLOCK ABOVE FIRE ALARM STROBE.
- 8 PROVIDE HDMI EXTENDERS AND USB INPUT/OUTPUT PLATES PER SPEC AND DETAIL 2 THIS SHEET.
- 9 PROVIDE CEILING MOUNTED ENCLOSURE FOR AV COMPONENTS WITH POWER RECEPTACLES. ATLAS CR222-AR OR EQUAL. SEE DETAIL 2 THIS SHEET FOR CONTENTS.
- 10 CIRCUIT FIXTURE TO EXISTING EXIT SIGN CIRCUIT. PROVIDE UL924 BYPASS TO OVERRIDE LIGHTS TO FULL POWER. UL924 BYPASS TO FULL POWER.
- 11 PROVIDE NEW CEILING SPEAKER
- 12 PROVIDE CONNECTION FROM EXISTING PAGING SYSTEM TO PAGING INPUT ON LIGHTSPEED AMPLIFIER. FIELD VERIFY EXISTING CONDITIONS AND EXACT REQUIREMENTS.

ADD-01



2 TEACHING CAMERA ONE-LINE
E1.1 SCALE: 12" = 1'-0"



FIRST LEVEL REFLECTED CEILING PLAN

SCALE: 1/4" = 1'-0"

DLR Group
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FIRST LEVEL
REFLECTED
CEILING PLAN

E1.1

A

B

C

D

E

SHEET NOTES

- 1 UTILIZE EXISTING CIRCUIT FOR RANGE RECEPTACLES
- 2 UTILIZE EXISTING CIRCUIT FOR CONNECTION TO THIS HOOD.
- 3 UTILIZE EXISTING CIRCUIT FOR CONNECTION TO THIS MICROWAVE
- 4 EXTEND EXISTING RECEPTACLE CIRCUIT TO THIS NEW RECEPTACLE.
- 5 REUSE EXISTING CIRCUIT AND CHANGE CIRCUIT AT PANELBOARD. PROVIDE NEW STANDARD RECEPTACLE AND NEW GFI BREAKER IN PANELBOARD FOR CIRCUIT.
- 5 REUSE EXISTING CIRCUIT. PROVIDE NEW STANDARD RECEPTACLE AND NEW GFI BREAKER IN PANELBOARD FOR CIRCUIT.
- 6 RELOCATE EXISTING RECEPTACLE ABOVE COUNTER.
- 7 PROVIDE CEILING RECEPTACLE WITHIN CEILING ENCLOSURE SPECIFIED ON SHEET E1.1
- 8 PROVIDE RECEPTACLE WITH INTEGRAL 5V POWER SUPPLY FOR AV EXTENDERS. PROVIDE 4-SQUARE BACKBOX WITH LOW VOLTAGE DIVIDER TO HOUSE DUPLEX AND AV RECEPTACLE. SEE SPECIFICATIONS FOR MORE INFORMATION.
- 8 PROVIDE RECEPTACLE WITH INTEGRAL 5V POWER SUPPLY FOR AV EXTENDERS. SEE SPECIFICATIONS FOR MORE INFORMATION.
- 9 SAWCUT FLOOR TO PROVIDE TRENCH AND UNDERSLAB CONDUIT TO NEW TEACHING STATION. USE OF EXISTING PATHWAY FOR RANGE CIRCUIT IS ACCEPTABLE IF APPROPRIATE GIVEN STATION RELOCATION.

ELECTRICAL CONNECTION SCHEDULE - KITCHEN

MARK	EQUIPMENT NAME	ELECTRICAL DATA	CONNECTION TYPE	MOUNTING HEIGHT	FEEDER	PANEL	Circuit Number	SCHEDULE NOTES
E1A	CANOPY HOOD DEMAND CONTROL PANEL	120 V/1-200 VA	J-BOX	5' - 0"	2#12, #12G, 3/4"C	2H4	13	SEE NOTE 2
E1B	CANOPY HOOD DEMAND CONTROL PANEL	120 V/1-1200 VA	J-BOX	5' - 0"	2#12, #12G, 3/4"C	2H4	30	SEE NOTE 2
E2A	DISPOSER	208 V/3-1440 VA	J-BOX	1' - 0"	3#12, #12G, 3/4"C	2H5	13.5	SEE NOTE 3
E2B	DISPOSER	208 V/3-1440 VA	J-BOX	1' - 0"	3#12, #12G, 3/4"C	2H5	13.5	SEE NOTE 3
E2C	DISPOSER	208 V/3-1440 VA	J-BOX	1' - 0"	3#12, #12G, 3/4"C	2H5	13.5	SEE NOTE 3
E2D	DISPOSER	208 V/3-1440 VA	J-BOX	1' - 0"	3#12, #12G, 3/4"C	2H5	7.9,11	SEE NOTE 3
E2E	DISPOSER	208 V/3-1440 VA	J-BOX	1' - 0"	3#12, #12G, 3/4"C	2H5	7.9,11	SEE NOTE 3
E2F	DISPOSER	208 V/3-1440 VA	J-BOX	1' - 0"	3#12, #12G, 3/4"C	2H5	7.9,11	SEE NOTE 3
E3	UNDERCOUNTER DISHWASHER	208 V/3-8610 VA	J-BOX	1' - 0"	3#10, #10G, 3/4"C	2H5	13,15,17	
E4	WAREWASHER DETERGENT FEED	120 V/1-1440 VA	NEMA 5-15R	1' - 0"	2#12, #12G, 3/4"C	2H5	12	
E5	REACH-IN REFRIGERATOR	120 V/1-984 VA	NEMA 5-15R	7' - 0"	2#12, #12G, 3/4"C	2H4	3	
E6	CANOPY HOOD ROOM SENSOR CONTROL	120 V/1-0 VA		4' - 0"				WIRE TO HOOD SC CONTROL BOARD W/2-WIRE LOW VOLT. CABLE
E9	CANOPY HOOD ROOM SENSOR CONTROL	120 V/1-200 VA		4' - 0"		2H4	13	WIRE TO HOOD SC CONTROL BOARD W/2-WIRE LOW VOLT. CABLE
E10	CANOPY HOOD LIGHT AND HOOD CONTROLS	120 V/1-200 VA	J-BOX	10' - 0"	2#12, #12G, 3/4"C	2H4	13	
E11	COMBI-OVEN STEAMER	208 V/3-11100 VA	J-BOX	1' - 6"	3#8, #10G, 3/4"C	2H4	7.9,11	SEE NOTE 1
E13	REACH-IN FREEZER	120 V/1-1344 VA	NEMA 5-15R	7' - 0"	2#12, #12G, 3/4"C	2H4	5	DEDICATED CIRCUIT. CEILING DROP CORDS
E14A	CORD DROP OUTLET	120 V/1-180 VA	NEMA 5-15R	12' - 0"	2#12, #12G, 3/4"C	2H5	18	DEDICATED CIRCUIT. CEILING DROP CORDS
E14B	CORD DROP OUTLET	120 V/1-180 VA	NEMA 5-15R	12' - 0"	2#12, #12G, 3/4"C	2H5	18	DEDICATED CIRCUIT. CEILING DROP CORDS
E14C	CORD DROP OUTLET	120 V/1-180 VA	NEMA 5-15R	12' - 0"	2#12, #12G, 3/4"C	2H5	14	DEDICATED CIRCUIT. CEILING DROP CORDS
E14D	CORD DROP OUTLET	120 V/1-180 VA	NEMA 5-15R	12' - 0"	2#12, #12G, 3/4"C	2H5	14	DEDICATED CIRCUIT. CEILING DROP CORDS
E14E	CORD DROP OUTLET	120 V/1-180 VA	NEMA 5-15R	12' - 0"	2#12, #12G, 3/4"C	2H5	16	DEDICATED CIRCUIT. CEILING DROP CORDS
E14F	CORD DROP OUTLET	120 V/1-180 VA	NEMA 5-15R	12' - 0"	2#12, #12G, 3/4"C	2H5	16	DEDICATED CIRCUIT. CEILING DROP CORDS
E17A	4-BURNER OPEN RANGE	120 V/1-480 VA	NEMA 5-15R	1' - 0"	2#12, #12G, 3/4"C	2H3	33	SEE NOTE 1
E17B	4-BURNER OPEN RANGE	120 V/1-480 VA	NEMA 5-15R	1' - 0"	2#12, #12G, 3/4"C	2H4	28	SEE NOTE 1
E17C	4-BURNER OPEN RANGE	120 V/1-480 VA	NEMA 5-15R	1' - 0"	2#12, #12G, 3/4"C	2H4	28	SEE NOTE 1
E18	INDUCTION WOK	208 V/3-1441 VA	NEMA 6-30R	2' - 0"	3#10, #10G, 3/4"C	2H5	19,21,23	DEDICATED CIRCUIT
E19	MOBILE PROOFING CABINET	120 V/1-1920 VA	NEMA 5-20R	2' - 0"	2#12, #12G, 3/4"C			
E20A	MICROWAVE OVEN	120 V/1-1608 VA	NEMA 5-15R	2' - 0"	2#12, #12G, 3/4"C	2H5	2	
E20B	MICROWAVE OVEN	120 V/1-1608 VA	NEMA 5-15R	2' - 0"	2#12, #12G, 3/4"C	2H5	4	
E20C	MICROWAVE OVEN	120 V/1-1608 VA	NEMA 5-15R	2' - 0"	2#12, #12G, 3/4"C	2H5	6	
E20D	MICROWAVE OVEN	120 V/1-1608 VA	NEMA 5-15R	2' - 0"	2#12, #12G, 3/4"C	2H5	8	
E20E	MICROWAVE OVEN	120 V/1-1608 VA	NEMA 5-15R	2' - 0"	2#12, #12G, 3/4"C	2H5	10	
E21	CANOPY HOOD LIGHTS AND HOOD CONTROLS	120 V/1-1800 VA	J-BOX	10' - 0"	2#12, #12G, 3/4"C	2H4	37	SEE NOTE 2
E22A	4-BURNER OPEN RANGE	120 V/1-480 VA	NEMA 5-15R	1' - 0"	2#12, #12G, 3/4"C	2H4	35	SEE NOTE 1
E22B	4-BURNER OPEN RANGE	120 V/1-480 VA	NEMA 5-15R	1' - 0"	2#12, #12G, 3/4"C	2H4	35	SEE NOTE 1
E22C	4-BURNER OPEN RANGE	120 V/1-480 VA	NEMA 5-15R	1' - 0"	2#12, #12G, 3/4"C	2H4	36	SEE NOTE 1
E23	CANOPY HOOD ROOM SENSOR CONTROL	120 V/1-0 VA		4' - 0"				WIRE TO HOOD SC CONTROL BOARD W/2-WIRE LOW VOLT. CABLE
E24	CANOPY HOOD LIGHTS AND HOOD CONTROLS	120 V/1-1800 VA	J-BOX	10' - 0"	2#12, #12G, 3/4"C	2H4	37	SEE NOTE 2
E25	CANOPY HOOD ROOM SENSOR CONTROL	120 V/1-0 VA		4' - 0"				WIRE TO HOOD SC CONTROL BOARD W/2-WIRE LOW VOLT. CABLE
E28	MICROWAVE OVEN	120 V/1-1608 VA	NEMA 5-15R	2' - 0"	2#12, #12G, 3/4"C	2H1	28	
E29	CANOPY HOOD ROOM SENSOR CONTROL	120 V/1-1440 VA		4' - 0"				WIRE TO HOOD SC CONTROL BOARD W/2-WIRE LOW VOLT. CABLE
E30	CANOPY HOOD LIGHTS AND HOOD CONTROLS	120 V/1-1800 VA	J-BOX	10' - 0"	2#12, #12G, 3/4"C	2H4	30	SEE NOTE 2
E31	4-BURNER OPEN RANGE	120 V/1-480 VA	NEMA 5-15R	1' - 0"	2#12, #12G, 3/4"C	2H1	32	SEE NOTE 1
E32	CANOPY HOOD LIGHTS AND HOOD CONTROLS	120 V/1-1800 VA	J-BOX	10' - 0"	2#12, #12G, 3/4"C	2H4	30	SEE NOTE 2
E33	CANOPY HOOD ROOM SENSOR CONTROL	120 V/1-0 VA		4' - 0"		2H4	30	WIRE TO HOOD SC CONTROL BOARD W/2-WIRE LOW VOLT. CABLE

NOTE 1: PROVIDE A SHUNT TRIP BREAKER OR SEPARATE CONTACTOR WIRED TO FIRE SUPPRESSION SYSTEM TO SHUT OFF RANGE VIA THE FIRE HOOD CONTROLLER. SEE HOOD DRAWINGS FOR CONNECTION DETAILS.
NOTE 2: PROVIDE CONNECTION TO FIRE SUPPRESSION PANEL AS REQUIRED. PROVIDE ALL FIELD WIRING REQUIRED FOR COMPLETE INSTALLATION INCLUDING CONTROL WIRING FOR SHUNT TRIP BREAKERS OR CONTACTORS FOR APPLIANCES LOCATED UNDER THE HOOD. PROVIDE A DOUBLE GANG 4-INCH SQUARE J-BOX WITH CONDUIT TO THE FIRE SUPPRESSION SYSTEM PANEL FOR FIRE PULL STATION INSTALLATION. COORDINATE WITH KITCHEN EQUIPMENT SUPPLIER/INSTALLER FOR EXACT REQUIREMENTS.
NOTE 3: PROVIDE CONNECTION TO DISPOSER CONTROL PANEL. SEE FOOD SERVICE DRAWINGS AND MANUFACTURER'S DRAWINGS FOR MORE INFO.



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FIRST LEVEL
POWER PLAN

E2.1

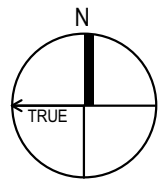
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FIRST LEVEL POWER PLAN

SCALE: 1/4" = 1'-0"

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B

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D

E

SHEET NOTES

- 1
- PROVIDE CONNECTION TO ROOFTOP MECHANICAL VIA HOOD CONTROLLER. SEE HOOD SUBMITTAL FOR EXACT CONNECTION DETAILS.

2

COORDINATE WITH DIV 23 AND HOOD CONTROL MANUFACTURER'S WIRING REQUIREMENTS FOR CONNECTIONS TO MAU.

MECHANICAL AND PLUMBING EQUIPMENT CONNECTION SCHEDULE - ELECTRICAL

Mark	Unit Serves	Unit HP	Unit Disconnect	Electrical Data	Unit FLA	Unit MCA	Unit MOCP	Panel	Circuit Number	Unit Feeder	Notes
EF-1	EXHAUST FAN	7.5	30	480 V/3-9228 VA	11.1 A	13.9 A	15.0 A	4H1	19,21,23	3#12, #12G, 3/4"C	
EF-2	EXHAUST FAN	3	30	480 V/3-3576 VA	4.3 A	5.4 A	15.0 A	4H1	25,27,29	3#12, #12G, 3/4"C	
MAU-1	MAKEUP AIR UNIT	5	30	480 V/3-6069 VA	7.3 A	9.7 A	15.0 A	4H1	13,15,17	3#12, #12G, 3/4"C	



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ROOF POWER PLAN

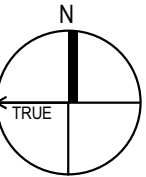
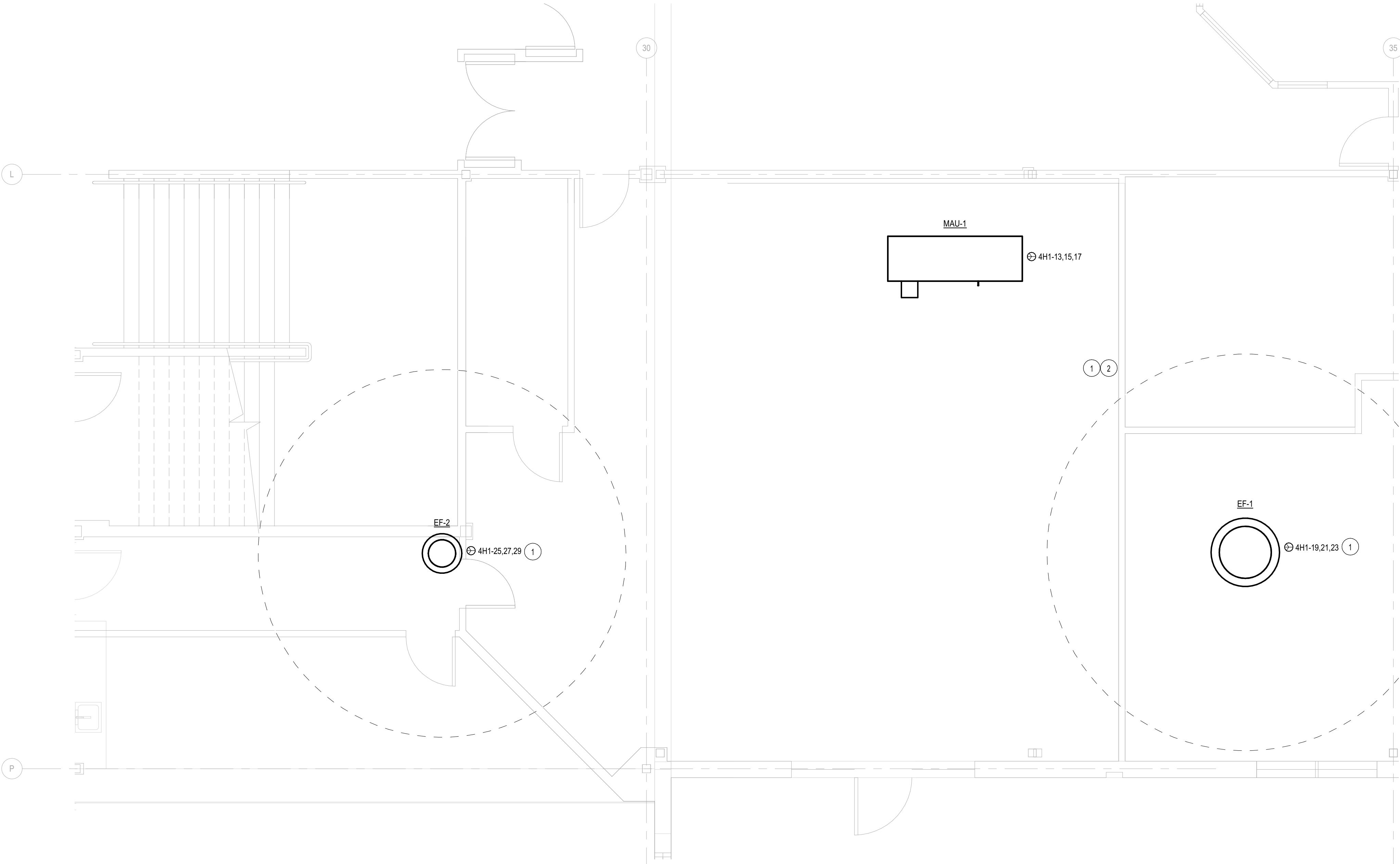
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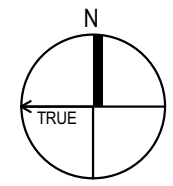
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ROOF POWER PLAN

SCALE: 1/4" = 1'-0"

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ONE-LINE DIAGRAM

SCALE: 1 1/2" = 1'-0"



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ONE-LINE
DIAGRAM

E5.1

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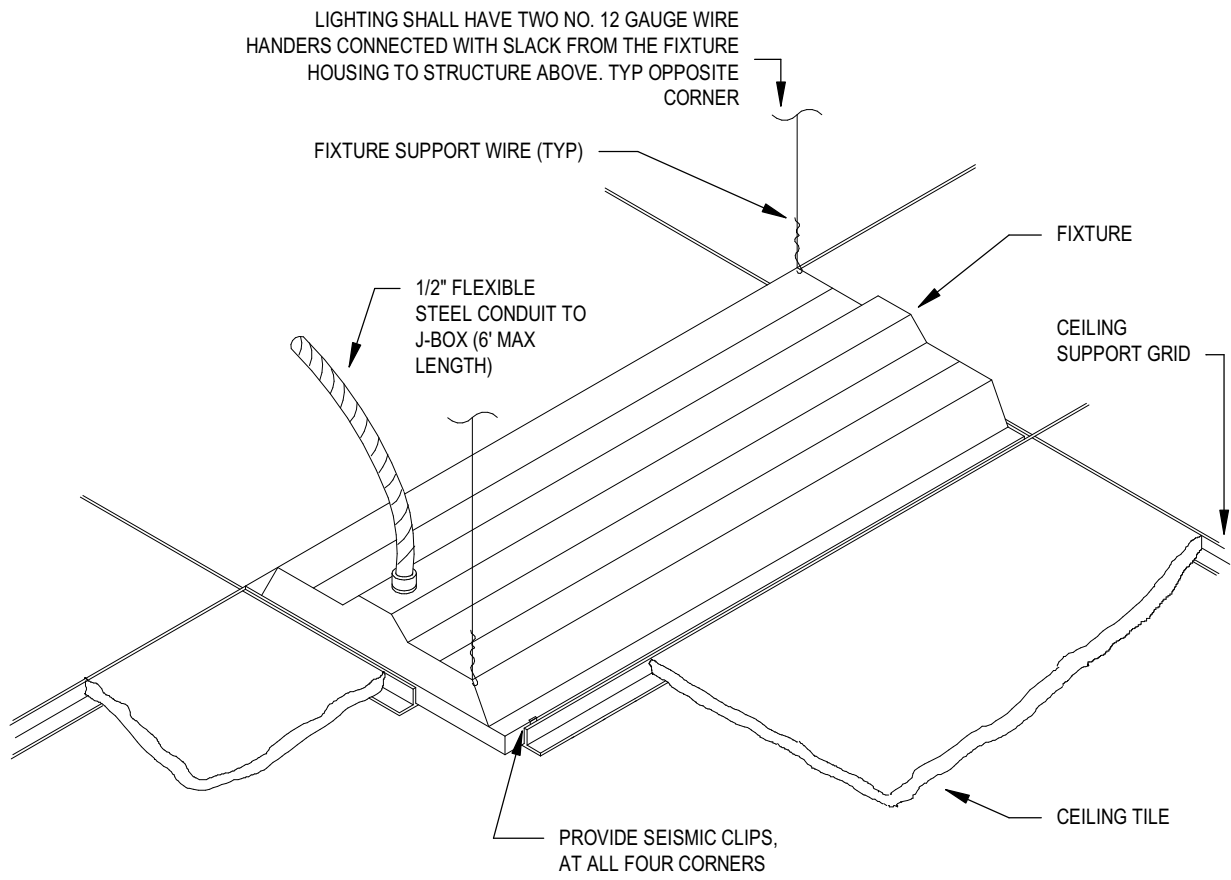
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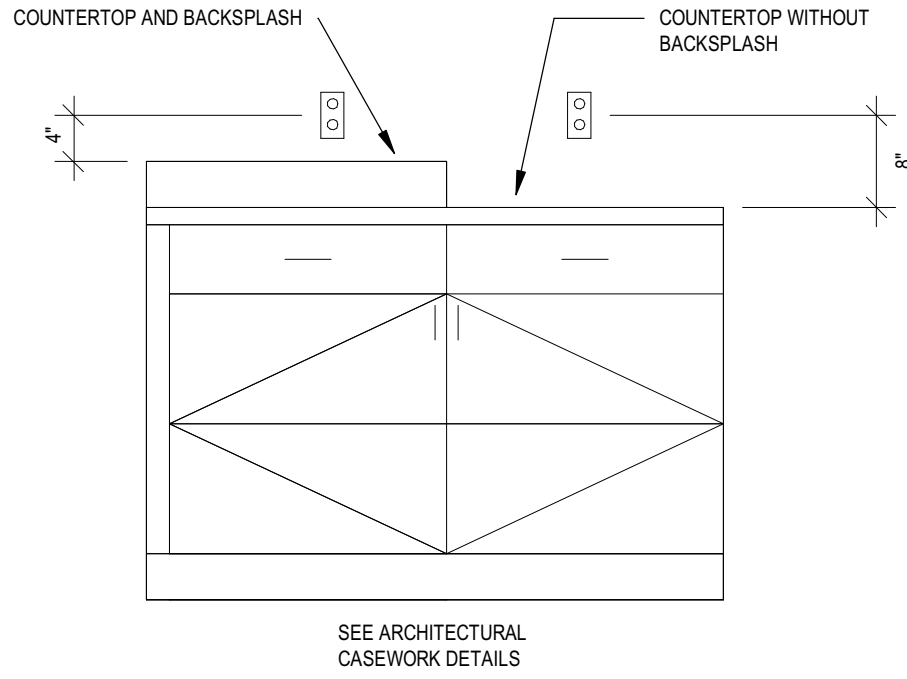
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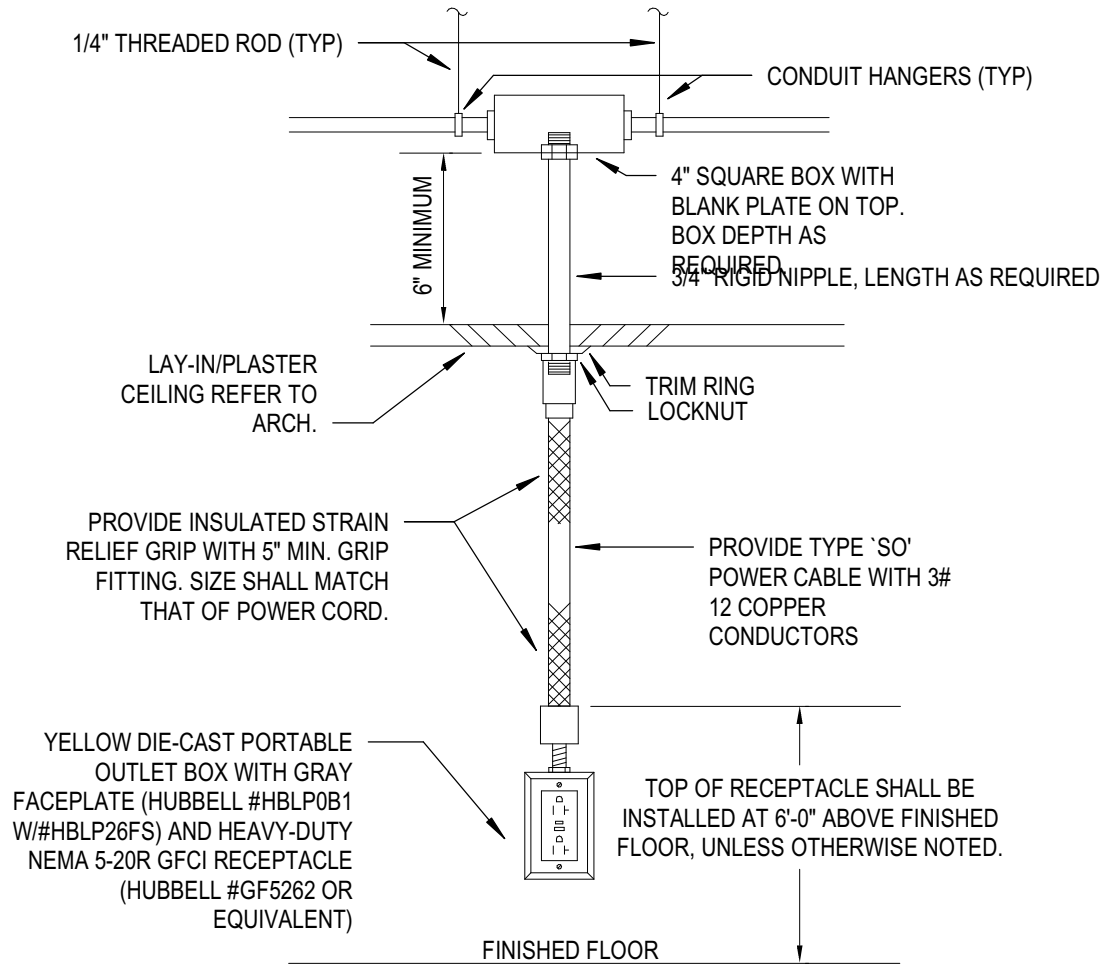
1 RECESSED FIXTURE SEISMIC SUPPORT
E6.1 NO SCALE

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2 ABOVE COUNTER RECEPTACLES
E6.1 SCALE: 12\"/>

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3 DROP CORD DETAIL
E6.1 SCALE: 3/16\"/>

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PANEL: 2H1																							
LOCATION: ELECTRICAL A107					VOLTS: 208Y/120					MOUNTING: SURFACE													
BUS RATING: 100.0 A					PHASES: 3					FED FROM: 2DPH													
MAIN BREAKER: MLO					WIRES: 4					INTEGRAL SPD: Type 1													
					SCCR: 10,000					LUG ACCESSORIES: SEE ONE-LINE													
CKT	CIRCUIT DESCRIPTION				BKR TRIP	P	BKR TYPE	LOAD TYPE	PHASE A (VA)		PHASE B (VA)		PHASE C (VA)		LOAD TYPE	BKR TYPE	P	BKR TRIP	CIRCUIT DESCRIPTION				CKT
1	REC G101				20	1		R	540	864					M		1	20	75 EWC			2	
3	REC G101				20	1		R			360	360			R		1	20	REC G101			4	
5	REC G101				20	1		R					360	900	R		1	20	REC G101			6	
7	REC G101				20	1		R	360	360					R		1	20	REC G103, EXT			8	
9	REC G101				20	1		R			360	720			R		1	20	REC D163			10	
11	REC G101				20	1		R					1,080	720	R		1	20	REC D163			12	
13	REC D161, 167				20	1		R	540	360					R		1	20	REC D103, 106			14	
15	45 WASHER				20	1		O			1,500	720			R		1	20	REC D163			16	
17	REC D162				20	1		R					720	540	R		1	20	REC D163			18	
19	REC D162				20	1		R	540	540					R		1	20	REC D163			20	
21	REC D162				20	1		R			540	528			M		1	20	42 HEATER			22	
23	46 GAS DRYER				20	1		O					200	1,200	O		1	20	SPARK CONTROL			24	
25	EF 29				20	1		O	1,200	1,200					O		1	20	ABORT GATE			26	
27	243 EF/4				20	1		M			864	1,608			K		1	20	113 DISHWASH			28	
29	REC ROOF				20	1		R					720	1,440	R		1	20	REC COUNTER			30	
31	247 EF/11A				20	1		M	864	480					K	G	1	20	RANGE (NOTE 1)			32	
33	REC ROOF				20	1		R			720	0			-		1	20	SPARE			34	
35	248 EF/11B				20	1		M					864	1,000	O		1	20	EF CONTROL			36	
37	REC ROOF				20	1		R	720	1,000					O		1	20	HOBART			38	
39	261 EF/7				20	1		M			696	1,500			O		1	20	DISHWASHER			40	
41	263 EF/30				20	1		M					696	1,000	O		1	20	VAV BOXES			42	
TOTAL LOAD:									9568 VA		10476 VA		11440 VA										
TOTAL AMPS									79.7 A		88.5 A		96.5 A										
LOAD TYPE	LOAD DESCRIPTION	CONNECTED LOAD (VA)	DEMAN D...	ESTIMATED DEMAND (VA)	DEMAND FACTOR NOTES										BKR TYPE		PANEL TOTALS						
L	LIGHTING	0 VA	0.00%	0 VA	CONTINUOUS LOAD @ 125%										G = GFCI (5mA)		CONNECTED LOAD: 31 kVA						
R	RECEPTACLES	14220 VA	85.16%	12110 VA	FIRST 10KVA @ 100%, REMAINDER @ 50%										GP = GFP (30mA)		ESTIMATED DEMAND: 30 kVA						
K	KITCHEN	2088 VA	100.00%	2088 VA	NON-DWELLING KITCHEN LOADS, NEC ART. 220										ST = SHUNT TRIP		CONNECTED CURRENT: 87.4 A						
LM	LARGEST MOTOR	0 VA	0.00%	0 VA	LARGEST MOTOR, NEC ART. 430										LO = LOCK OUT		EMD CURRENT: 82.1 A						
M	MOTOR	5376 VA	104.02%	5592 VA																			
C	COOLING	0 VA	0.00%	0 VA																			
H	HEATING	0 VA	0.00%	0 VA																			
O	OTHER	9800 VA	100.00%	9800 VA																			
Spare	SPARE	0 VA	0.00%	0 VA																			
NOTES:																							
1. CIRCUITE UPDATES																							

PANEL: 2H4																	
LOCATION: ELECTRICAL A107						VOLTS: 208Y/120				MOUNTING: SURFACE							
BUS RATING: 225.0 A						PHASES: 3				FED FROM: 2DPH							
MAIN BREAKER: MLO						WIRES: 4				INTEGRAL SPD: Type 1							
						SCCR: 10,000				LUG ACCESSORIES: SEE ONE-LINE							
CKT	CIRCUIT DESCRIPTION	BKR TRIP	P	BKR TYPE	LOAD TYPE	PHASE A (VA)		PHASE B (VA)		PHASE C (VA)		LOAD TYPE	BKR TYPE	P	BKR TRIP	CIRCUIT DESCRIPTION	CKT
1	REC H130, 132	20	1		R	360	1,000					O		1	20	E84 MACHO	2
3	REC, FRIDGE (NOTE 1)	20	1	G	R: K			1,344	1,000			O		1	20	E85 WARMER	4
5	REACH IN FREEZER (NOTE 1)	20	1	G	K					1,344	696	M		1	20	E86 REFRIG	6
7						3,700	1,000					O		1	20	E83 WARMER	8
9	COMBI OVEN STEAMER (NOTE 1)	40	3		K			3,700	1,800			O		1	20	E82 HD GRILL	10
11										3,700	1,800	O		1	20	E81 IC FREEZE	12
13	RANGE HOOD (NOTE 1)	20	1		K	600	2,000					O		1	30	E79 ESPRESSO	14
15	RECEPT (NOTE 1)	20	1		R			180	1,500			O		1	20	E78 HOT CHOC	16
17	E68 JUICE	20	1		O					1,000	1,800	O		1	20	E76 POPCORN	18
19	SNACK BAR	20	1		O	1,800	1,000					O		1	20	E74.5 BUTTER	20
21	E73 CASH SYS	20	1		O			500	500			O		1	20	E73 CASH SYS	22
23	E70 LTG	20	1		L					500	1,620	R		1	20	RECEPTACLE	24
25																	26
27	E80 SOFT	20	2		O	1,650		1,650	960			K	G	1	20	RANGES (NOTE 1)	28
29	YOGURT MACH/SNACK BAR	40	2		O					3,150	4,800	M		1	20	RANAGE HOODS (NOTE 1)	30
31						3,150	1,440					R		1	20	REC COUNTER	32
33	REC COUNTER	20	1		R			1,440	1,440			R		1	20	REC COUNTER	34
35	RANGES (NOTE 1)	20	1	G	K					960	864	R		1	20	263 EF/8	36
37	RANGE HOODS (NOTE 1)	20	1		M	3,600	864					R		1	20	264 EF/31	38
39								1,500	1,500								40
41	OVEN S140	20	2		O					1,500	1,500	O		2	20	RNG S141	42
TOTAL LOAD:						22164 VA		19014 VA		25234 VA							
TOTAL AMPS:						188.7 A		158.5 A		214.3 A							
LOAD TYPE	LOAD DESCRIPTION	CONNECTED LOAD (VA)	DEMAN D...	ESTIMATED DEMAND (VA)	DEMAND FACTOR NOTES						BKR TYPE		PANEL TOTALS				
L	LIGHTING	500 VA	125.00%	625 VA	CONTINUOUS LOAD @ 125%						G = GFCI (5mA)		CONNECTED LOAD: 66 kVA ESTIMATED DEMAND: 61 kVA CONNECTED CURRENT: 184.3 A EMD CURRENT: 170.4 A				
R	RECEPTACLES	8568 VA	100.00%	8568 VA	FIRST 10kVA @ 100%, REMAINDER @ 50%						GP = GFP (30mA)						
K	KITCHEN	15948 VA	65.00%	10386 VA	NON-DWELLING KITCHEN LOADS, NEC ART. 220						ST = SHUNT TRIP						
LM	LARGEST MOTOR	0 VA	0.00%	0 VA	LARGEST MOTOR, NEC ART. 430						LO = LOCK OUT						
M	MOTOR	9096 VA	104.95%	9546 VA													
C	COOLING	0 VA	0.00%	0 VA													
H	HEATING	0 VA	0.00%	0 VA													
O	OTHER	32300 VA	100.00%	32300 VA													
Spare	SPARE	0 VA	0.00%	0 VA													
NOTES:																	
1. CIRCUIT UPDATED.																	

PANEL: 2H3																									
LOCATION: ELECTRICAL A107						VOLTS: 208Y/120				MOUNTING: SURFACE															
BUS RATING: 100.0 A						PHASES: 3				FED FROM: 2DPH															
MAIN BREAKER: MLO						WIRES: 4				INTEGRAL SPD: Type 1															
						SCCR: 10,000				LUG ACCESSORIES: SEE ONE-LINE															
CKT	CIRCUIT DESCRIPTION					BKR TRIP	P	BKR TYPE	LOAD TYPE	PHASE A (VA)		PHASE B (VA)		PHASE C (VA)		LOAD TYPE	BKR TYPE	P	BKR TRIP	CIRCUIT DESCRIPTION					CKT
1	REC H103		20	1		R		1,440	1,080							R		1	20	REC H118			2		
3	REC H119		20	1		R						540	1,080			R		1	20	REC H118			4		
5	REC H119		20	1		R								1,080	1,080	R		1	20	REC H118			6		
7	REC H119		20	1		R		540	540							R		1	20	REC H118			8		
9	REC H119		20	1		R						1,080	540			R		1	20	REC H118			10		
11	REC H118		20	1		R								720	540	R		1	20	REC H118			12		
13	REC H120, 121		20	1		R		1,080	540							R		1	20	REC H118			14		
15	REC H120, 121		20	1		R						540	540			R		1	20	REC H118			16		
17	REC H120, 121		20	1		R								1,080	1,080	R		1	20	RECEPTACLE			18		
19	REC H103		20	1		R		720	1,080							R		1	20	SODA MACHINE			20		
21	REC H118		20	1		R						720	1,080			R		1	20	SODA MACHINE			22		
23	REC H118		20	1		R								540	1,080	R		1	20	REC H127			24		
25	REC H117		20	1		R		540	1,080							R		1	20	REC H127			26		
27	REC H117		20	1		R						540	1,080			R		1	20	REC H127			28		
29	RECEPTACLE		20	1		R								360	1,080	R		1	20	REC H127			30		
31	REC OS		20	1		R		180	180							R		1	20	REC EXT			32		
33	106 RANGE (NOTE 1)		20	1		G	K					480	1,440			K		1	20	REC COUNTER			34		
35	SPARE		20	1		--								0	480	K	G	1	20	RANGE (NOTE 1)			36		
37	SPARE		20	1		--		0	1,080							R		1	20	SODA MACHINE			38		
39	BENTO CART		20	1		R						900	1,080			R		1	20	SODA MACHINE			40		
41	BENTO CART		20	1		R								900	1,080	R		1	20	SODA MACHINE			42		
TOTAL LOAD:									10080 VA		11640 VA		11100 VA												
TOTAL AMPS									84.0 A		98.3 A		93.8 A												
LOAD TYPE	LOAD DESCRIPTION	CONNECTED LOAD (VA)	DEMAN D...	ESTIMATED DEMAND (VA)	DEMAND FACTOR NOTES										BKR TYPE		PANEL TOTALS								
L	LIGHTING	0 VA	0.00%	0 VA	CONTINUOUS LOAD @ 125%										G = GFCI (5mA)		CONNECTED LOAD: 33 kVA ESTIMATED DEMAND: 22 kVA CONNECTED CURRENT: 91.1 A EMD CURRENT: 60.8 A								
R	RECEPTACLES	31860 VA	65.69%	20930 VA	FIRST 10KVA @ 100%, REMAINDER @ 50%										GP = GFP (30mA)										
K	KITCHEN	960 VA	100.00%	960 VA	NON-DWELLING KITCHEN LOADS, NEC ART. 220										ST = SHUNT TRIP										
LM	LARGEST MOTOR	0 VA	0.00%	0 VA	LARGEST MOTOR, NEC ART. 430										LO = LOCK OUT										
M	MOTOR	0 VA	0.00%	0 VA																					
C	COOLING	0 VA	0.00%	0 VA																					
H	HEATING	0 VA	0.00%	0 VA																					
O	OTHER	0 VA	0.00%	0 VA																					
Spare	SPARE	0 VA	0.00%	0 VA																					
NOTES:																									
1. CIRCUIT UPDATED.																									

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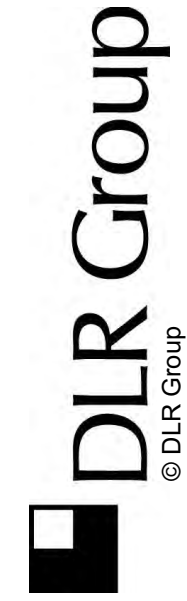
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PANEL: 4H1															
LOCATION: ELECTRICAL A107						VOLTS: 480Y/277				MOUNTING: SURFACE					
BUS RATING: 100.0 A						PHASES: 3				FED FROM: 4DPH					
MAIN BREAKER: MLO						WIRES: 4				INTEGRAL SPD: Type 1					
						SCCR: 10,000				LUG ACCESSORIES: SEE ONE-LINE					
CKT	CIRCUIT DESCRIPTION	BKR TRIP	P	BKR TYPE	LOAD TYPE	PHASE A (VA)	PHASE B (VA)	PHASE C (VA)	LOAD TYPE	BKR TYPE	P	BKR TRIP	CIRCUIT DESCRIPTION	CKT	
1	LTG H128-130	20	1		L	1,856	2,808		L		1	20	LTG H122	2	
3	LTG H120-1,7	20	1		L		2,822	2,160		L		1	20	LTG H122-125	4
5	SPACE	--	--	--				0	0	--		1	20	SPARE	6
7	LTG H104-7, 10	20	1		L	2,721	0			--		1	20	SPARE	8
9	LTG H108-114	20	1		L		3,139	0		--		1	20	SPARE	10
11	LTG H117-119	20	1		L			3,139	0	--		1	20	SPARE	12
13						2,023	0			--		1	20	SPARE	14
15	MAU-1 (NOTE 1)	15	3		M		2,023	0		--		1	20	SPARE	16
17								2,023	0	--		1	20	SPARE	18
19						3,076	0			--		1	20	SPARE	20
21	EF-1 (NOTE 1)	15	3		M		3,076	0		--		1	20	SPARE	22
23								3,076	0	--		1	20	SPARE	24
25						1,192	720								26
27	EF-2(NOTE 1)	15	3		M		1,192	720		M		3	20	265 EF/32	28
29								1,192	720						30
31	SPARE	20	1		--	0	0			--	--	--	--	SPACE	32
33	SPARE	20	1		--		0	0		--	--	--	--	SPACE	34
35	SPARE	20	1		--			0	0	--	--	--	--	SPACE	36
37	SPARE	20	1		--	0	0			--	--	--	--	SPACE	38
39	SPARE	20	1		--			0	0	--	--	--	--	SPACE	40
41	SPARE	20	1		--				0	--	--	--	--	SPACE	42
TOTAL LOAD:						14396 VA		15132 VA		10150 VA					
TOTAL AMPS						54.3 A		57.0 A		36.6 A					
LOAD TYPE	LOAD DESCRIPTION	CONNECTED LOAD (VA)	DEMAN D...	ESTIMATED DEMAND (VA)	DEMAND FACTOR NOTES				BKR TYPE				PANEL TOTALS		
L	LIGHTING	18645 VA	125.00%	23306 VA	CONTINUOUS LOAD @ 125%				G = GFCI (5mA)						
R	RECEPTACLES	0 VA	0.00%	0 VA	FIRST 10KVA @ 100%, REMAINDER @ 50%				GP = GFP (30mA)				CONNECTED LOAD: 40 kVA		
K	KITCHEN	0 VA	0.00%	0 VA	NON-DWELLING KITCHEN LOADS, NEC ART. 220				ST = SHUNT TRIP				ESTIMATED DEMAND: 47 kVA		
LM	LARGEST MOTOR	0 VA	0.00%	0 VA	LARGEST MOTOR, NEC ART. 430				LO = LOCK OUT				CONNECTED CURRENT: 47.7 A		
M	MOTOR	21033 VA	110.97%	23340 VA									EMD CURRENT: 56.1 A		
C	COOLING	0 VA	0.00%	0 VA											
H	HEATING	0 VA	0.00%	0 VA											
O	OTHER	0 VA	0.00%	0 VA											
Spare	SPARE	0 VA	0.00%	0 VA											
NOTES:															
1. CIRCUIT UPDATED.															

PANEL: 2DPH																		
LOCATION: ELECTRICAL A107						VOLTS: 208Y/120				MOUNTING: SURFACE								
BUS RATING: 800.0 A						PHASES: 3				FED FROM: T2DPH								
MAIN BREAKER: 700 A						WIRES: 4				INTEGRAL SPD: Type 1								
						SCCR: 10,000A				LUG ACCESSORIES: SEE ONE-LINE								
CKT	CIRCUIT DESCRIPTION	BKR TRIP	P	BKR TYPE	LOAD TYPE	PHASE A (VA)		PHASE B (VA)		PHASE C (VA)		LOAD TYPE	BKR TYPE	P	BKR TRIP	CIRCUIT DESCRIPTION	CKT	
1						9,568	7,112										2	
3	2H1	100	3		R; K; O; M			10,476	7,112			--			3	100	2A1	4
5										11,440	7,112						6	
7						11,275	22,164										8	
9	SPARE	125	3		--			11,275	19,014			L; R; K; O; M		3	225	2H4	10	
11										11,275	25,234						12	
13						10,080	10,526										14	
15	2H3	100	3		R; K			11,640	9,986			R; K		3	100	2H5	16	
17										11,100	9,638						18	
19																	20	
21																	22	
23																	24	
25																	26	
27																	28	
29																	30	
31																	32	
33																	34	
35																	36	
37																	38	
39																	40	
41																	42	
TOTAL LOAD:						70725 VA		68503 VA		75799 VA								
TOTAL AMPS						590.9 A		579.2 A		633.2 A								
LOAD TYPE	LOAD DESCRIPTION	CONNECTED LOAD (VA)	DEMAN D...	ESTIMATED DEMAND (VA)	DEMAND FACTOR NOTES						BKR TYPE		PANEL TOTALS					
L	LIGHTING	500 VA	125.00%	625 VA	CONTINUOUS LOAD @ 125%						G = GFCI (5mA)							
R	RECEPTACLES	58068 VA	58.61%	34034 VA	FIRST 10KVA @ 100%, REMAINDER @ 50%						GP = GFP (30mA)		CONNECTED LOAD: 216 kVA					
K	KITCHEN	45727 VA	65.00%	29723 VA	NON-DWELLING KITCHEN LOADS, NEC ART. 220						ST = SHUNT TRIP		ESTIMATED DEMAND: 177 kVA					
LM	LARGEST MOTOR	0 VA	0.00%	0 VA	LARGEST MOTOR, NEC ART. 430						LO = LOCK OUT		CONNECTED CURRENT: 599.6 A					
M	MOTOR	14472 VA	103.11%	14922 VA									EMD CURRENT: 490.1 A					
C	COOLING	0 VA	0.00%	0 VA														
H	HEATING	0 VA	0.00%	0 VA														
O	OTHER	42100 VA	100.00%	42100 VA														
Spare	SPARE	55161 VA	100.00%	55161 VA	(DEMAND LOADS FOR 2A1 AND 2H2)													
NOTES:																		



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PANEL
SCHEDULES

E7.2

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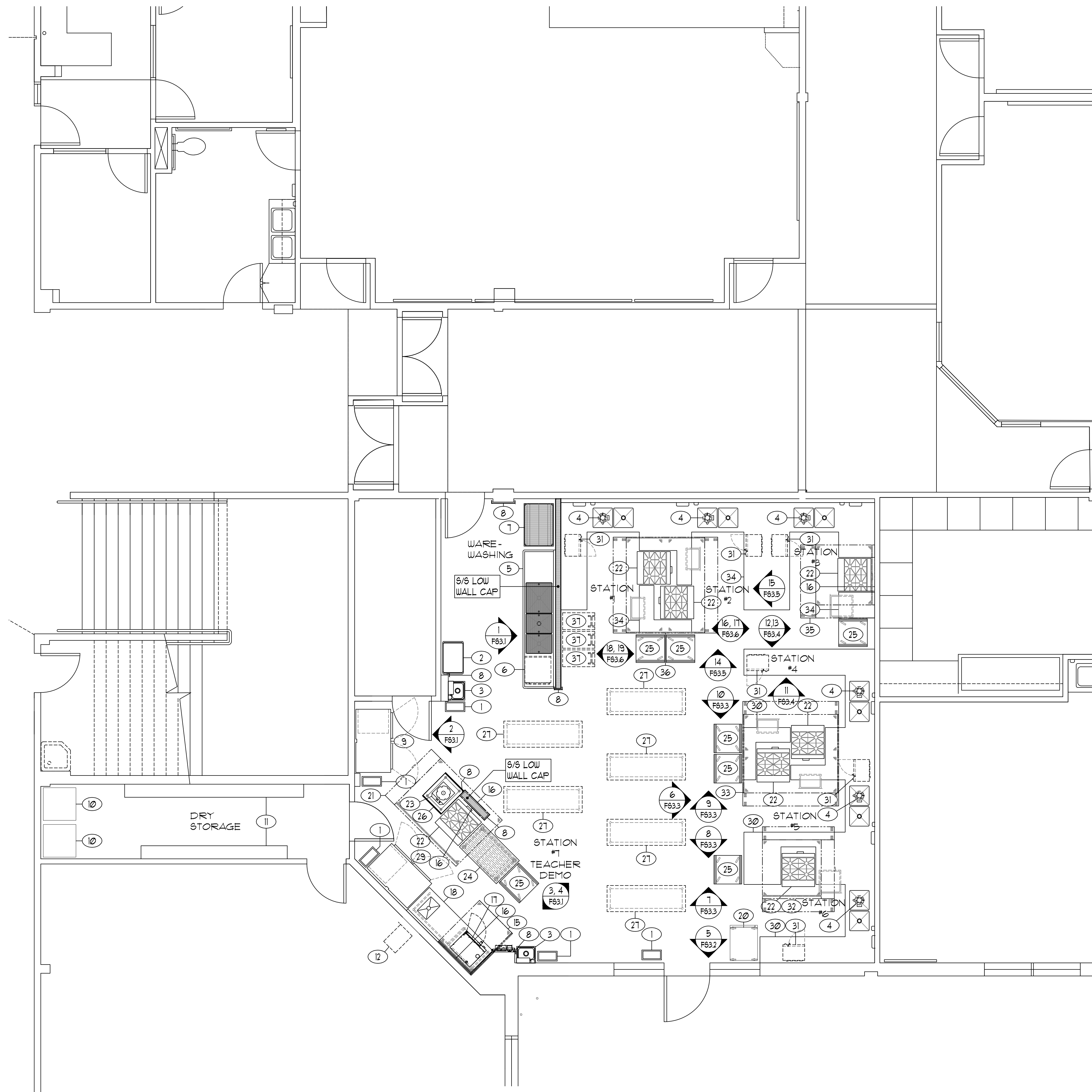
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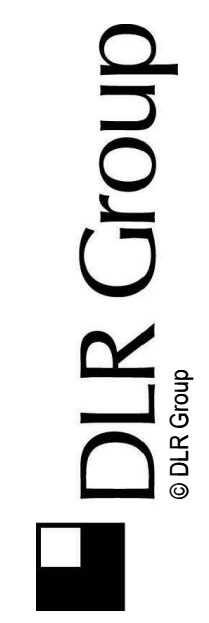
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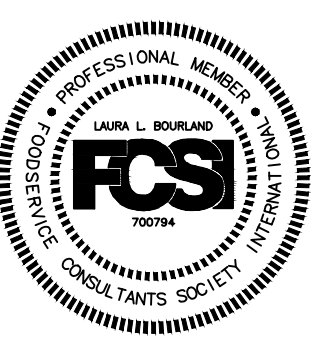


ADD-01

EQUIPMENT SCHEDULE			
ITEM	DESCRIPTION	QUAN.	REMARKS:
1	SLIM JIM WASTE RECEPTACLES	5	---
2	UTILITY CART	1	---
3	HAND WASHING SINKS	2	---
4	DISPOSERS	6	---
5	POT WASHING SINK TABLE WITH REMOVABLE SINK COVERS	1	---
6	UNDERCOUNTER WAREWASHER	1	EXISTING/RELOCATED - ADD NEW DWT KIT
7	MOBILE POT AND PAN SHELVE	1	---
8	CORNER/CHANNEL GUARDS	LOT	---
9	REACH-IN REFRIGERATOR	1	---
10	CLOTHES WASHER AND DRYER	1	BY OWNER
11	DRY STORAGE SHELVE	LOT	EXISTING EQUIPMENT
12	CUBE ICE MACHINE	1	EXISTING EQUIPMENT - RELOCATE/REINSTALL
13	NOT USED	---	---
14	NOT USED	---	---
15	CANOPY HOOD WITH FIRE PROTECTION SYSTEM	1	---
16	STAINLESS STEEL WALL FLASHING	LOT	---
17	COMBI-OVEN STEAMER	1	---
18	ADA PREP WORK TABLE	1	---
19	NOT USED	---	---
20	MOBILE PROOFING CABINET	1	---
21	CANOPY HOOD WITH FIRE PROTECTION SYSTEM	1	---
22	4-BURNER OPEN RANGES	7	---
23	INDUCTION WOK	1	---
24	TEACHERS MAPLE TOP WORK TABLE	1	---
25	MOBILE INGREDIENT CARTS	6	---
26	MOBILE TABLE	1	---
27	MOBILE ISLAND TABLES	6	EXISTING EQUIPMENT
28	NOT USED	---	---
29	REACH-IN FREEZER	1	---
30	STUDENT WORK STATION	1	---
31	MICROWAVE OVENS	6	EXISTING/RELOCATED
32	CANOPY HOOD WITH FIRE PROTECTION SYSTEM	1	---
33	CANOPY HOOD WITH FIRE PROTECTION SYSTEM	1	---
34	STUDENT WORK STATION	1	---
35	CANOPY HOOD WITH FIRE PROTECTION SYSTEM	1	---
36	CANOPY HOOD WITH FIRE PROTECTION SYSTEM	1	---
37	MOBILE INGREDIENT BINS	3	EXISTING/RELOCATED



DLR Group
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PROFESSIONAL ENGINEER
LICENSE NO. 200794
STATE OF OREGON



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FACILITY CONSULTANTS
SPACE PLANNING • DESIGN

CULINARY CLASSROOM
Westview High School - Beaverton School District
4200 NW 185th Ave, Portland, OR 97229

BID & PERMIT SET

02.18.21
REVISIONS
ADD-01 3/17/21

74-21106-00

FOOD SERVICE
EQUIPMENT PLAN

FS1.1



NOTE: REFER TO PLUMBING DRAWINGS CONFIRMING ALL EQUIPMENT DRAIN LINES ARE TO RUN TO GREASE INTERCEPTORS. DRAIN LINES ARE TO RUN DIRECTLY BACK TO WALLS AND RUN ALONG WALLS TO BE CLEAR OF UNDER TABLE STORAGE SPACE.

1. THIS DRAWING IS NOT TO BE USED FOR ESTABLISHING ROUGH-IN LOCATIONS. REFER TO DIMENSIONED DRAWING PREPARED BY THE KITCHEN EQUIPMENT CONTRACTOR.
2. UNDER PLUMBING WORK OF DIVISION 22, MAKE ALL ROUGH-INS AND FINAL CONNECTIONS IN CONFORMANCE WITH LOCAL CODES. PROVIDE SHUT-OFF VALVES WITH PERMANENT NAME TAGS IDENTIFYING SUPPLY LINES TO EACH INDIVIDUAL PIECE OF EQUIPMENT. INCLUDE TRAPS, TAIL PIECES, AND LINE STRAINERS AS REQUIRED.
3. UNDER PLUMBING WORK OF DIVISION 22, FURNISH AND INSTALL ALL FLOOR SINKS AND AREA DRAINS FLUSH WITH FINISHED FLOOR IF CODE ALLOWS.
4. UNDER PLUMBING WORK OF DIVISION 22, FURNISH AND INSTALL GREASE TRAP OR INTERCEPTOR AS REQUIRED.
5. UNDER PLUMBING WORK OF DIVISION 22, FURNISH AND INSTALL ALL SINK WASTE LINES. USE COPPER DRAIN LINES. NO PVC IS ACCEPTABLE.
6. UNDER KITCHEN EQUIPMENT WORK OF DIVISION 11, PROVIDE FAUCETS AT EQUIPMENT. UNDER PLUMBING WORK OF DIVISION 22, INSTALL AND CONNECT FAUCETS.
7. UNDER PLUMBING WORK OF DIVISION 22, FURNISH AND INSTALL CHROME PLATED VACUUM BREAKERS OR BACKFLOW PREVENTION DEVICES ON SUPPLY LINES TO EQUIPMENT AS REQUIRED BY CODES.
8. UNDER PLUMBING WORK OF DIVISION 22, FURNISH AND INSTALL STAINLESS STEEL OR CHROME PLATED ESCUTCHEON PLATES FOR ALL WATER LINES PENETRATING COUNTER TOPS AND BACK SPLASHES.
9. UNDER PLUMBING WORK OF DIVISION 22, FURNISH PRESSURE REDUCING VALVE FOR ALL GAS AND WATER LINES. MAXIMUM WATER PRESSURE AT BOOSTER HEATER AND DISHWASHER SHALL BE 20 PSI.
10. UNDER KITCHEN EQUIPMENT WORK OF DIVISION 11, FURNISH GAS QUICK DISCONNECT ASSEMBLIES WITH CABLE RESTRAINTS FOR EACH GAS FIRED COOKING APPLIANCE.
11. UNDER PLUMBING WORK OF DIVISION 22, PROVIDE 120 DEGREE HOT WATER SUPPLY AT WAREWASHER/ BOOSTER HEATER AS SHOWN. VERIFY REQUIRED TEMPERATURE FOR SUPPLY AT SINK FAUCETS WITH LOCAL AND NATIONAL CODES.
12. UNDER PLUMBING WORK OF DIVISION 22, FURNISH AND INSTALL A SOLENOID VALVE ON PRIMARY GAS SUPPLY TO SHUT-OFF EQUIPMENT DURING FIRE SYSTEM ACTIVATION. SOLENOID SHALL BE ACCESSIBLE FOR SERVICING, TESTING, AND RESETTING IN THE EVENT OF SYSTEM ACTIVATION.
13. SEE PLUMBING AND MECHANICAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.

COLD WATER	
HOT WATER	
WASTE	
GAS	
FLOOR DRAIN	
FLOOR SINK	

2

3

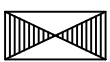
4



- M1. ONE (1) 10" DIAMETER TYPE I EXHAUST CONNECTION AT CANOPY HOOD.
100 CFM WITH -0.333" STATIC PRESSURE AT DUCT COLLAR
- M2. ONE (1) 14" DIAMETER TYPE I EXHAUST CONNECTION AT CANOPY HOOD.
2,000 CFM WITH -1.055" STATIC PRESSURE AT DUCT COLLAR
- M3. TWO (2) 36" X 8" SUPPLY DUCT CONNECTIONS AT CANOPY HOOD.
601 CFM EACH WITH 0.134" STATIC PRESSURE AT DUCT COLLARS.
- M4. ONE (1) 12" DIAMETER TYPE I EXHAUST CONNECTION AT CANOPY HOOD.
1,350 CFM WITH -0.306" STATIC PRESSURE AT DUCT COLLAR
- M5. FOUR (4) 24" X 10" SUPPLY DUCT CONNECTIONS AT CANOPY HOOD.
410 CFM EACH WITH 0.123" STATIC PRESSURE AT DUCT COLLARS.
- M6. ONE (1) 20" DIAMETER TYPE I EXHAUST CONNECTION AT CANOPY HOOD.
2,508 CFM WITH -0.111" STATIC PRESSURE AT DUCT COLLAR
- M7. TWO (2) 24" X 10" SUPPLY DUCT CONNECTIONS AT CANOPY HOOD.
515 CFM EACH WITH 0.146" STATIC PRESSURE AT DUCT COLLARS.
- M8. ONE (1) 10" DIAMETER TYPE I EXHAUST CONNECTION AT CANOPY HOOD.
1,146 CFM WITH -0.291" STATIC PRESSURE AT DUCT COLLAR
- M9. FOUR (4) 24" X 10" SUPPLY DUCT CONNECTIONS AT CANOPY HOOD.
410 CFM EACH WITH 0.123" STATIC PRESSURE AT DUCT COLLARS.
- M10. ONE (1) 20" DIAMETER TYPE I EXHAUST CONNECTION AT CANOPY HOOD.
2,508 CFM WITH -0.111" STATIC PRESSURE AT DUCT COLLAR

MECHANICAL SYMBOL LEGEND

SUPPLY DUCT



EXHAUST DUCT



GENERAL MECHANICAL NOTES

1. THIS DRAWING IS NOT TO BE USED FOR ESTABLISHING ROUGH-IN LOCATIONS. REFER TO DIMENSIONED DRAWING PREPARED BY THE KITCHEN EQUIPMENT CONTRACTOR.
2. CANOPY HOODS MUST BE UL LISTED AND LABELED FOR 0" CLEARANCE BY MANUFACTURER IN ACCORDANCE WITH UL 710.
3. REFER TO SHEETS F62.1 THRU F62.12 HOOD MANUFACTURER DRAWINGS FOR ADDITIONAL INFORMATION.
4. SEE MECHANICAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.



1. THIS DRAWING IS NOT TO BE USED FOR ESTABLISHING ROUGH-IN LOCATIONS. REFER TO DIMENSIONED DRAWINGS PREPARED BY THE KITCHEN EQUIPMENT CONTRACTOR.
2. UNDER ELECTRICAL WORK OF DIVISION 26, PROVIDE ALL ROUGH-INS AND FINAL CONNECTIONS IN CONFORMANCE WITH LOCAL CODES.
3. HOOD LIGHTS ARE FURNISHED UNDER KITCHEN EQUIPMENT, DIVISION 11. UNDER ELECTRICAL WORK OF DIVISION 26, FURNISH AND INSTALL SWITCHES AND FURNISH AND INSTALL ALL INTERCONNECTING CONDUIT AND WIRING CONCEALED FROM SIGHT.
4. UNDER ELECTRICAL WORK OF DIVISION 26, FURNISH AND INSTALL ALL INTERCONNECTING WIRING ACROSS CEILING AS REQUIRED BETWEEN HOODS AND HOOD FIRE CONTROL PANEL.
5. ALL ELECTRICAL RECEPTACLES SHALL BE MOUNTED HORIZONTALLY ON FIXTURES AND WALLS.
6. UNDER ELECTRICAL WORK OF DIVISION 26, PROVIDE ALL DISCONNECTS, INTERLOCKS, AND CONTRACTORS REQUIRED BY LOCAL CODES.
7. UNDER ELECTRICAL WORK OF DIVISION 26, FURNISH AND INSTALL SHUNT TRIP CIRCUIT BREAKERS TO SHUT OFF POWER SUPPLY TO ALL ELECTRICAL COOKING EQUIPMENT DURING FIRE SYSTEM ACTIVATION.
8. UNDER WORK OF KITCHEN EQUIPMENT, DIVISION 11, FURNISH AND INSTALL STAINLESS STEEL OR CHROME PLATED ESCUTCHEON PLATES FOR ALL ELECTRICAL CONNECTIONS PENETRATING COUNTER TOPS FOR BELOW COUNTER PLUG-INS.
9. UNDER ELECTRICAL WORK OF DIVISION 26, FURNISH AND INSTALL ALL INTERCONNECTING WIRING BETWEEN WAREWASHER CONTROL PANEL AND EXHAUST FAN FOR AUTO FAN ON/OFF DURING EQUIPMENT OPERATION. SET FAN TO CONTINUE TO RUN AN EXTRA 20 MINUTES AFTER WAREWASHER IS TURNED-OFF.
10. UNDER ELECTRICAL WORK OF DIVISION 26, PROVIDE POWER TO HOOD LIGHTS AND EXHAUST FAN ON FAN/INTERLOCK WITH MAKE-UP AIR SUPPLY UNIT PER MECHANICAL ENG. PLANS. INTERCONNECT TO FAN/LIGHT/WALL SWITCH FURNISHED BY HOOD MANUFACTURER AND INSTALL @ 48" ABOVE FINISHED FLOOR.
11. UNDER KITCHEN WORK OF DIVISION 11 LOCATE MANUAL FIRE SUPPRESSION PULL STATION PER CODES. PROVIDE OCTAGON BOX AND RUN EMPTY CONDUIT TO FIRE SUPPRESSION CONTROL HEAD. MINIMUM 12" RADIUS BENDS IN ANY CHANGE OF DIRECTION. SET PULL STATION BOX @ 48" AFF. TO CENTER LINE.

ELECTRICAL SYMBOL LEGEND

DCO (DUPLEX CONVENIENCE OUTLET)	
J-BOX (JUNCTION BOX)	
SCO	
SWITCH(S)	
LIGHT	
FLOOR OR CEILING STUB (AS NOTED)	
CANOPY HOOD TEMP SENSOR	

FIRE PROTECTION LEGEND

FIRE PROTECTION SYSTEM MANUAL FULL (F)

NOTE:

LOCATE MANUAL FIRE SUPPRESSION FULL STATIONS PER CODES:

- DEVICES TO BE LOCATED A MINIMUM OF 10 FEET AND A MAXIMUM OF 20 FEET FROM THE KITCHEN EXHAUST SYSTEM IT SERVES. E.G. TO PROVIDE OCTAGON BOX AND RUN EMPTY CONDUIT TO FIRE SUPPRESSION CONTROL HEAD. MINIMUM 12" RADIUS BENDS IN ANY CHANGE OF DIRECTION. SET FULL STATION BOX @ 48" AFF. TO CENTERLINE. TYPICAL ALL LOCATIONS

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FOR QUESTIONS, CALL THE
Seattle Office
Jon Clarke
PHONE: (425) 212-5996
EMAIL: reg85@captivatefire.com

PATENT NUMBERS

AC-PSP (UNITED STATES) - US PATENT 7963830 B2.
AC-PSP WALL (CANADA) - CA PATENT 2820509.
AC-PSP ISLAND (CANADA) - CA PATENT 2520330.
EXHAUST HOODS ND-2/BD-2/SND-2 (CANADA) - CA PATENT 2520435 C.

HOOD INFORMATION - JOB#4727014

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S)							TOTAL SUPPLY CFM	HOOD CONSTRUCTION	HOOD CONFIG	
										WIDTH	LENG	HEIGHT	DIA	CFM	VEL	SP			END TO END	ROW
1	Item 36	7230 NDI-PSP-FB	CAPTIVEAIRE	7' 2"	400 DEG	I	MEDIUM	350	2508			4"	20"	2508	1843	-0.711'	1881	304 SS 100%	ALONE	ALONE
2	Item 35	5430 ND-2-PSP-F	CAPTIVEAIRE	4' 7"	600 DEG	I	HEAVY	250	1146			4"	10"	1146	2101	-0.891'	1031	304 SS 100%	ALONE	ALONE
3	Item 33	7230 NDI-PSP-FB	CAPTIVEAIRE	7' 2"	400 DEG	I	MEDIUM	350	2508			4"	20"	2508	1843	-0.711'	1881	304 SS 100%	ALONE	ALONE
4	Item 32	5430 ND-2WI-PSP-FB	CAPTIVEAIRE	4' 6"	600 DEG	I	HEAVY	300	1350			4"	12"	1350	1719	-0.906'	1215	304 SS 100%	ALONE	ALONE
5	Item 21	6030 ND-2WI	CAPTIVEAIRE	6' 8"	600 DEG	I	HEAVY	300	2000			4"	14"	2000	1871	-1.055'	0	304 SS 100%	ALONE	ALONE
6	Item 15	5430 ND-2	CAPTIVEAIRE	3' 6"	600 DEG	I	HEAVY	200	700			4"	10"	700	1283	-0.333'	0	304 SS 100%	ALONE	ALONE

HOOD INFORMATION

HOOD NO	TAG	TYPE	FILTER(S)				QTY	LIGHT(S)				UTILITY CABINET(S)				FIRE SYSTEM	HOOD HANGING WEIGHT
			HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS			TYPE	WIRE GUARD	LOCATION	SIZE	TYPE	SIZE	ELECTRICAL MODEL #	SWITCHES QUANTITY		
1	Item 36	CAPTRATE SOLO FILTER	10	20"	16"	85% SEE FILTER SPEC	4	RECESSED	NO							YES	806 LBS
2	Item 35	CAPTRATE SOLO FILTER	3	20"	16"	85% SEE FILTER SPEC	2	RECESSED	NO	RIGHT	12"x54"x30"	ANSUL R102	3.0/3.0	DCV-1011	1 LIGHT 1 FAN	YES	530 LBS
3	Item 33	CAPTRATE SOLO FILTER	10	20"	16"	85% SEE FILTER SPEC	4	RECESSED	NO							YES	698 LBS
4	Item 32	CAPTRATE SOLO FILTER	3	20"	16"	85% SEE FILTER SPEC	2	RECESSED	NO	LEFT	12"x54"x30"	ANSUL R102	3.0/3.0	DCV-1111	1 LIGHT 1 FAN	YES	540 LBS
5	Item 21	CAPTRATE SOLO FILTER	4	20"	16"	85% SEE FILTER SPEC	2	RECESSED	NO	RIGHT	12"x60"x30"	ANSUL R102	3.0/3.0			YES	543 LBS
6	Item 15	CAPTRATE SOLO FILTER	2	20"	20"	85% SEE FILTER SPEC	1	RECESSED	NO							YES	265 LBS

HOOD OPTIONS

HOOD NO	TAG	OPTION					
		LEFT END STANDOFF<FIN/INS- ISLAND>	1' WIDE	72" LONG	INSULATED.		
1	Item 36	RIGHT END STANDOFF<FIN/INS- ISLAND>	1' WIDE	72" LONG	INSULATED.		
		BALANCE DAMPERS.					
		INSULATION FOR TOP OF HOOD.					
		SENSOR-CV.					
2	Item 35	BALANCE DAMPERS.					
		INSULATION FOR TOP OF HOOD.					
		INSULATION FOR BACK OF HOOD.					
		SENSOR-CV.					
3	Item 33	LEFT END STANDOFF<FIN/INS- ISLAND>	1' WIDE	72" LONG	INSULATED.		
		RIGHT END STANDOFF<FIN/INS- ISLAND>	1' WIDE	72" LONG	INSULATED.		
		BALANCE DAMPERS.					
		RISE SENSOR INSTALL 3IN DBL.					
4	Item 32	BALANCE DAMPERS.					
		INSULATION FOR TOP OF HOOD.					
		INSULATION FOR BACK OF HOOD.					
		FINISHED BACK- ISL/REV INSTALL 54.00" LONG, <FILTERS TO THE FRONT>.					
5	Item 21	SENSOR-CV.					
		BALANCE DAMPERS.					
		INSULATION FOR TOP OF HOOD.					
		INSULATION FOR BACK OF HOOD.					
6	Item 15	FINISHED BACK- ISL/REV INSTALL 80.00" LONG, <FILTERS TO THE FRONT>.					
		SENSOR-CV.					
		LEFT END STANDOFF <FINISHED>	1' WIDE	54" LONG	INSULATED.		
		BALANCE DAMPERS.					
		INSULATION FOR TOP OF HOOD.					
		INSULATION FOR BACK OF HOOD.					
		SENSOR-CV.					
		LEFT WALL AS END PANEL.					

PERFORATED SUPPLY PLENUM(S)

HOOD NO	TAG	PDS	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S)				
							WIDTH	LENG	DIA	CFM	SP
1	Item 36	Back	88"	12"	6"	MUA	10"	24"		470	0.123'
						MUA	10"	24"		470	0.123'
		Front	88"	12"	6"	MUA	10"	24"		470	0.123'
						MUA	10"	24"		470	0.123'
2	Item 35	Front	67"	14"	6"	MUA	10"	24"		515	0.146'
						MUA	10"	24"		515	0.146'
3	Item 33	Back	88"	12"	6"	MUA	10"	24"		470	0.123'
						MUA	10"	24"		470	0.123'
		Front	88"	12"	6"	MUA	10"	24"		470	0.123'
						MUA	10"	24"		470	0.123'
4	Item 32	Back	66"	12"	6"	MUA	8"	36"		607	0.134'
						MUA	8"	36"		607	0.134'

SPECIFICATION: CAPTRATE® GREASE-STOP® SOLO FILTER

THE CAPTRATE GREASE-STOP SOLO FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-Baffle DESIGN IN CONJUNCTION WITH A SLOTTED REAR Baffle DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.

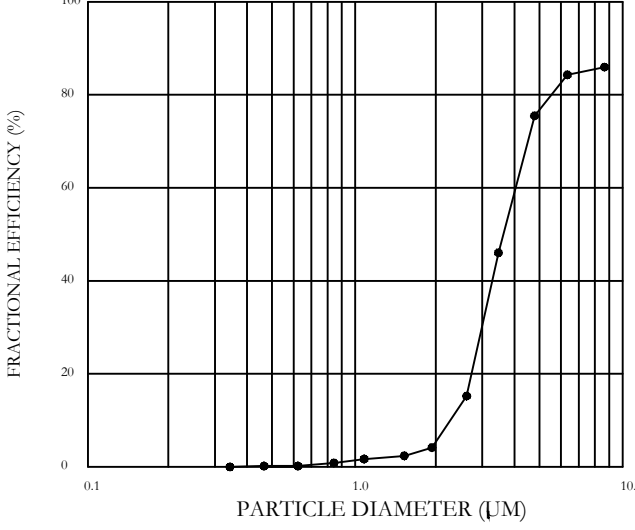
FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.

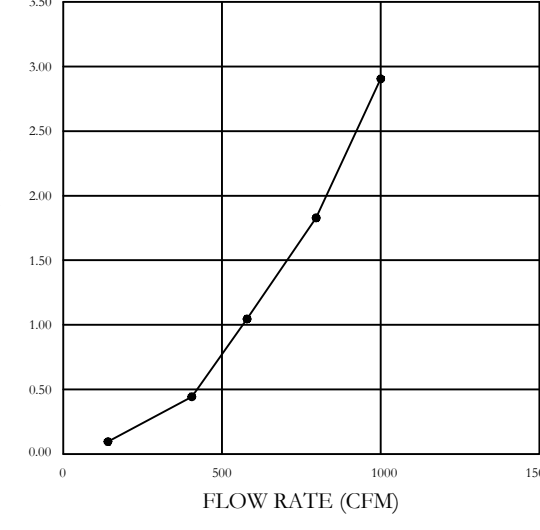
GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE.

THE CAPTRATE GREASE-STOP SOLO WAS TESTED TO ASTM STANDARD ASTM F2519-05. MANUFACTURER APPROVED FOR USE IN SOLID FUEL APPLICATIONS AS A SPARK ARRESTER.

EFFICIENCY VS. PARTICLE DIAMETER

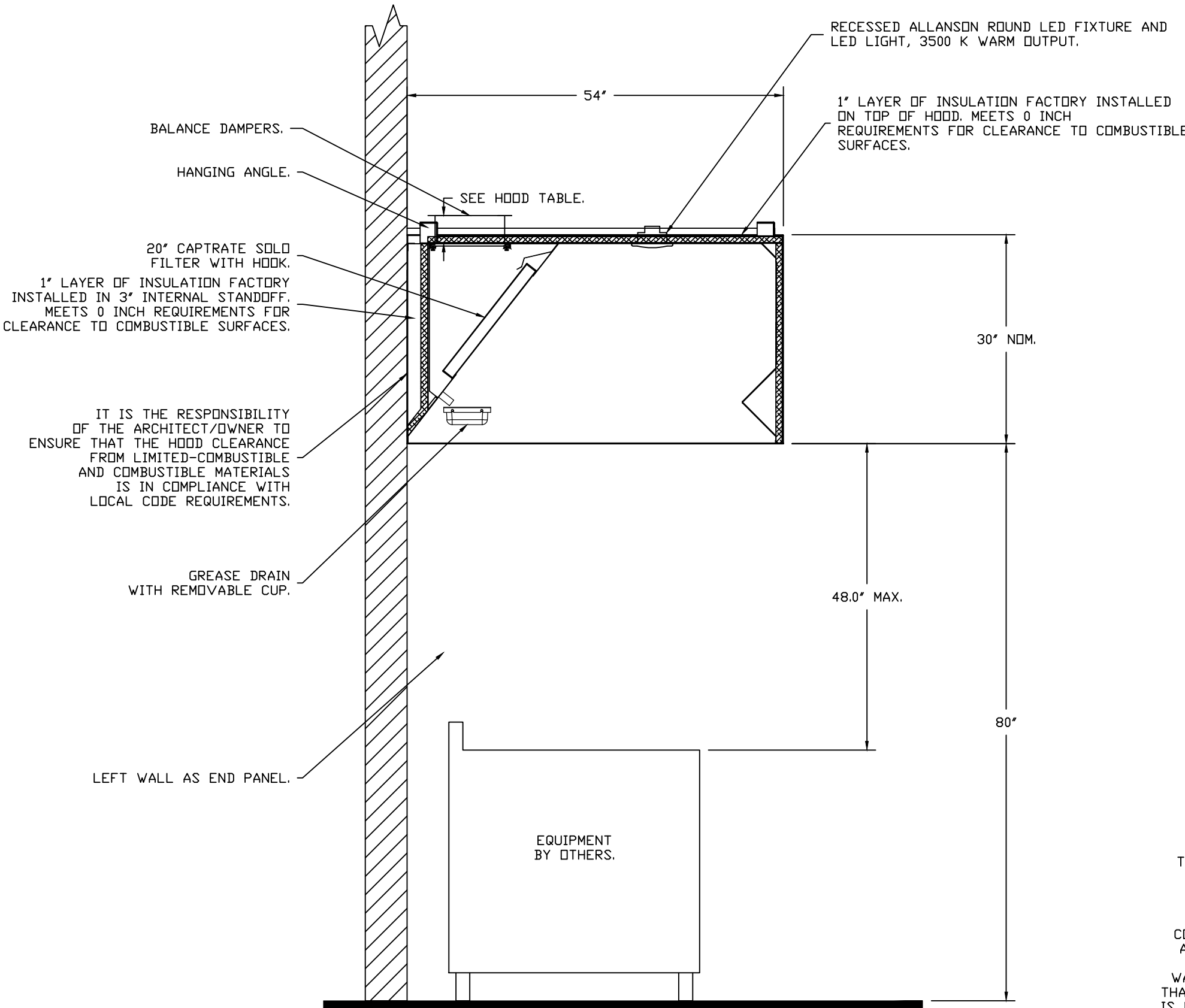


PRESSURE DROP VS. FLOW RATE

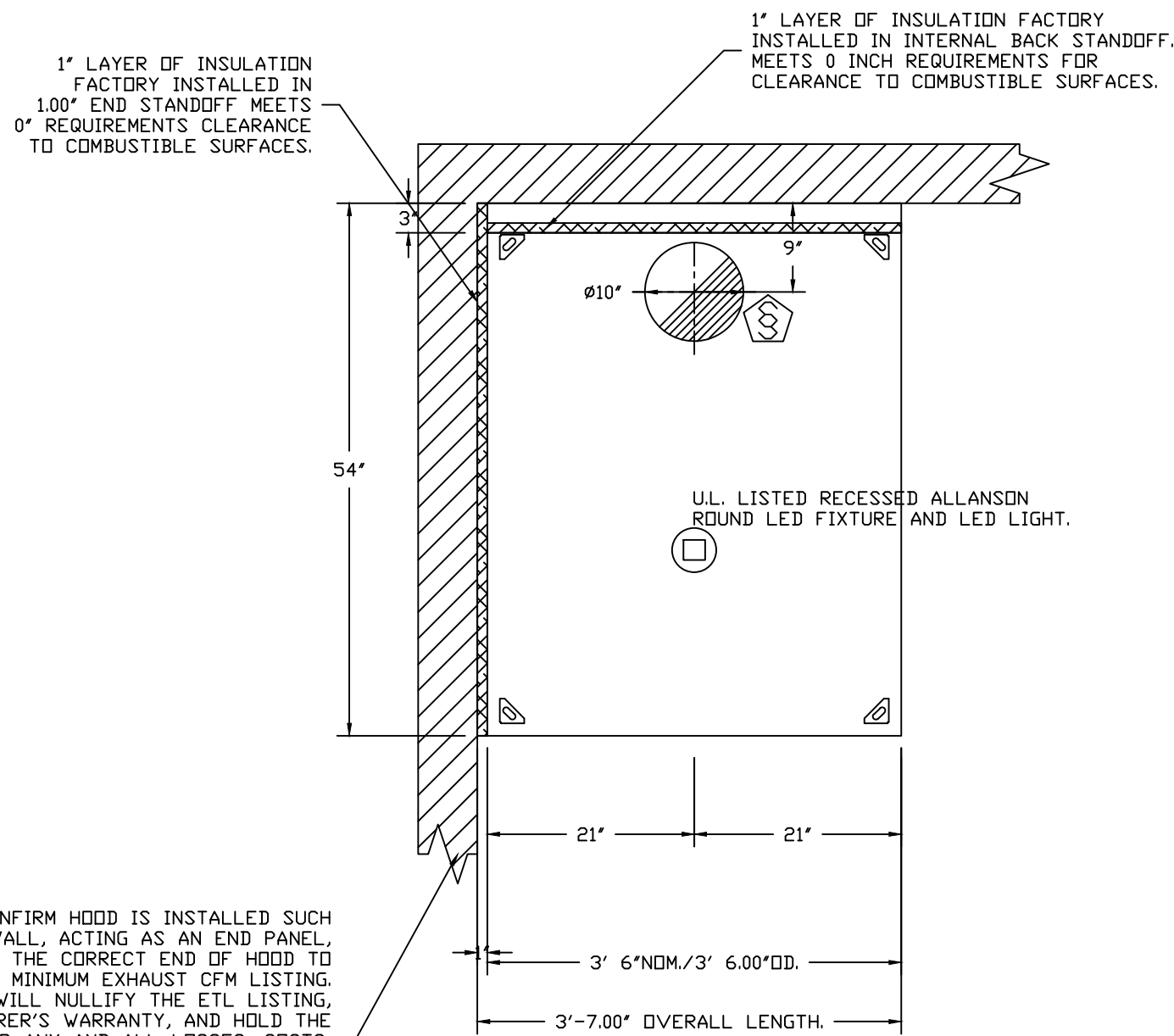


CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH:

NFPA #96.
NSF STANDARD #2.
UL STANDARD #1046.
INT. MECH. CODE (IMC).
ULC-S649.



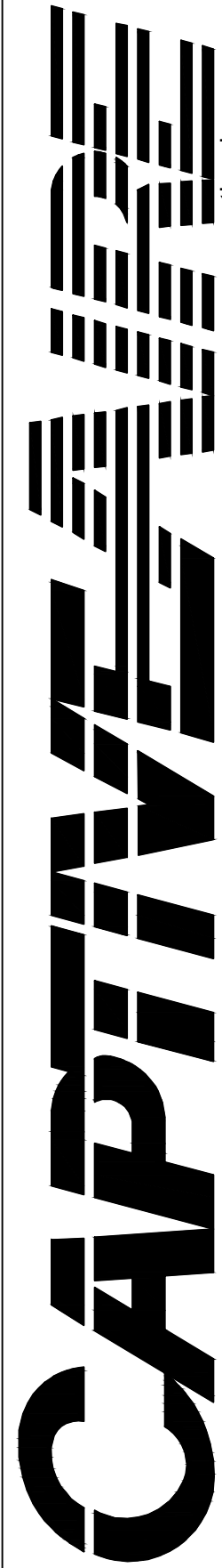
SECTION VIEW - MODEL 5430ND-2
HOOD - #6 (Item 15)



PLAN VIEW - HOOD #6 (Item 15)
3' 6.00\"/>

REVISIONS

DESCRIPTION	DATE:



1309 Pacific Ave. Everett, WA 98201 PHONE: (425) 212-5998 FAX: (425) 212-5998 EMAIL: reg85@captivatefire.com

Westview HS R5
PORTLAND, OR, 97229

DATE: 2/5/2021

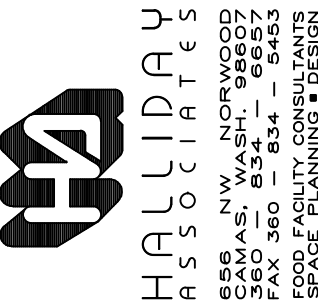
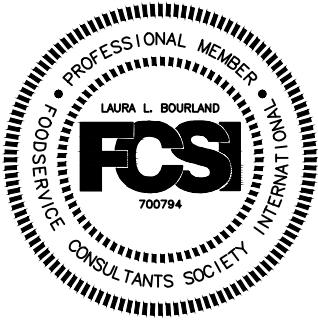
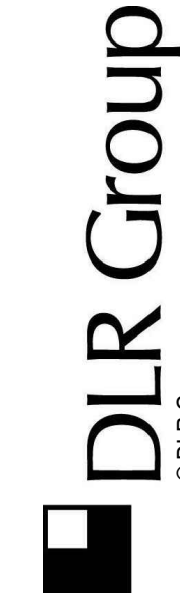
DWG.#:
4727014

DRAWN BY:
JDC-85

SCALE:
3/4" = 1'-0"

MASTER DRAWING

SHEET NO.
1



CULINARY CLASSROOM
Westview High School - Beaverton School District

4200 NW 185th Ave, Portland, OR 97229

BID & PERMIT SET

02.18.21
REVISIONS

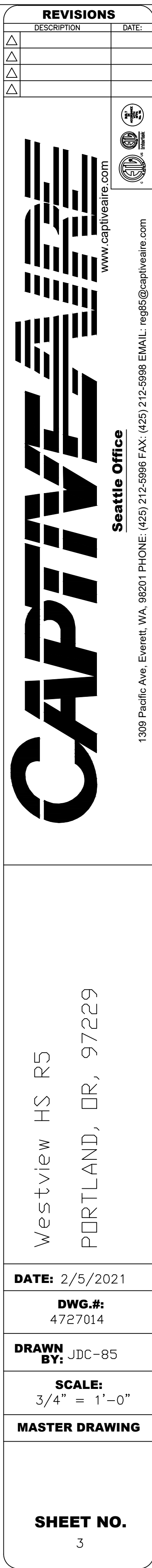
74-21106-00

FOOD SERVICE
CANOPY HOOD
DETAILS

FS2.1

4





FIRE SYSTEM INFORMATION - JOB#4727014

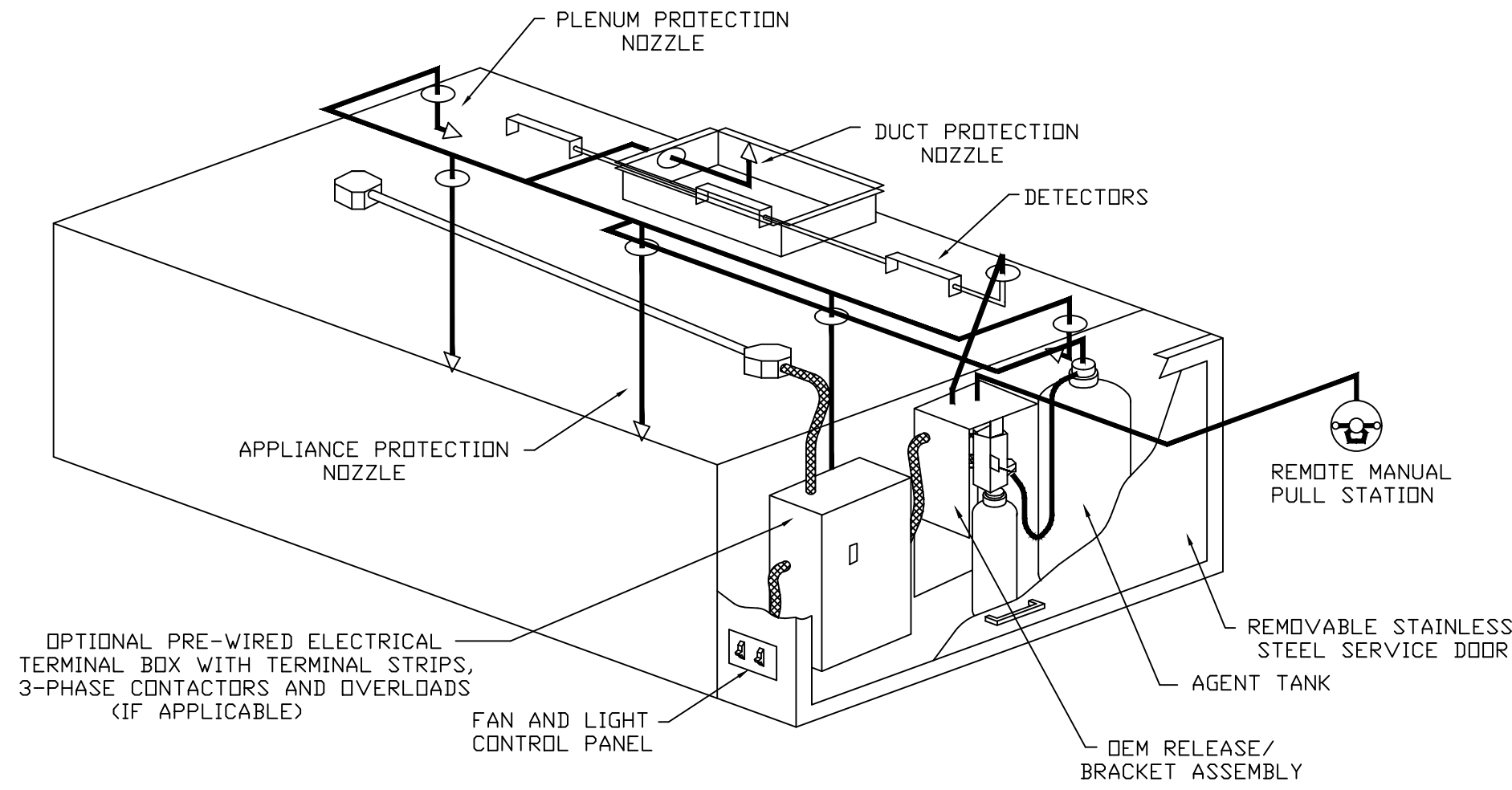
FIRE SYSTEM NO	TAG	TYPE	SIZE	FLOW POINTS	INSTALLATION	
					SYSTEM	LOCATION ON HOOD
1	FS 35/36	ANSUL R102	3.0/3.0	6	FIRE CABINET RIGHT	RIGHT, HOOD 2
2	FS 32/33	ANSUL R102	3.0/3.0	6	FIRE CABINET LEFT	LEFT, HOOD 4
3	FS 21 15	ANSUL R102	3.0/3.0	4	FIRE CABINET RIGHT	RIGHT, HOOD 5

GAS VALVE(S)	
FIRE	

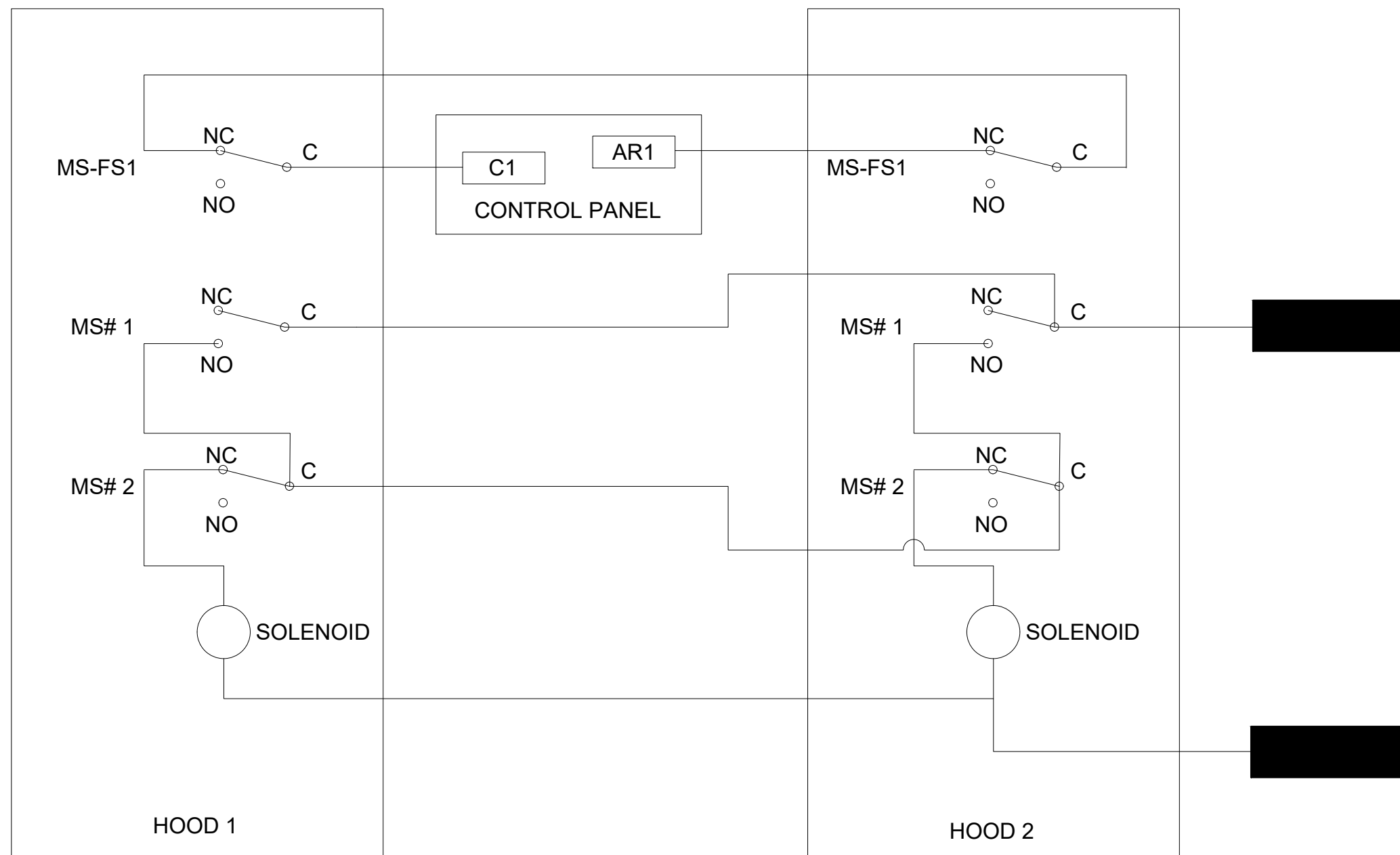
FIRE SYSTEM NO	TAG	TYPE	SIZE	SUPPLIED BY
1	FS 35/36	SC ELECTRICAL	2,000	CAPTIVEAIRE SYSTEMS
2	FS 32/33	SC ELECTRICAL	2,000	CAPTIVEAIRE SYSTEMS
3	FS 21 15	SC ELECTRICAL	2,000	CAPTIVEAIRE SYSTEMS

FIRE SYSTEM PARTS LIST KEY		
FIRE		

FIRE SYSTEM NO	TAG	KEY NUMBER - PART DESCRIPTION	QTY BY FACTORY	QTY BY DIST
1	FS 35/36	0 - 0 - DISC UNION BURSTING DISC UNION ASSEMBLY FOR MANIFOLD SYSTEM.	1	0
		0 - 0 - TANK STRAP TANK STRAP - USED FOR ANSUL TANKS.	2	0
		0 - 0 - UCTANKBRACKET TANK BRACKET FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS.	2	0
		1 - 1 - AT - 3.0 TANK(H1B) - 3.0 GALLON SS TANK (FOR USE WITH AUTOMAN RELEASE, ACTUATOR, DR SS ENCLOSURE (UL/ULC)) MACOLA # 01-429862.	2	0
		3 - 3 - ANS-ELEC-AUTOMAN-SS-120 REGULATED RELEASE - ANSUL REGULATED 120V ELECTRICAL RELEASE/BACKET ASSEMBLY, R-102, SS BOX, CARTRIDGE DETECTION, ANSUL PART # 429856.	1	0
		5 - 5 - LIQ-3.0 AGENT - ANSULEX LOW PH WET CHEMICAL AGENT, 3 GALLON (UL) 79372.	2	0
		9 - 9 - DT-CART DOUBLE TANK NITROGEN CARTRIDGE.	1	0
		10 - 10 - TLINK LINK - TEST LINK (1 TEST LINK) ANSUL PART # 24916, MACOLA # 20-24916.	1	0
		11 - 11 - MICRO-SDA MICROSWITCH KIT- INCLUDES 2 SWITCHES AND MOUNTING HARDWARE. SINGLE DUAL ELECTRICAL SWITCH, ONE STANDARD SWITCH, ONE ALARM DUTY SWITCH ANSUL PART # 437155, MACOLA # 08-437155.	1	0
		12 - 12 - HOSE HOSE - RUBBER HOSE.	1	0
		27 - 27 - QPSA-1/2 PULLEY SEAL - 1/2" HOOD SEAL (UL) ANSUL PART # 423253, MACOLA # 32-79768.	1	0
		34 - 34 - RPS-A REMOTE PULL STATION - RED COMPOSITE (WITHOUT WIRE ROPE) 434618 (OLD MACOLA #06-4835).	1	0
		35 - 35 - PE-LT PULLEY ELBOW - LOW TEMP. PULLEY ELBOW, SET SCREW TYPE ANSUL PART # 415670, MACOLA # 11-415671.	2	0
		36 - 36 - PE-HT PULLEY ELBOW - HIGH TEMP PULLEY ELBOW, COMPRESSION TYPE, ANSUL PART # 423251, MACOLA # 10-45771.	1	0
2	FS 32/33	0 - 0 - DISC UNION BURSTING DISC UNION ASSEMBLY FOR MANIFOLD SYSTEM.	1	0
		0 - 0 - TANK STRAP TANK STRAP - USED FOR ANSUL TANKS.	2	0
		0 - 0 - UCTANKBRACKET TANK BRACKET FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS.	2	0
		1 - 1 - AT - 3.0 TANK(H1B) - 3.0 GALLON SS TANK (FOR USE WITH AUTOMAN RELEASE, ACTUATOR, DR SS ENCLOSURE (UL/ULC)) MACOLA # 01-429862.	2	0
		3 - 3 - ANS-ELEC-AUTOMAN-SS-120 REGULATED RELEASE - ANSUL REGULATED 120V ELECTRICAL RELEASE/BACKET ASSEMBLY, R-102, SS BOX, CARTRIDGE DETECTION, ANSUL PART # 429856.	1	0
		5 - 5 - LIQ-3.0 AGENT - ANSULEX LOW PH WET CHEMICAL AGENT, 3 GALLON (UL) 79372.	2	0
		9 - 9 - DT-CART DOUBLE TANK NITROGEN CARTRIDGE.	1	0
		10 - 10 - TLINK LINK - TEST LINK (1 TEST LINK) ANSUL PART # 24916, MACOLA # 20-24916.	1	0
		11 - 11 - MICRO-SDA MICROSWITCH KIT- INCLUDES 2 SWITCHES AND MOUNTING HARDWARE. SINGLE DUAL ELECTRIC SWITCH, ONE STANDARD SWITCH, ONE ALARM DUTY SWITCH ANSUL PART # 437155, MACOLA # 08-437155.	1	0
		12 - 12 - HOSE HOSE - RUBBER HOSE.	1	0
		27 - 27 - QPSA-1/2 PULLEY SEAL - 1/2" HOOD SEAL (UL) ANSUL PART # 423253, MACOLA # 32-79768.	1	0
		34 - 34 - RPS-A REMOTE PULL STATION - RED COMPOSITE (WITHOUT WIRE ROPE) 434618 (OLD MACOLA #06-4835).	1	0
		35 - 35 - PE-LT PULLEY ELBOW - LOW TEMP. PULLEY ELBOW, SET SCREW TYPE ANSUL PART # 415670, MACOLA # 11-415671.	2	0
		36 - 36 - PE-HT PULLEY ELBOW - HIGH TEMP PULLEY ELBOW, COMPRESSION TYPE, ANSUL PART # 423251, MACOLA # 10-45771.	1	0
3	FS 21 15	0 - 0 - DISC UNION BURSTING DISC UNION ASSEMBLY FOR MANIFOLD SYSTEM.	1	0
		0 - 0 - TANK STRAP TANK STRAP - USED FOR ANSUL TANKS.	2	0
		0 - 0 - UCTANKBRACKET TANK BRACKET FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS.	2	0
		1 - 1 - AT - 3.0 TANK(H1B) - 3.0 GALLON SS TANK (FOR USE WITH AUTOMAN RELEASE, ACTUATOR, DR SS ENCLOSURE (UL/ULC)) MACOLA # 01-429862.	2	0
		3 - 3 - ANS-DEM REGULATED RELEASE - ANSUL REGULATED MECHANICAL RELEASE/BACKET ASSEMBLY, DEM, R-102, CARTRIDGE DETECTION INCLUDED, ANSUL PART # 79493.	1	0
		5 - 5 - LIQ-3.0 AGENT - ANSULEX LOW PH WET CHEMICAL AGENT, 3 GALLON (UL) 79372.	0	2
		9 - 9 - DT-CART DOUBLE TANK NITROGEN CARTRIDGE.	0	1
		10 - 10 - TLINK LINK - TEST LINK (1 TEST LINK) ANSUL PART # 24916, MACOLA # 20-24916.	0	1
		11 - 11 - MICRO-SDA MICROSWITCH KIT- INCLUDES 2 SWITCHES AND MOUNTING HARDWARE. SINGLE DUAL ELECTRICAL SWITCH, ONE STANDARD SWITCH, ONE ALARM DUTY SWITCH ANSUL PART # 437155, MACOLA # 08-437155.	1	0
		12 - 12 - HOSE HOSE - RUBBER HOSE.	1	0
		27 - 27 - QPSA-1/2 PULLEY SEAL - 1/2" HOOD SEAL (UL) ANSUL PART # 423253, MACOLA # 32-79768.	5	0
		34 - 34 - RPS-A REMOTE PULL STATION - RED COMPOSITE (WITHOUT WIRE ROPE) 434618 (OLD MACOLA #06-4835).	1	0
		35 - 35 - PE-LT PULLEY ELBOW - LOW TEMP. PULLEY ELBOW, SET SCREW TYPE ANSUL PART # 415670, MACOLA # 11-415671.	5	0
		36 - 36 - PE-HT PULLEY ELBOW - HIGH TEMP PULLEY ELBOW, COMPRESSION TYPE, ANSUL PART # 423251, MACOLA # 10-45771.	4	0
		ADDITIONAL PARTS TO BE DETERMINED...		



TYPICAL ANSUL R-102 SYSTEM LAYOUT



REVISIONS	
DESCRIPTION	DATE:
△	
△	
△	
△	
△	
△	

Westview HS R5
PORTLAND, OR, 97229



Capitive
Engineering

Seattle Office

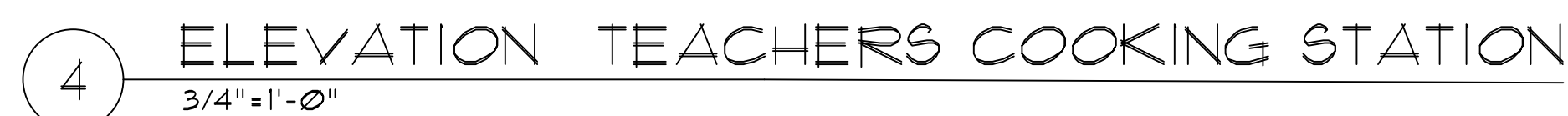
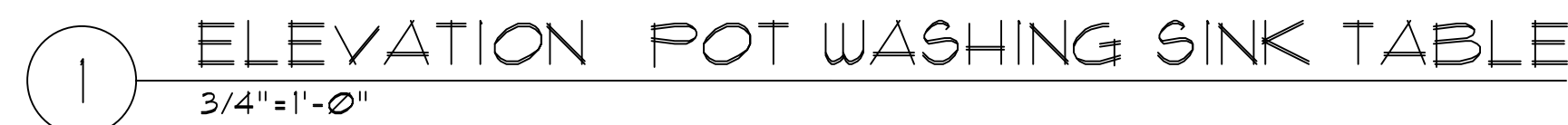
1309 Pacific Ave. Everett, WA, 98201 PHONE: (425) 212-5996 FAX: (425) 212-5998 EMAIL: reg85@capitiveaire.com

www.capitiveaire.com

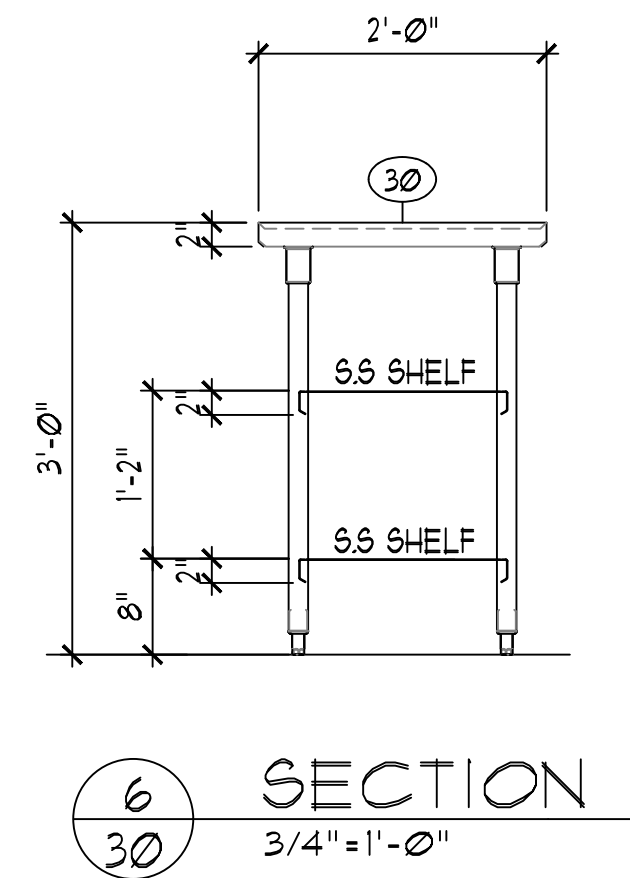
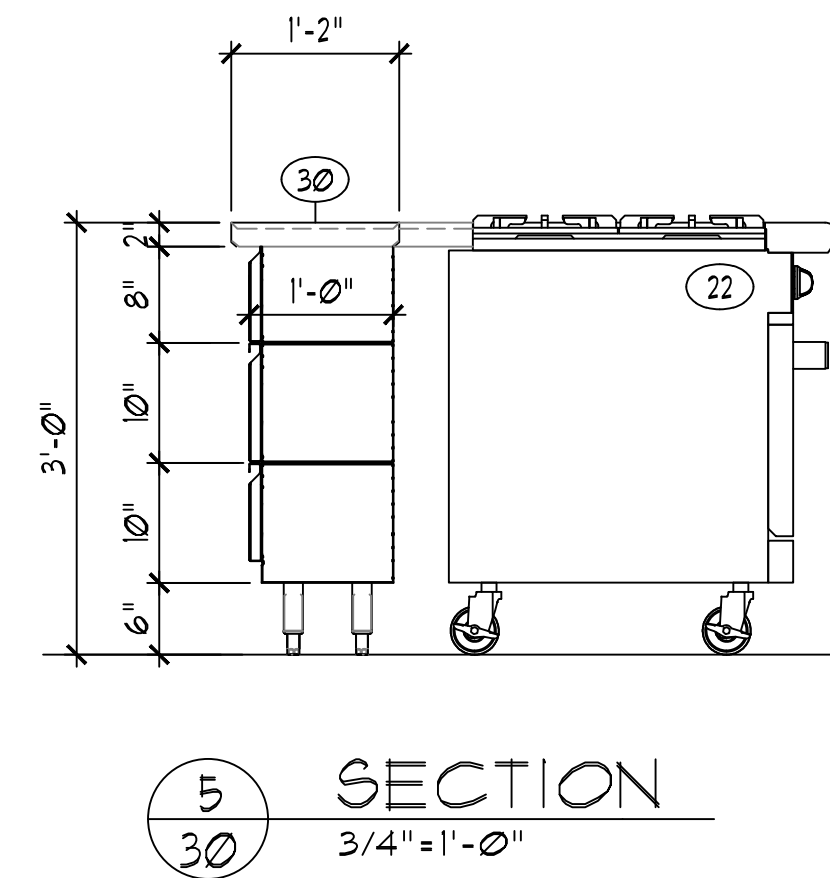
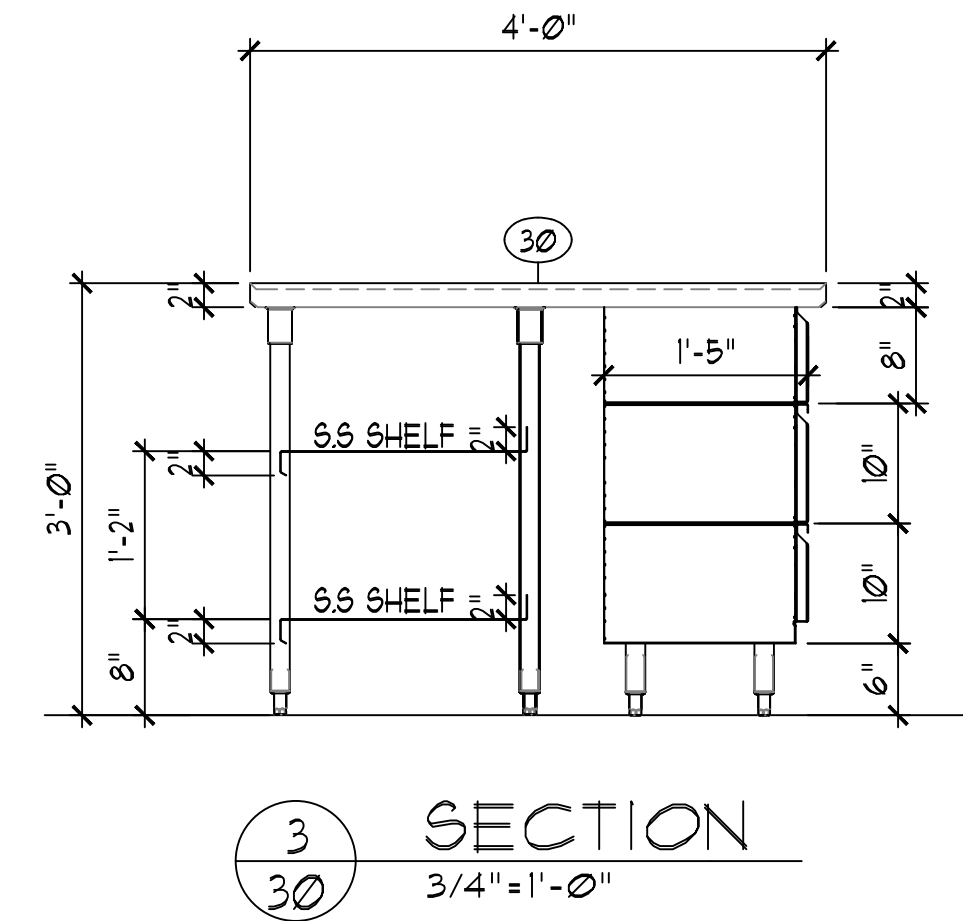
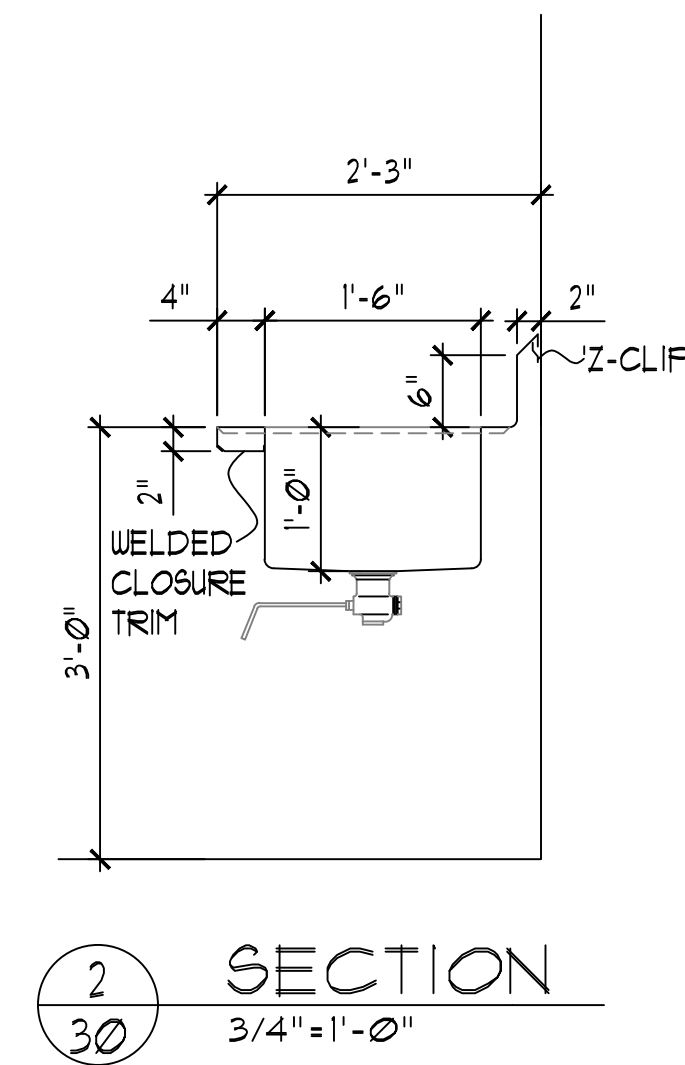
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MASTER DRAWING
SHEET NO. 5

FS2.6

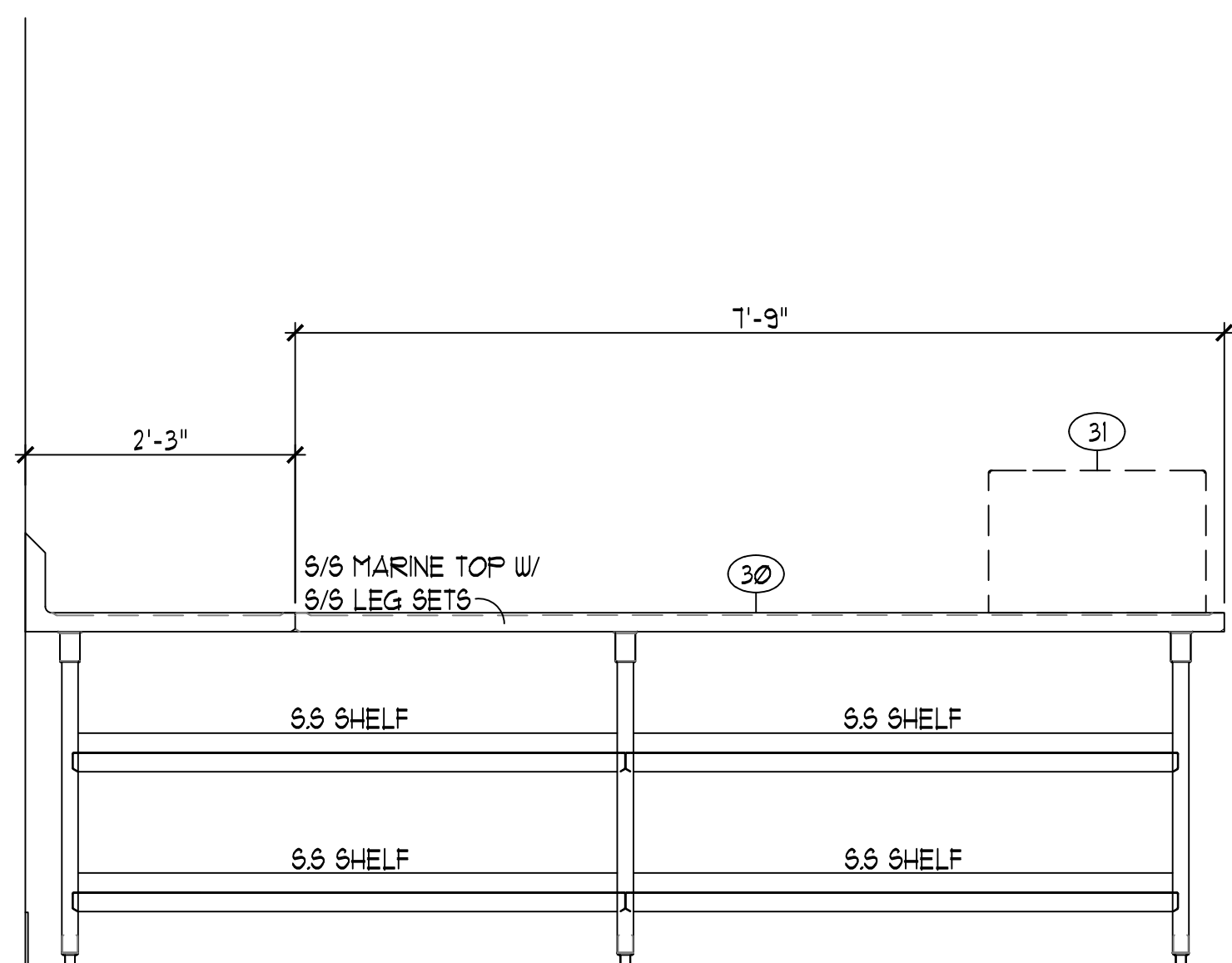
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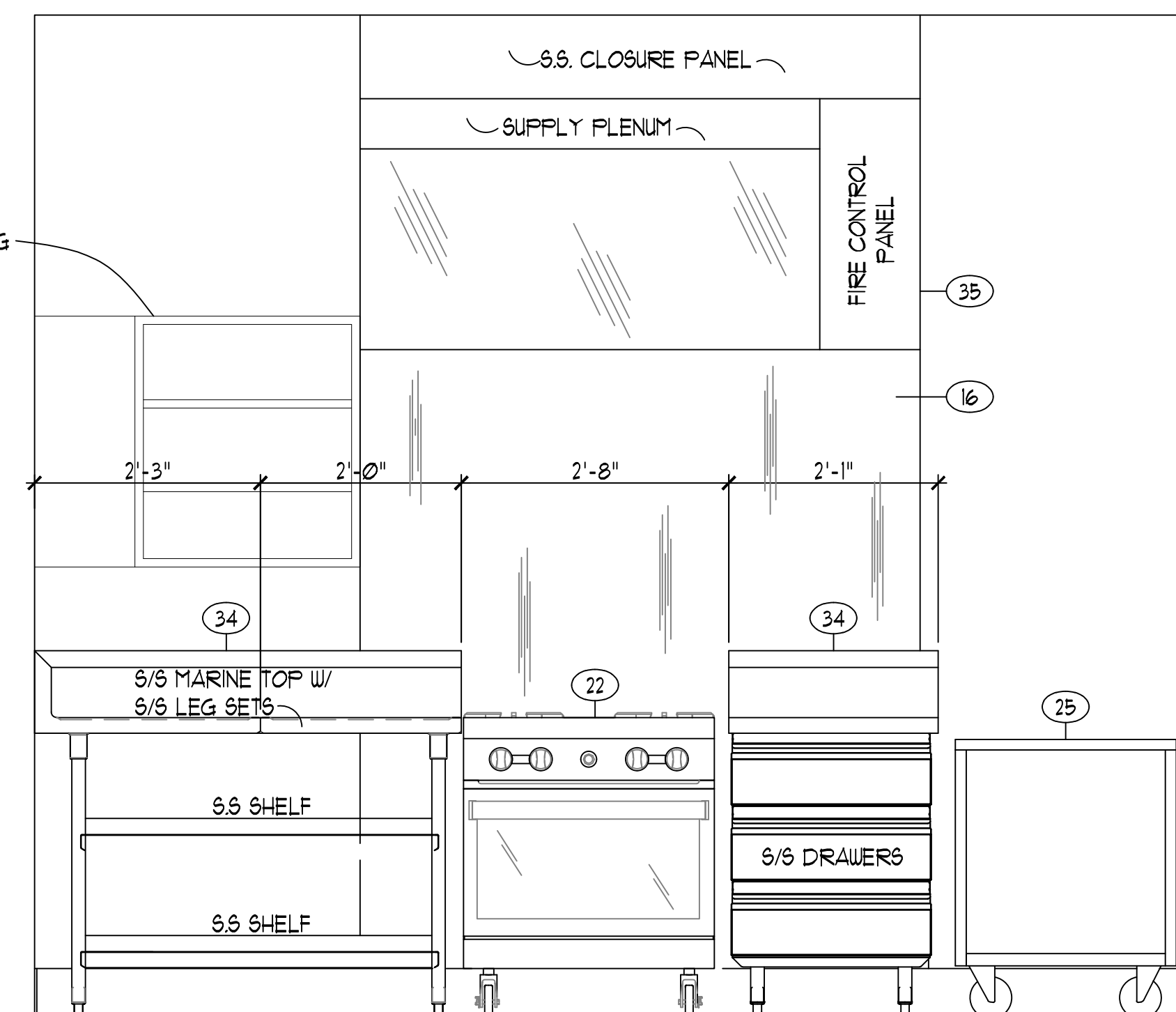
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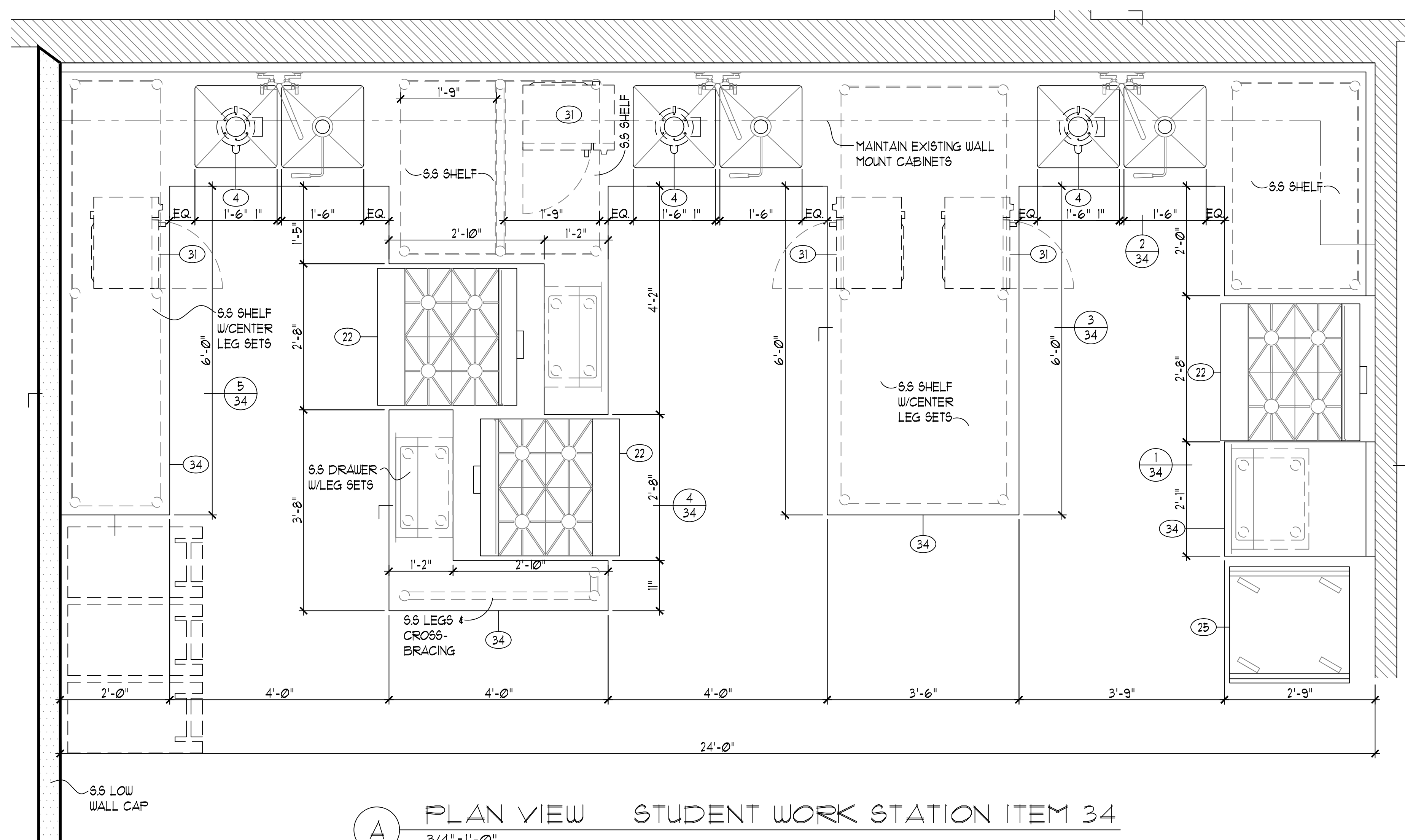
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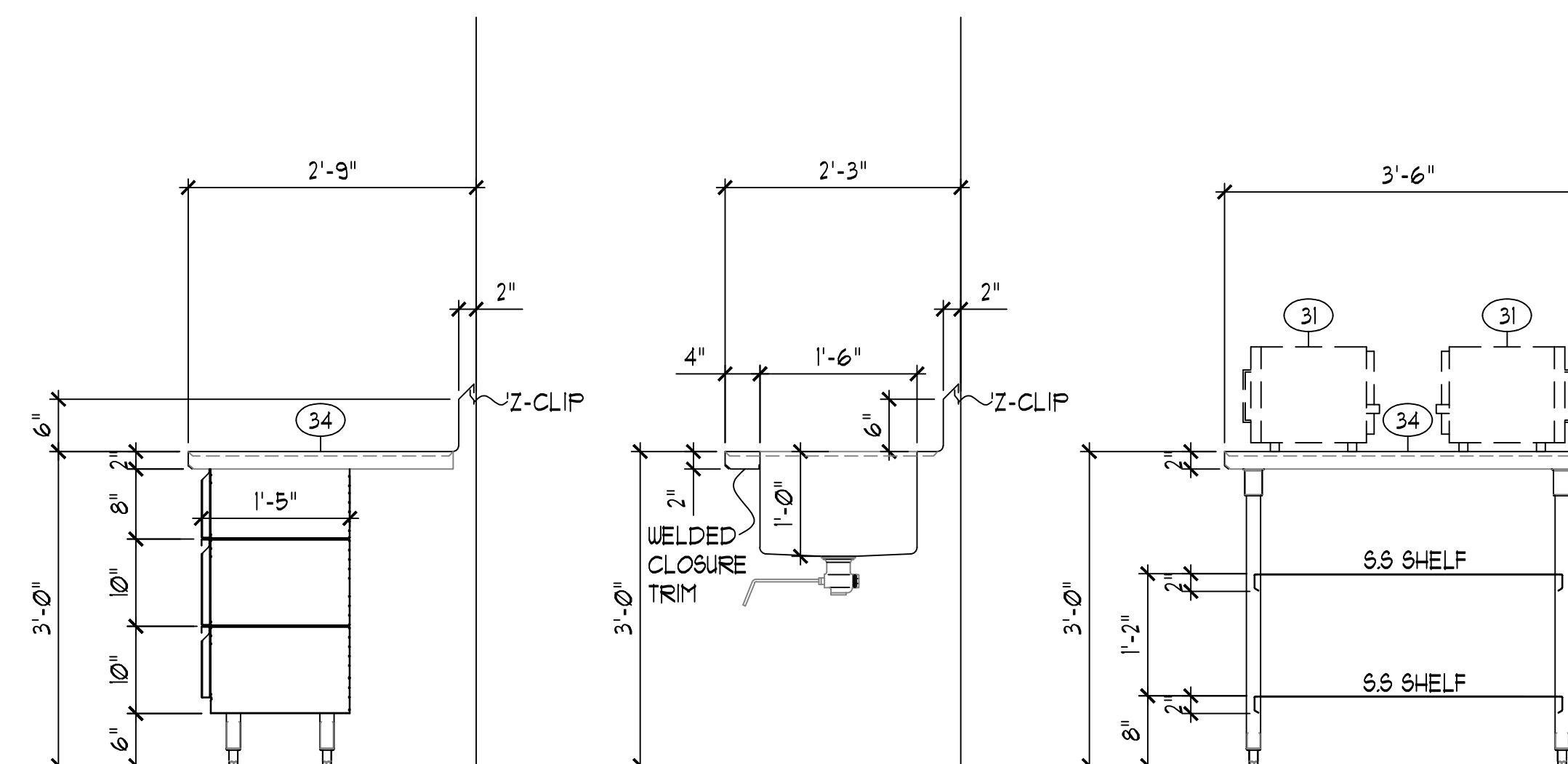
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STUDENT WORK STATION COUNTER
 $3/4" = 1' - 0"$



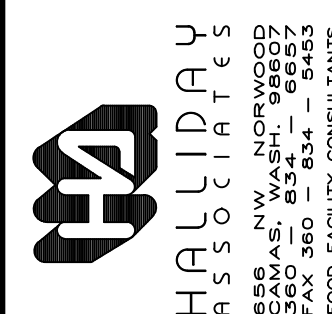
13 ELEVATION
STUDENT WORK STATION COUNTER
 $3/4" = 1' - 0"$



PLAN VIEW



SECTION
3/4" = 1' - 0"

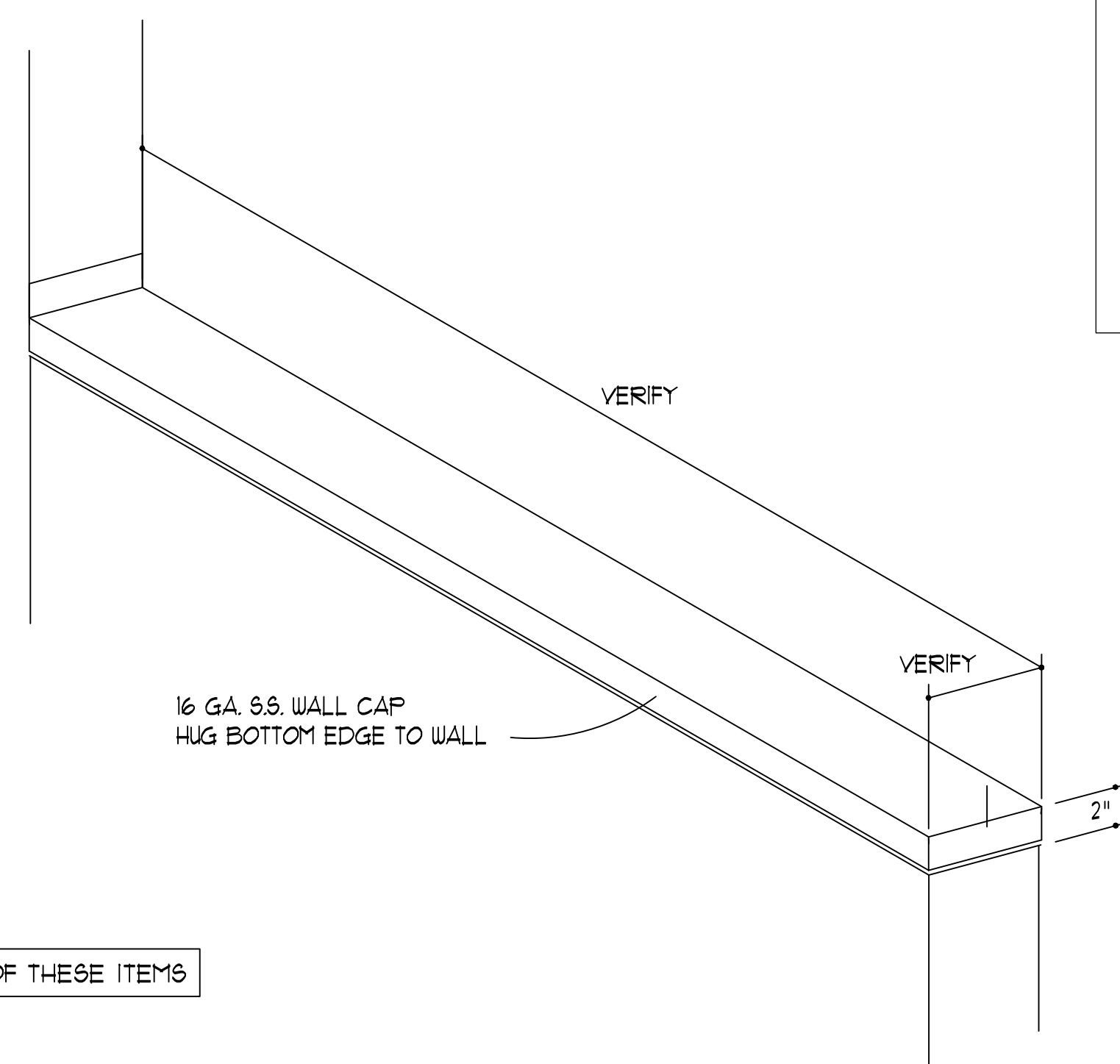


1200 NW 185th Ave. Portland, OR 97229

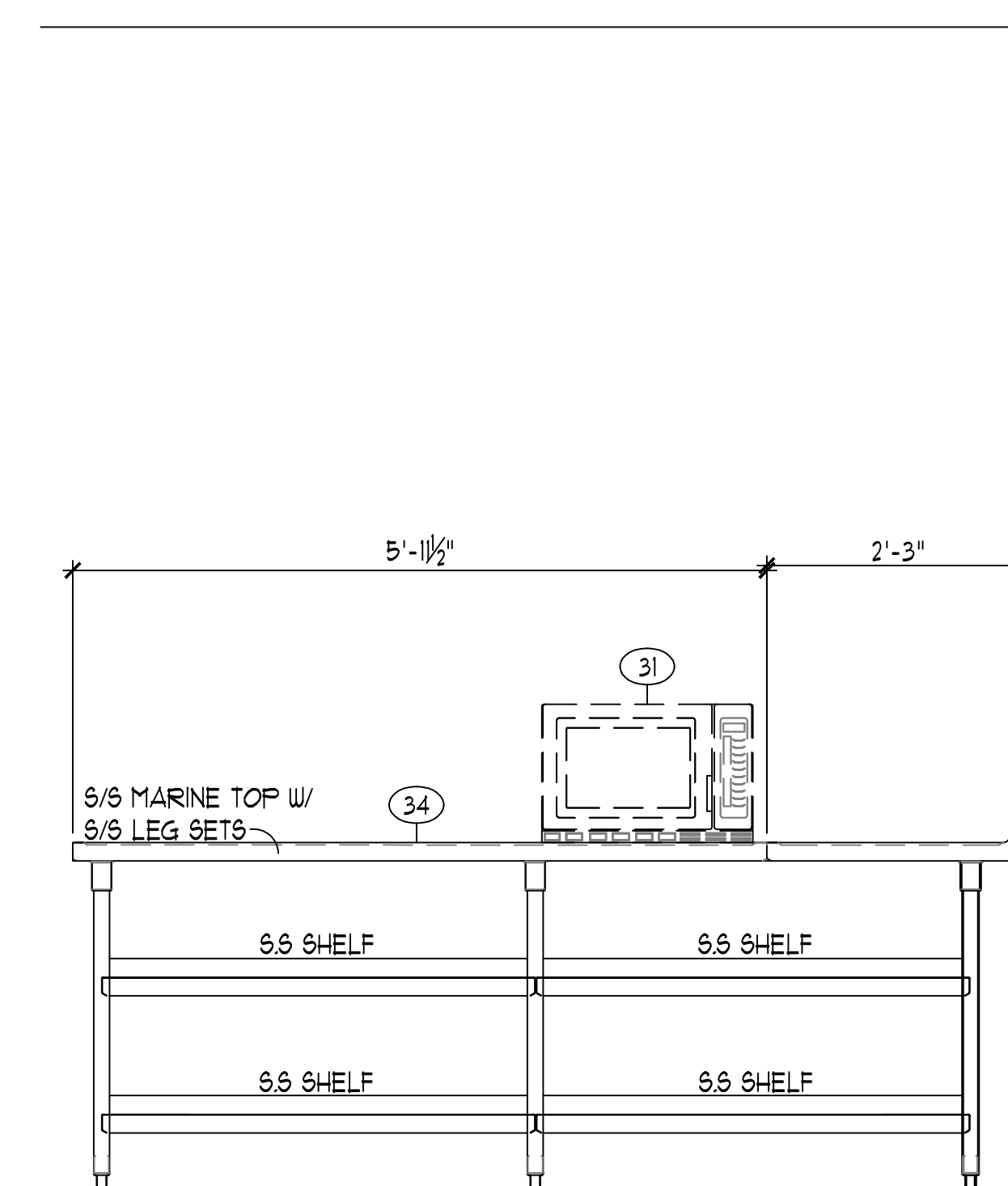
74-21106-00

FS3.4

4



(C) ISOMETRIC / WALL CAP
3/4" = 1" - Ø"



15 ELEVATION
STUDENT WORK STATION COUNTER
 $\frac{3}{4}" = 1' - 0"$



A

B

C

D

E

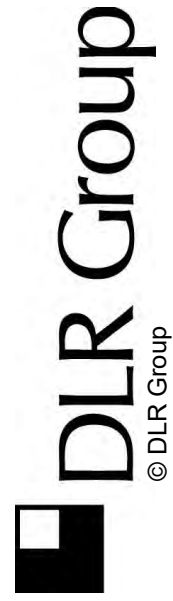
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2

3

4

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CULINARY CLASSROOM
Westview High School - Beaverton School District
4200 NW 185th Ave, Portland, OR 97229

BID & PERMIT SET
02.18.21
REVISIONS

74-21106-00
SITE PLAN

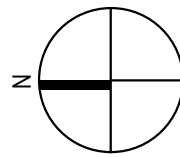
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SITE PLAN ELEMENTS

SITE ADDRESS: 4200 NW 185TH AVE. PORTLAND OR, 97229
TAX LOT NUMBER: 1N1190002300
PROPERTY ACCOUNT ID: R591666
SITE AREA SIZE: LOT SIZE: 44.96 ACRES
ZONING DESIGNATION: R-5
GENERAL SETBACKS:
FRONT 15
SIDE 5
REAR 15
SIDE STREET 10
LATITUDE / LONGITUDE: 45.5499299 / 122.864853
SANITATION: CLEAN WATER SERVICES (CWS)
WATER: TUALATIN VALLEY WATER (TVW)
FIRE: TUALATIN VALLEY FIRE & RESCUE (TVFR)

**NOTE: THIS PROJECT INCLUDES NO SITE WORK
AND VERY LIMITED EXTERIOR WORK, CONSISTING OF NEW
ROOFTOP MECHANICAL UNIT AND TWO ROOFTOP EXHAUST
FANS ONLY.**

- EXISTING CURBS, SIDEWALKS, PLANTER STRIPS AND STORM DRAINS TO REMAIN.
- EXISTING STREET TREES TO REMAIN.
- EXISTING EASEMENTS TO REMAIN.
- EXISTING BUILDING FOOTPRINT AND EXTERIOR TO REMAIN.
- EXISTING RETAINING WALLS AND FENCES TO REMAIN.
- EXISTING FIRE TRUCK ACCESS LANES TO REMAIN
- EXISTING FIRE HYDRANTS TO REMAIN
- EXISTING EXTERIOR EGRESS PATHS TO REMAIN



SITE PLAN
SCALE: 1" = 160'-0"

