



2619 EVARTS ST, NE
WASHINGTON, DC 20018

DIRECTORY

CLIENT
SCRATCH DC
 2619 EVARTS ST, NE
 WASHINGTON, DC 20018
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 E: RYAN@SCRATCHDC.COM

ARCHITECT
STREETSENSE
1806 FLORIDA AVE NW
WASHINGTON, DC 20009
ATTN: LAUREN WINTER
P: (202) 413-4044
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MEP ENGINEER

CONTRACTOR

SCOPE OF WORK

ALTERATION TO INCLUDE:

ARCHITECTURAL
- NEW PARTITIONS, LIGHTING, FOOD
PREPARATION AREA, OFFICE, AND RESTROOMS

MECHANICAL, PLUMBING AND ELECTRICAL
- NEW HVAC, KITCHEN EQUIPMENT, UTILITIES,
GREASE TRAP INTERCEPTOR, AND ELECTRICAL
WIRING

LOCAL CONTACTS

GAS UTILITY COMPANY
WASHINGTON GAS
www.washgas.com
PH: (703) 750-1000

ELECTRICAL UTILITY COMPANY
PEPCO
www.pepco.com
PH: (877) 737-2662

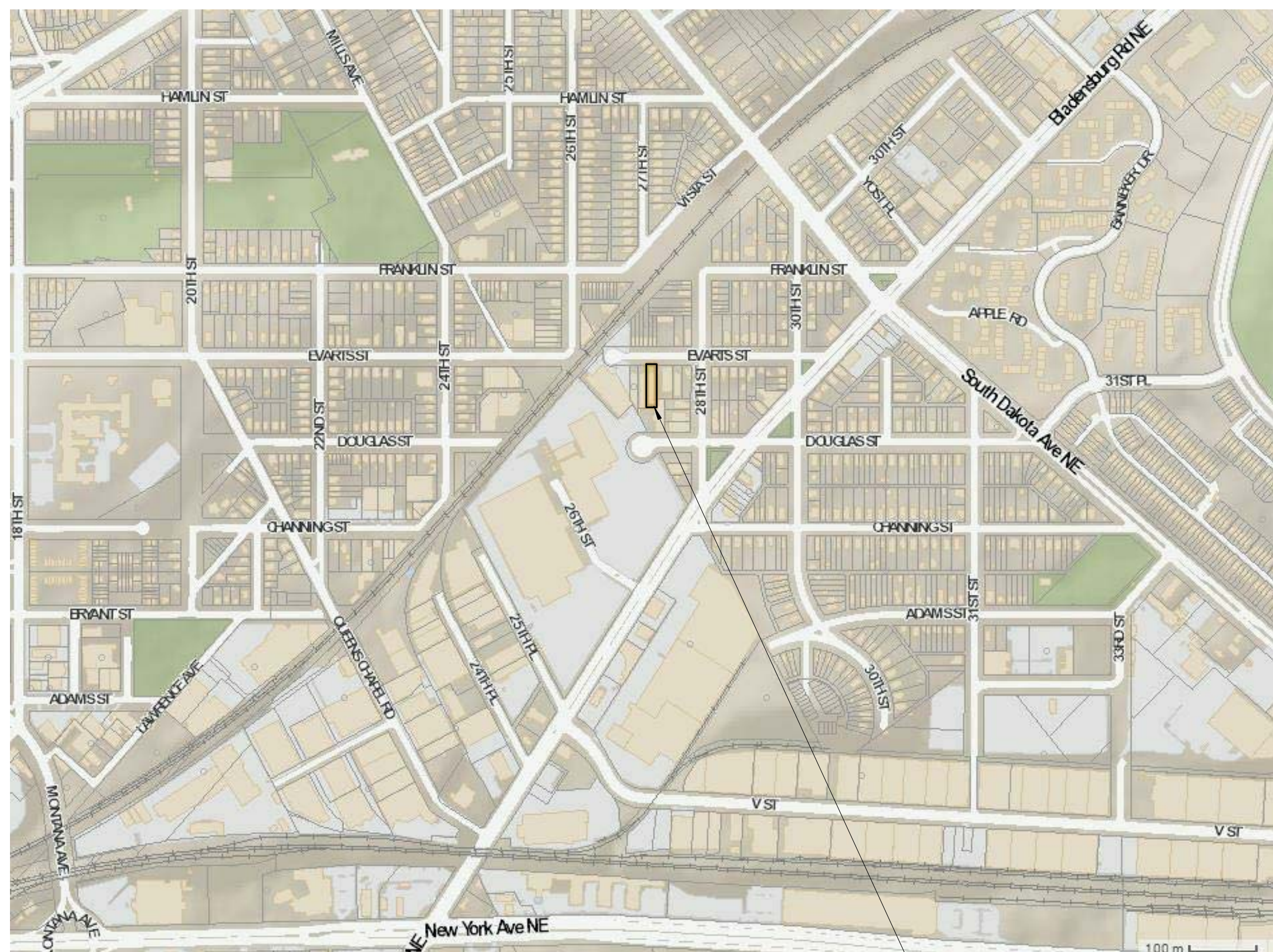
WATER DEPARTMENT/DISTRICT
DC WATER
www.dcwater.com
PH: (202) 354-3600

BUILDING DEPARTMENT
DCRA
1100 4TH STREET, SW
WASHINGTON, DC 20024
www.dcra.dc.gov
PH: (202) 442-4400

FIRE DEPARTMENT
DC FIRE AND EMS
OFFICE OF THE FIRE MARSHAL
1923 VERMONT AVE, NW
WASHINGTON, DC 20001
PH: (202) 673-3320

MISS UTILITY
(800) 552-7001

SITE PLAN



SITE
SQUARE: 4348
LOT: 004
ZONED C-M-1

BUILDING AND TENANT INFORMATION

SCOPE OF WORK	ALTERATION OF AN EXISTING COLD, DARK SHELL FOR A FACTORY TENANT. NO CHANGE OF USE.		
	EXISTING BUILDING	EXISTING SPACE	PROPOSED ALTERATION
JURISDICTION	WASHINGTON, DC - DCRA		
CODE	N/A	2006 NEC (DCMR 12C); 2006 IBC/IDCMR 12A); 2006 IECC/IDCMR 12D); 2006 IFPC (DCMR 12H); 2006 IFGC/IDCMR 12D); 2006 IMC/IDCMR 12E); 2006 IFCD/IDCMR 12F); 2006 IEBC/IDCMR 12J); DC LAW 9-38 DISTRICT OF COLUMBIA ENVIRONMENTAL POLICY ACT OF 1989; DCMR TITLE 11 - ZONING REGULATIONS; DCMR 13 ELECTRICAL AND MECHANICAL; ICC/ANSI A117.1-2003 (DCMR 12A 2008); 2008 DC CONSTRUCTION CODES	
OCCUPANCY CLASSIFICATION (IBC)	FACTORY (F)	FACTORY (F)	FACTORY (F1)
TYPE OF CONSTRUCTION	IIB	IIB	IIB
SEPARATED MIXED-USE (IBC/NFPA)	N/A	N/A	N/A
FLOOR AREA	7500 SF	5860 SF	5860 SF
HIGH RISE	NO	NO	NO
COVERED MALL	NO	NO	NO
NUMBER OF STORIES	1 +PARTIAL 2ND FLOOR	1	1
FULLY SPRINKLERED & MONITORED	NO	NO	NO
FIRE ALARM SYSTEM	-	-	-

DRAWING INDEX

[illegible]

streetsense.

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Bethesda, Maryland 20814
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Capitol Engineering Group, LLC
1825 K Street NW
Suite 375
Washington, DC 20006
Phone: 202-216-0039
Fax: 202-216-0067

NOTES

PROFESSIONAL SEAL

Professional Certification:
I hereby certify that these documents were prepared or
approved by me, and that I am a duly licensed professional
architect under the laws of the District of Columbia.

License No: ARC5942 Exp. Date: 04/30/2014

SUBMITTALS

#	Description	Date
	ISSUE FOR PERMIT	02/24/2014

SCRATCH DC
2619 EVARTS ST., NE
WASHINGTON, DC 20018

COVER SHEET

A000

Project #	13-269	Date	FEB 24, 2014
Managed By	IW	Drawn By	MP

Scale

ABBREVIATIONS									
A/E	ARCHITECT/ENGINEER	E	EAST	MAX	MAXIMUM	QC	QUALITY CONTROL		
ACT	ACOUSTICAL CEILING TILE	EL	ELEVATION	MOD	MEDIUM DENSITY	QTY	QUANTITY		
ADA	AMERICANS WITH DISABILITIES	ELEC	ELECTRIC	MEP	FIBERBOARD				
ADMIN	ADMINISTRATION	EQ	EQUAL	MECH	MECHANICAL	R	RADIUS		
AFF	ABOVE FINISHED FLOOR	ETC	ET CETERA	MEP	MECHANICAL/ELECTRICAL & PLUMBING	REQ	REQUIRED		
ALT	ALTERNATE	EXIST	EXISTING	MGT	MANAGEMENT	REQ	REQUIRED		
ARCH	ARCHITECT	FF&E	FURNITURE, FIXTURE & EQUIPMENT	MIN	MINIMUM	RH	RIGHT HAND REVERSE		
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	FIN	FINISH	MISC	MISCELLANEOUS	RH	RIGHT HAND REVERSE		
	ARCHITECTURAL	FR	FLOORING	MSTR	MITRE	RM	ROOM		
	WOODWORKING INSTITUTE	FIXT	FIXTURE	MTD	MOUNTED				
		FLG	FLOORING	MULL	MULLION				
BKGD	BACKGROUND	FLR	FLOOR	NA	NOT APPLICABLE	S	SOUTH		
BLKHD	BULKHEAD	FRG	FURRING	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION	SECT	SECTION		
		FT	FEET	NTS	NOT IN CONTRACT	SS	STAINLESS		
CAB	CABINET	FURN	FURNITURE	NIC	NOT IN CONTRACT	SUP	SUPPLEMENTARY		
CLG	CEILING	GEN	GENERAL	NO	NUMBER	TEMP	TEMPORARY		
CLG HT	CEILING HEIGHT	GYP	GYPSUM BOARD	NTS	NOT TO SCALE	THK	THICK		
CL	CENTER LINE			OF/CI	OWNER FURNISHED CONTRACTOR INSTALLED	THRES	THRESHOLD		
CMU	CONCRETE MASONRY UNIT	HC	HOLLOW CORE	OFF	OFFICE	THRU	THROUGH		
CO	CERTIFICATE OF OCCUPANCY	HDW	HARDWARE	OPP	OWNER FURNISHED	TOPO	TOPOGRAPHY		
COL	COLUMN	HR	HORIZONTAL	OPN	OWNER INSTALLED	TYP	TYPICAL		
CONC	CONCRETE	HT	HEIGHT	OPSH	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION	UC	UNDERCUT		
CONSTR	CONSTRUCTION	IB	INTERNATIONAL BUILDING CODE			UL	UNDERWRITERS LABORATORIES		
CONSULT	CONSULTANT	ID NO	IDENTIFICATION NUMBER	PERF	PERFORATED	UNO	UNLESS NOTED OTHERWISE		
COORD	COORDINATE	INFO	INFORMATION	PERM	PERIMETER	VCT	VINYL COMPOSITION TILE		
CORR	CORRIDOR	KIT	KITCHEN	PERP	PERPENDICULAR	VERT	VERTICAL		
CW	CLOCKWISE	LAV	LAVATORY	PLAM	PLASTIC LAMINATE	VEST	VESTIBULE		
		LF	LINEAL FOOT (FEET)	PLYWD	PLYWOOD	VIF	VERIFY IN FIELD		
DBL	DOUBLE	LHR	LEFT HAND REVERSE	PREFAB	PREFABRICATE	W	WEST		
DEV	DEVELOPMENT	LIB	LIBRARY	PREP	PREPARATION	W	WITH		
DEMO	DEMOLITION	LOC	LOCATION	PROJ	PROJECT	WO	WITHOUT		
DET	DETAIL			PTN	PARTITION	WD	WOOD		
DIAG	DIAGONAL					WDW	WINDOW		
DOC	DOCUMENT								
DR	DOOR								
DSGN	DESIGN								
DWG	DRAWING								

ANNOTATION SYMBOLS		
DRAWING TITLE 	DETAIL SYMBOL 	REVISION CLOUD AND NUMBER
SECTION SYMBOL 	ELEVATION SYMBOL 	NORTH ARROW
DOOR NUMBER 	NEW DOOR 	EXISTING DOOR
ROOM NAME 	PARTITION TYPE 	CEILING HEIGHT ELEVATION INDICATOR
FINISH TAG 	WINDOW SYMBOL 	ITEM TAG
STRUCTURAL GRID 	BREAK LINE 	LIGHTING TAG
PLAN NOTE 	CENTERLINE 	ALIGN WITH ESTABLISHES ELEMENT

RESPONSIBILITY SCHEDULE					
ITEM	PROVIDED BY OWNER	GC	LL	INSTALLED BY OWNER	GC
CHAIRS	X			X	
TABLE BASES	X			X	
TABLE TOPS	X			X	
SPECIAL FURNITURE	X			X	
FEATURE BANQUETTES	X			X	
WINDOW BANQUETTES	N/A			N/A	
DISPENSERS/HOLDER	X			X	

INTERIOR DESIGN ITEMS-ACCESSORIES					
WALL-MOUNTED SERRACHA SAUCE RACKS	X			X	
LOUVER BOX	X			X	
LOUVER BOX FABRIC PANELS	X			X	
SODA STATION	X			X	
GARBAGE CANS	X			X	
RESTROOM ACCESSORIES	X			X	

INTERIOR DESIGN ITEMS-WINDOWS					
WINDOW SHADES	N/A			N/A	
APPLIED TINTING OF WINDOWS	N/A			N/A	

INTERIOR DESIGN ITEMS-FLOORING					
OAK PLANK FLOORING	X			X	
QUARRY TILE FLOORING	X			X	
HEX TILE FLOORING	X			X	

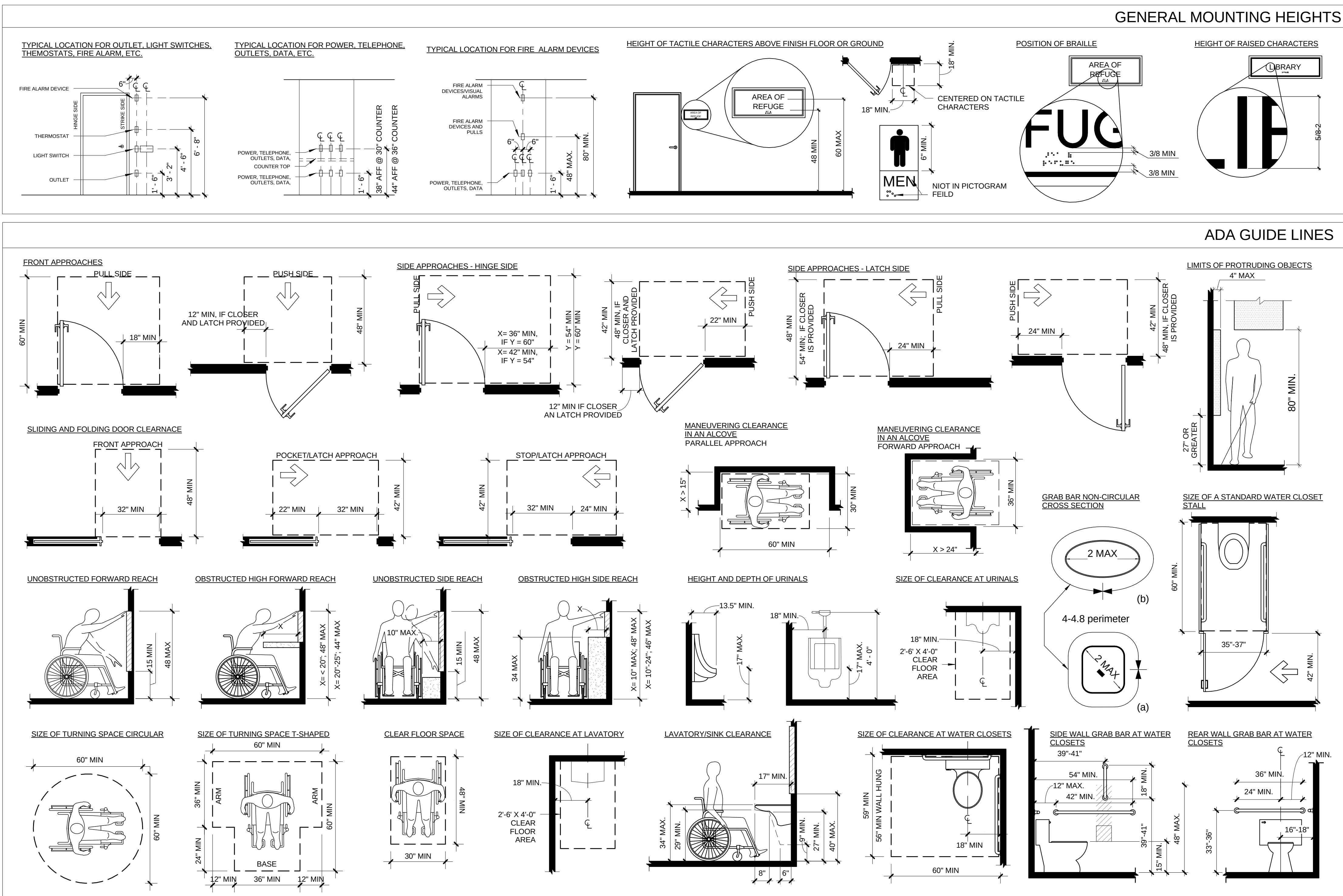
LIGHTING - INTERIOR					
AMBIENT LIGHTING	X			X	
PENDANT FIXTURES	X			X	

ELECTRICAL					
CT CABINET/METER/BREAKER	X			X	
SWITCHGEAR	X			X	
TRANSFORMER	X			X	
ELECTRIC CONTROL PANELS	X			X	
DIMMING PANEL	X			X	
DIMMING KEY PANEL	X			X	
DIMMING SWITCHES IN PRD'S	X			X	
SECURITY DEVICES	X			X	
CONDUIT FOR SECURITY DEVICES	X			X	
PHONE SERVICE AT LL'S DEMARC	X			X	
PHONE SERVICE FROM LL'S DEMARC	X			X	
CONDUIT FOR PHONE SYSTEM WITHIN PREMISE	X			X	
PATCH PANEL	X			X	
POINT OF SALE - DATA LINES	X			X	

MECHANICAL/PLUMBING					
HVAC & CURBS	X			X	
HVAC (SPLIT AIR TYPE)	X			X	
SENSORS, HUMIDISTATS & T-STATS	X			X	
MAKE-UP AIR & CURB	X			X	
UIC SIDE STAND SERVICE SINKS	X			X	
HOT WATER STORAGE TANK/BOLER	X			X	
RECIRCULATING PUMP	X			X	
LOUVERS	X			X	

AUDIOVISUAL SYSTEM					
SPEAKERS	X			X	
VOLUME CONTROL	X			X	
AUDIO HEAD	X			X	
WIRE	X			X	
CONDUIT TO DEVICES	X			X	
WIRING TO DEVICES	X			X	

SIGNS/AWWINGS					
STOREFRONT SIGNAGE LETTERING	X			X	
SIGNAGE TO TRANSFORMER WIRING	X			X	
POWER TO SIGNAGE TRANSFORMERS	X			X	



RESPONSIBILITY LEGEND					
OWNER	- SHOPHOUSE				
GC	- GENERAL CONTRACOR AND SUB-CONTRACTORS				
MWC	- MILLWORK CONTRACTOR				
VEN	- VENDOR (IT, SECURITY, AV, SODA, HOOD)				
KEC	- KITCHEN SUPPLIER AND INSTALLER				
RESPONSIBILITY NOTES					
1. UNLESS EXPLICITLY STATED IN THIS SCHEDULE, OR OTHER WISE NOTED IN THE DRAWINGS, ALL WORK SHOWN ON THESE CONSTRUCTION DOCUMENTS IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.					
2. THE GC SHALL VERIFY QUANTITIES REQUIRED AND NOTIFY THE CLIENT AT PROJECT START OF QUANTITIES AND DELIVERY DATES REQUIRED FOR ALL CLIENT PROVIDED ITEMS.					
3. GC IS RESPONSIBLE FOR CODINATING HIS WORK WITH WORK OF ALL OTHER TRADES. GC SHALL NOTIFY THESE CONTRACTORS TWO WEEKS PRIOR TO THE CLOSE-UP OF WALLS AND CEILINGS FOR THESE CONTRACTORS TO INSTALL GROUNDS OR PULLS WIRES, ETC.					
4. ALL MISC. STEEL INDICATED IS BY GC UNLESS OTHERWISE NOTED.					
5. GC TO PROTECT INSTALLED FLOORING, MILLWORK AND EQUIPMENT.					
6. ELECTRICAL CONTRACTOR TO ASSIST INSTALLATION OF ALL MILLWORK FIXTURES, KITCHEN EQUIPMENT REQUIRING HARD WIRING CONNECTION.					
7. LAMPS AND REPLACEMENT LAMPS FOR LIGHTING FIXTURES WILL BE FURNISHED AND INSTALL BY GC.					
8. GC IS TO ALLOW TWO (2) FULL DAYS FOR MISC. HANGING OF ITEMS FOR CLIENT FACILITIES, USUALLY AFTER TURNOVER @ SUBSTANTIAL COMPLETION.					
9. GC TO PROVIDE BLOCKING WHERE REQUIRED. COORD WITH ARCHITECT.					
10. GC TO VERIFY AVAILABILITY AND LEAD TIMES FOR ALL MATERIALS AND LIGHTING AT BEGINNING OF PROJECT AND SCHEDULE THE SUBMITTAL PROCESS, SAMPLES, AND INSTALLATION IN ORDER TO PREVENT ANY PROJECT DELAYS.					

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scratchDC

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NOTES

Professional Certification:
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional architect under the laws of the District of Columbia.
License No: ARC5942 Exp. Date: 04/30/2014

PROFESSIONAL SEAL

ISSUE FOR PERMIT

SCRATCH DC
2619 EVARTS ST., NE
WASHINGTON, DC 20018

SYMBOLS, ABBREV, AND NOTES

A001
Project # 13-269 Date FEB 24, 2014
Managed By LW Drawn By MP
Scale: As indicated

#	Description	Date
1	ISSUE FOR PERMIT	02/24/2014

GENERAL REQUIREMENTS

SECTION 01010 SUMMARY OF WORK
1.1 GENERAL
A. Unless otherwise noted, "The Owner" or "The Tenant" refers to the persons, organization and/or business entering into an agreement with the Contractor to execute the Work indicated in the Contract Documents. "The Landlord" refers to the person, organization and/or business that owns or is responsible for managing the property on which the Work is to be executed. The Contractor's responsibilities to each party is described in the specifications and documents below.
B. The "Work" includes Owner improvements to an existing "paid site" with new site work, exterior walls, roofs, partitions, finishes, HVAC, plumbing, electrical, fire protection systems, access control systems.
C. Owner-Furnished items include: furniture, office equipment, POS, telephone, audio/visual cabling and equipment.
D. Owner-Furnished / Contractor-Installed items as indicated in the drawings shall be received, protected, and installed as part of the contract.
E. Permits and Inspections
1. The Contractor is responsible for obtaining all necessary permits required to perform the Work.
2. The Contractor is responsible for inspections required for the jurisdiction in which the Work is performed. Verify with local regulatory agency exact number, type and schedule of inspections required for the Work prior to commencing with the work.
3. The Contractor shall provide the Owner with documentation and scheduling necessary for Occupancy Permit.
F. Contract Documents
1. The AIA "General Conditions of the Contract for Construction" AIA Document A201, 1997 edition, published by the American Institute of Architects, hereinafter referred to as "General Conditions", is hereby made part of the Contract Documents, the same as if bound herein.
2. The Contract Documents consist of the following:
a. Owner-Contractor Agreement ("The Contract")
b. General Conditions
c. Drawings as dated in agreement ("The Drawings")
d. Addenda
e. Modifications
3. The Contract Documents are instruments of service and shall remain the property of the Architect whether the project for which they are prepared is executed or not. The Contract Documents are not to be used by the Owner, Landlord or Tenant for other projects or extensions to the project nor are they to be modified in any manner whatsoever except by agreement in writing and with appropriate compensation to the Architect.

SECTION 01030 ALTERNATES AND UNIT PRICES
1.1 GENERAL
A. The Contractor shall provide pricing for all alternates indicated in the bid form.
B. The Contractor shall provide Unit Pricing for items identified as requested by owner.
C. The Owner reserves the right to reduce or increase the total Scope of Work by accepting any of the Alternates or added/deleted Unit Price items.

SECTION 01035 SUBSTITUTIONS
1.1 GENERAL
A. The Contractor's bid shall be based on providing all specified items. Substitutions shall be considered only under the following circumstances:
1. The item is shown to have a prohibitively long lead time.
2. An item of equal appearance and equal or greater quality to the specified item can be provided at substantial savings to the Owner.
B. Substitutions shall be considered by the Architect for acceptance under the following procedure:
1. The Architect requires seven (5) days for review of the Contractor's request for substitution.
2. The Contractor's request for substitution shall include product information and samples as deemed necessary by the Architect of both the specified item and proposed substitution. Characteristics of both products shall be clearly identified for the Architect's evaluation.

SECTION 01400 COORDINATION
1.1 GENERAL COORDINATION
A. Coordination with Base Building and other Building Tenants:
1. Exercise extreme care and precaution during construction of the Work. Schedule Work to minimize disturbances to adjacent spaces and/or structures and their occupants, property, public thoroughfares, etc. The Contractor shall take precautions and be responsible for the safety of building occupants from construction procedures. The Contractor shall be responsible for any overtime costs incurred thereby.
2. The Contractor shall be required to meet all Landlord requirements for construction.
3. The Contractor shall coordinate with Landlord all Work required by the Tenant that occurs outside the Tenant space and is on or within the base building. The contractor is responsible for the installation and integrity of all penetrations required to the existing roof and for meeting all Landlord requirements.
4. The Contractor shall review the base building Contract Documents and shall comply with base building requirements and design criteria.
5. Prior to drilling slab penetrations, the Contractor shall do the following:
a. Clearly identify location of slab penetrations for Architect's review.
b. Coordinate with existing conditions below slab to insure no conflicts with existing ductwork, sprinkler piping, ceiling conditions, etc.
c. X-ray proposed slab penetration locations to identify structural conflicts as required by Landlord.
B. Coordination with Tenant in occupied renovation:
1. Coordinate hours of operation with tenant prior to construction.
2. All load construction shall be performed outside Owner's normal hours of operation. Load construction shall include, but not be limited to the following: Demolition, Framing, GWB Installation, Ductwork Installation, Pulling of electrical wiring.
3. All odor producing construction shall be performed outside Owner's normal hours of operation. Verify odor producing construction shall include, but are not limited to the following: Application of alkyl or oil based coatings, Installation of items requiring adhesives.
4. Provide temporary dust-proof partitions as necessary to separate construction activities from Owner's operations. Review proposed locations of temporary dust-proof partitions with Owner and Architect prior to installation.
C. Coordination with Owner- Supplied items:
1. Make necessary provisions for items to be furnished or installed by Owner as indicated on the drawings. Such provisions include, but are not limited to, plumbing & electrical requirements.
2. Provide protection for Owner-supplied items until completion of the project.
3. The Contractor is to include the installation cost of Owner-supplied items unless otherwise noted.
4. Any ambiguity or need for clarification regarding scope of Work related to Owner-supplied items is to be reviewed with the Architect prior to commencing with the Work.
5. Telephone and data work shall be coordinated by the Contractor with Owner's representative.
6. Security system work shall be coordinated by the Contractor with Owner's representative.
D. Cut and fit components for alteration of existing work and installation of new work. Patch disturbed areas to match adjacent materials and finishes.
E. Prior to construction, the Contractor shall verify that no conflicts exist in locations of any mechanical, telephone, electrical, plumbing and sprinkler equipment (to include piping, duct work, structural members and conduit) and that required clearances for installation and maintenance of above equipment are provided. Elements in conflict shall be determined and reviewed with Architect for resolution prior to construction.
F. Contractor shall order and schedule delivery of materials in ample time to avoid delays in construction. If an item is found to be unavailable or have a long lead time, the Contractor shall notify Architect within seven (7) days of contract award.

SECTION 01300 SUBMITTALS
1.1 GENERAL
A. Within seven (7) days of the contract award, the Contractor shall submit to the Architect a schedule of all submittals identifying estimated date of submission. Submittals shall include but are not limited to:
1. Finishes
2. Doors, frames, and hardware
3. Glass
4. Metals
5. Millwork
6. Equipment
7. Appliances
8. Mechanical equipment, diffusers, grilles, devices, etc.
9. Electrical equipment, light fixtures, controls, devices, etc.
10. Plumbing equipment, fixtures, devices, etc.
11. Sprinkler Plan
B. Preparation of submittals shall be as follows.
1. Submit one (1) reproducible copy and two (2) prints of each shop drawing.
2. For catalog cuts, brochures, and other standard printed or published product data, submit number of copies needed by Contractor plus two (2) copies to be retained by Architect.
3. The contractor shall submit a minimum of three (3) samples of finished. The Architect shall retain two (2) samples of finished for record and return a minim of one sample to Contractor
C. The Contractor shall provide manufacturer's specifications, installation instructions, shop drawings and samples for review and approval prior to ordering or proceeding with the Work. No construction shall proceed until submittals are approved
D. Contractor shall allow up to (10) working days for the Architect and Consultants to the Architect to review submittals. All submittals not reviewed directly by the Architect, but rather Consultants to the Architect, shall be submitted simultaneously to both the Architect and the Consultant and shall be noted as such. The Contractor shall not proceed with work until both Architect and Consultant have approved the submittal. No extension of the contract time will be granted because of failure to provide submittals for the Architect's review or coordination in a timely fashion.
E. The Architect reserves the right to reject any and all items installed without prior review and approval by the Architect
F. Refer to specified items for specific submittal requirements

SECTION 01400 QUALITY CONTROL
1.1 GENERAL
A. Dimensions and Tolerances:
1. Do not scale drawings; dimensions govern. Verify dimensions with field conditions. If discrepancies are discovered between field conditions and drawings or between drawings, contact the Architect for resolution before proceeding.
2. Horizontal dimensions indicated are to/from finished face of partition except as notes
3. Vertical dimensions are from top of floor slab, except where noted to be from above finished floor (AFF), as measured from the high point of the slab. Contractor to notify the Architect when deviation is greater than allowed in note four below.
4. Floor Tolerance: The Contractor is to immediately verify shop and report and deviation over a 3/4 in slope in 10 feet to the Architect prior to commencing Work. The Contractor shall be responsible for leveling all areas to achieve a slope deviation of less than 1/4 inch slope in 10 feet. The Contractor shall ensure an absolute level floor under all swinging and sliding doors.
5. Dimensions are not adjustable without approval of the Architect unless noted (+/-)
6. Dimensions indicated to be "clear" or "cl" shall be maintained. Any discrepancies or variations in these dimensions shall be reviewed with the Architect before beginning construction.
7. Any dimensions noted "verify" or "VIP" must be reviewed with the Architect before beginning construction.
8. The Contractor shall continuously check Architectural and structural clearances for accessibility of equipment and mechanical and electrical systems. No allowance of any kind will be made for the Contractor's failure to foresee means of installing equipment into position inside structures.
B. Observation of Work:
1. The Architect, acting as the Owner's designated agent for design of this project, will exercise sole authority for determining conformance of materials, equipment and systems with the intent of the design. Review and acceptance of items proposed by Contractor for incorporation into the Work will be by the Architect. This function of the Architect will apply to both the Contract as initially signed, and to changes to Contract by modification during progress of Work.
2. If at any time before commencement of Work, or during progress thereof, the Contractor's methods, equipment or appliances are inefficient or inappropriate for securing quality of Work, or rate of progress intended by Contract Documents, the Owner may order the Contractor to improve their quality or increase their efficiency. This will not relieve the Contractor of his sureties from their obligations to secure quality of Work and rate of progress specified in contract.
C. Reference to Standards:
1. Materials and workmanship specified by reference to number symbol, to title of a specification such as commercial standards, federal specification, trade association standard, or other similar standard, shall comply with requirements in latest edition or revision thereof and with any amendment or supplement thereto in effect on date of origin of this project's Contract Documents. Such standard, except as modified herein, shall have full force and effects as though printed in Contract Documents.
2. The Contractor shall waive "Common Practice" and "Common Usage" as construction criteria wherever details and Contract Documents or governing codes, ordinances, etc, require greater quantity or better quality than common practice or common usage would require.
D. Existing Conditions:
1. The Contractor shall be responsible for checking Contract Documents, field conditions, and dimensions for accuracy and confirming that Work is buildable as shown before proceeding with construction. Clarification regarding any conflicts shall be received prior to related Work being started.
2. The Contractor shall notify the Owner in writing of any deficiencies in base building construction prior to the commencement of this Work. Any unreported deficiencies will become the responsibility of the Contractor to correct.
E. In the event of conflict between the Drawings and the Specifications, the Specifications shall govern. Detail drawings take precedence over drawings of larger scope. Should the Contractor at any time discover an error in a drawing or specification, or a discrepancy or variation between drawings, or a discrepancy or variation between dimensions and measurements at site, or lack of dimensions or other information, the Contractor shall not proceed with the Work affected until clarification has been made.
F. The Contractor shall coordinate and review the layout and exact location of the items listed below in the field prior to construction. Any conflicts that arise shall be brought to the Architect's attention in writing for resolution prior to proceeding with construction:
1. Partitions
2. Doors
3. Core drill locations
4. Electrical/telephone outlets
5. Thermostats
6. Light switches
7. Light fixtures
8. Changes in ceiling plane, and other ceiling features
9. VAV boxes, supplemental AC units and other mechanical, electrical, or plumbing items requiring ceiling access or affecting ceiling height
G. The Contractor shall follow manufacturer's recommended specification and installation procedures. If there are contrary to the Contract Documents, the Contractor shall notify the Architect, in writing, immediately, to resolve discrepancies prior to proceeding.
H. Only new items of recent manufacture, of the highest quality, free from defects, will be permitted on the Work. Rejected items shall be removed immediately from the Work and replaced with items of the quality specified. Failure to remove rejected materials and equipment shall not relieve the Contractor from the responsibility for quality and character of items used nor from any other obligation imposed by the Contract.
I. The finished Work shall be firm, well anchored, in true alignment, plumb, level, with smooth, clean, uniform appearance without waves, distortions, holes, marks, cracks, stains, or discoloration. Joinings shall be close fitting, neat and well scribed. The finish work shall have no exposed unsightly anchors or fasteners and shall not present hazardous, unsafe corners. Work shall have the provision for expansion, contractions, and shrinkage as necessary to prevent cracks, buckling and warping due to temperature and humidity conditions.
J. Attachments, connections, or fastenings of any nature are to be properly and permanently secured in conformance with best practice and the Contractor is responsible for improving them accordingly. The drawings show only special conditions to assist the contractor. They do no illustrate every such details.
K. No Work defective in construction or quality or deficient in any requirements of drawings and specifications will be acceptable in consequence of the Owner's or Architect's failure to discover or to point out defects or deficiencies during construction. Nor will presence of inspectors on Work relieve the Contractor from responsibility for securing quality and progress of Works as required by the Contract. Defective Work revealed within the required time guarantees, as specified in the Contract, shall be replaced by Work conforming with the intent of the Contract. No payment whether partial or final shall be construed as an acceptance of defective Work of improper materials.

SECTION 01500 CONSTRUCTION FACILITIES AND TEMPORARY CONTROLS
1.1 GENERAL
A. The Contractor is responsible for and shall provide protection for any existing finishes including elevators, lobbies, stairs, and corridors of the base building.
B. The Contractor shall protect existing base building window coverings.
C. The Contractor shall patch and repair fireproofing damaged or removed during performance of the Work. Fireproof new penetrations required by the Work.
D. Debris shall be removed from the site on a daily basis. Upon completion of the Work, remove debris from the site created by the Work provided under the Contract and leave areas clean.
E. The Contractor shall be required to maintain a job site telephone and e-mail connection.
SECTION 01700 CONTRACT CLOSEOUT
1.1 GENERAL
A. When the Contractor considers that the Work is substantially complete, the Contractor shall prepare and submit to the Architect a list of items to be completed or corrected. The Architect shall visit the site to determine the status of completion and amend the Contractor's list as required. Upon the Contractor's stated completion of the items listed to be completed or corrected, and prior to final payment, the Architect shall perform a final inspection of all items listed. Failure to complete listed items, as determined by the Architect, shall require additional site visits as needed by the Architect to determine final completion. The cost of any additional site visits shall be billed hourly based on the Architect's published hourly rates and shall be deducted from the Contractor's final payment.
B. The following items shall be submitted to the Owner by the Contractor before requesting final payment:
1. Complete release or waiver of liens - documentation shall be notarized and signed
2. certificated of inspection approvals for required occupancy permit and similar approvals or certificates by governing authorities, assuring the Owner's full access and use of completed Work.
3. A notebook containing warranties, bonds, guarantees, affidavits and certificates required by the Contract Documents. Include any operating and cleaning instructions for appliances, materials, finishes, systems and equipment installed as part of the Work.
C. Final Cleaning Remove protective coverings, coverings, any tags, labels or other markings from materials fixtures and equipment. Clean wall, floor and ceiling surfaces including trim, outlet and switch plates, windows, window sills, and window treatments. Clean plumbing fixtures to a sanitary condition.



NOTES

PROFESSIONAL SEAL

SUBMITTALS

#	Description	Date
1	ISSUE FOR PERMIT	02/24/2014

SPECIFICATIONS

A003

Project #	13-269	Date	FEB 24, 2014
Managed By	LW	Drawn By	MP
Scale:			1 1/2" = 1'-0"

TECHNICAL SPECIFICATIONS

SECTION 024119 SELECTIVE STRUCTURE DEMOLITION Remove certain areas in existing building and on the property, as specified herein and shown on the drawings, in order to proceed with new renovation work. Conduct demolition to minimize interference with adjacent structures and building areas. Cease operations immediately if structure appears to be in danger and notify Architect. Do not resume operations until directed. Conduct operations with minimum interference to public or private accesses. Maintain protected egress from and access to adjacent existing buildings at all times. Do not close or obstruct roadways and sidewalks without permit. Obtain written permission from adjacent property owners when demolition equipment will traverse, intrude upon or limit access to their property. Disconnect and remove designated utilities within demolition areas. Cap and identify abandoned utilities at termination points when utility is not completely removed. Demolish in an orderly and careful manner. Protect existing improvements, supporting structural members. Remove demolished materials from site daily except where specifically noted otherwise. Refer to Drawings for additional information on demolition requirements.	SECTION 074116 COLD FLUID-APPLIED WATERPROOFING Single-Component, Modified Polyurethane Waterproofing: ASTM C 836/C 836M and coal-tar free. Two-Component, Unmodified Polyurethane Waterproofing: ASTM C 836/C 836M. Multicomponent, Reinforced, Unsaturated Polyester Waterproofing: ASTM C 886/C 886M. Two-Component, Reinforced, Latex-Rubber Waterproofing: ASTM C 836/C 836M; coal-tar free.	SECTION 083113 ACCESS DOORS AND FRAMES Provide access doors complete with frame and hardware at locations indicated or as required to complete the project. Please verify all types of access doors are applicable. Sizes: 16 x 16 inches at masonry walls and 12 x 12 inches at other locations, unless larger size is required for access to device. Flush Framed Access Doors: Minimum 16 gage steel frame and door panel with nominal 1 inch wide exposed steel flanges. Gypsum Board Access Doors: Minimum 16 gage cold rolled steel frame and door panel, with minimum 22 gage galvanized steel drywall bead flange. Design flanges to be concealed by gypsum board joint finishing compound. Fire Rated Access Doors: Minimum 16 gage cold rolled steel frames and nominal 1 inch wide exposed steel flanges, 2 inch thick, insulated 20 gage steel door panels. Provide self closing and latching doors with keyed lock to match cylinders specified in Division 08 "Door Hardware". Attach label to fire rated doors for rating indicated. Finish: Prime coat units with baked-on primer for field finishing. Finish painting specified in Division 09 "Painting". Secure frames rigidly in place, plumb and level in opening, with plane of door and panel face aligned with adjacent finished surfaces. Install fire rated units in accordance with NFPA 80 and requirements for fire listing.	SECTION 092216 NON-STRUCTURAL METAL FRAMING Steel Studs and Runners: ASTM C 645. Use either steel studs and runners or dimpled steel studs and runners of equivalent minimum base-metal thickness. Minimum Base-Metal Thickness: Gauges As indicated on Drawings. Depth: As indicated on Drawings. Slip-Type Head Joints: Where indicated, provide one of the following in thickness not less than indicated for studs and in width to accommodate depth of studs: 1. Single Long-Leg Runner System: ASTM C 645 top runner with 2-inch-deep flanges, installed with studs friction fit into top runner and with continuous bridging located within 12 inches of the top of studs to provide lateral bracing. 2. Double-Runner System: ASTM C 645 top runners, inside runner with 2-inch-deep flanges and fastened to studs, and outer runner sized to friction fit inside runner. 3. Deflection Track: Steel sheet top runner manufactured to prevent cracking of finishes due to deflection of structure above. Firestop Tracks: Manufactured to allow partition heads to expand and contract with movement of the structure while maintaining continuity of fire-resistance-rated assembly indicated, in thickness not less than indicated for studs and in width to accommodate depth of studs. Flat Strap and Backing Plate: Steel sheet for blocking and bracing in length and width indicated. Minimum Base-Metal Thickness: [As indicated on Drawings] [0.018 inch] [0.027 inch] [0.033 inch] <inset thickness>. Cold-Rolled Channel Bridging: Steel, 0.053-inch minimum base-metal thickness, with minimum 1/2-inch wide flanges. 1. Depth: [As indicated on Drawings] [1-1/2 inches] <inset depth>. 2. Clip Angle: Not less than 1-1/2 by 1-1/2 inches, 0.068-inch-thick, galvanized steel. Hat-Shaped, Rigid Furring Channels: ASTM C 645. 1. Minimum Base-Metal Thickness: 0.018 inch. 2. Depth: 7/8 inch or as indicated on Drawings. Resilient Furring Channels: 1/2-inch-deep, steel sheet members designed to reduce sound transmission. 1. Configuration: hat shaped. Cold-Rolled Furring Channels: 0.053-inch uncoated-steel thickness, with minimum 1/2-inch-wide flanges. 1. Depth: As indicated on Drawings. 2. Furring Brackets: Adjustable, corrugated-edge type of steel sheet with minimum uncoated-steel thickness of 0.033 inch. 3. Tie Wire: ASTM A 641/A 641M, Class 1 zinc coating, soft temper, 0.062-inch-diameter wire, or double strand of 0.048-inch-diameter wire. Z-Shaped Furring: With slotted or nonslotted web, base flange of 1-1/4 inches, wall attachment flange of 7/8 inch, minimum uncoated-metal thickness of 0.018 inch, and depth required to fit insulation thickness indicated. Suspension Systems: Tie Wire: ASTM A 641/A 641M, Class 1 zinc coating, soft temper, 0.062-inch-diameter wire, or double strand of 0.048-inch-diameter wire. Wire Hangers: ASTM A 641/A 641M, Class 1 zinc coating, soft temper, 0.16 inch in diameter. Flat Hangers: Steel sheet, 1 by 3/16 inch by length indicated. Carrying Channels: Cold-rolled, commercial-steel sheet with a base-metal thickness of 0.053 inch and minimum 1/2-inch-wide flanges. 1. Depth: As indicated on Drawings. Furring Channels (Furring Members): 1. Cold-Rolled Channels: 0.053-inch uncoated-steel thickness, with minimum 1/2-inch-wide flanges, 3/4 inch deep. 2. Steel Studs and Runners: ASTM C 645. Use either steel studs and runners or dimpled steel studs and runners of equivalent minimum base-metal thickness. 3. Hat-Shaped, Rigid Furring Channels: ASTM C 645, 7/8 inch deep. a. Minimum Base-Metal Thickness: 0.018 inch. 4. Resilient Furring Channels: 1/2-inch-deep members designed to reduce sound transmission. a. Configuration: hat shaped. Auxiliary Materials: 1. Fasteners for Metal Framing: Of type, material, size, corrosion resistance, holding power, and other properties required to fasten steel members to substrates. 2. Isolation Strip at Exterior Walls: Provide asphalt saturated organic felt or foam gasket. Installation Standard: ASTM C 754. Install framing system components according to spacings indicated, but not greater than spacings required by referenced installation standards for assembly types.	SECTION 095113 CEILING PANEL CEILING Ceiling system shall include ceiling tile, suspension system and accessories. Acoustical Panels: ASTM E1264 mineral fiber, wet-formed, fire texture surface, 24 x 48 x 3/4 inches, angled regular edge profile, color white. Performance: NRC 0.50; CAC 35; Fire Resistance/Flame Spread Class A (UL); Light Reflectance 0.83. Suspension Grid: ASTM C635/C635M, exposed ceiling grid, 15/16 grid size unless otherwise indicated. Hanger Wire: ASTM A641/A641M, Class 1 zinc coating, soft temper. Install suspension system in accordance with ASTM C636. Size: ASTM C635/C635M; minimum 12 gage. Support Channels and Hangers: Galvanized steel; size and type to suit application and ceiling system fineness requirement specified. Stabilizer bars, clips, spikes, perimeter moldings, and hold down clips as required for ceiling suspension system. Fit panels in place, free from damaged edges or other defects detrimental to appearance and function.
SECTION 061213 ARCHITECTURALLY EXPOSED STEEL Section includes architecturally exposed structural-steel (AESS). Preinstallation Conference: Conduct conference at Project site. Shop Drawings: Show fabrication of AESS components. Painting: Submit Samples of AESS to set quality standards for exposed welds. Field Connections: High-Strength Bolts: Install high-strength bolts according to RCSC's "Specification for Structural Joints Using ASTM A 325 or A 490 Bolts" for type of bolt and type of joint specified. Joint Type: Snug tightened. Orient bolt heads in same direction for each connection and to maximum extent possible in same direction for similar connections. Remove backing bars or runoff tabs, back-gouge and grind steel smooth. Remove erection bolts, fill holes, and grind smooth. Fill weld access holes and grind smooth.	SECTION 061000 ROUGH CARPENTRY Provide blocking and bracing at all locations indicated and as required to provide required support for adjoining materials. Wood Blocking, Bracing: Hem Fir No. 2 or better. Fire Retardant Treated in all concealed conditions; Chemical treatment shall achieve flame spread of not greater than 25 in accordance with ASTM-664. Nail in accordance with IRC "Fastening Schedule." Common steel wire nail type. Fasteners: plain finish. Anchor: Expansion shield and lag bolt type for anchorage to concrete. Install blocking where required to support fixtures and fittings attached to framed wall and ceiling construction, including but not limited to blocking behind TVs, artwork, mirrors, toilet room partitions/accessories, casework, millwork, kitchen shelving, etc. Wood Preservative (Pressure Treatment): Urea formaldehyde free pressure treatment, AWPAC1 using water borne Alkaline Copper Quaternary (ACQ) preservative; Above Grade: 0.25 cup. Rough Hardware: Provide and install all necessary nails, bolts, anchors; comply with nailing schedule in code. Use galvanized or corrosion resistant fasteners at exterior exposures. Provide metal plate connectors where indicated or required and miscellaneous metal connectors and anchors indicated.	SECTION 062114 ALUMINUM-CLAD WOOD COMMERCIAL OUT-SWING FRENCH HINGED DOORS Pella® Aluminum-Clad Wood Commercial Out-Swing French Hinged Doors: Architect Series factory-assembled aluminum-clad wood doors with outward-swing door panels installed in frame. Frame: Interior Exposed Surfaces: Pine veneered and edge-banded with no visible fastener holes. Primed for field painting. Exterior Surfaces: Clad with aluminum at head and jambs. Metal Sill: Solid aluminum, dark bronze anodized finish, ADA approved, low profile. Overall Frame Depth: 5-7/8 inches. Door Panel: Interior Exposed Surfaces: Pine core veneered with pine, pine glass stops. Primed for field painting. With weathersipping. Sash Thickness: 2-1/16 inches Glazing: Tempered Glass, ASTM C 1048, 13/16" Natural/Sun Low-E IG with argon with 3mm spacer. Integral Light Technology Glazing and Grilles: Room Side Grilles: Solid 1/4-inch wide clear pine. Exterior Grilles: Extruded aluminum. Dimension to match room side grilles. Finish: Finish color matches interior and exterior finish colors. Hinges: 1. Doors 6' 10" and under frame height will have three (3) ball-bearing hinges. 2. Doors over 6' 10" frame height up to and including 8' 0" frame height will have four (4) ball bearing hinges. 3. Finish: complements the finish of the sill. Exterior Finish System: Pella EnduraClad. Color: Black. Interior Finish: Unfinished, ready for field painting. Flashing/Sealant Tape: Pella SmartFlash. Aluminum-foil backed butyl window and door flashing tape. Installation: Install doors in accordance with manufacturer's instructions and approved shop drawings. Secure assembly to framed openings, plumb and square, without distortion. Integrate door system installation with exterior weather-resistant barrier using flashing/sealant tape. Apply and integrate flashing/sealant tape with weather-resistant barrier using weathersipped principles in accordance with door manufacturer's instructions. Place interior seal around door perimeter to maintain continuity of building thermal and air barrier using insulating foam sealant. Seal door to exterior wall cladding with sealant and related backing materials at perimeter of assembly.	SECTION 062114 ALUMINUM-CLAD WOOD COMMERCIAL OUT-SWING FRENCH HINGED DOORS Pella® Aluminum-Clad Wood Commercial Out-Swing French Hinged Doors: Architect Series factory-assembled aluminum-clad wood doors with outward-swing door panels installed in frame. Frame: Interior Exposed Surfaces: Pine veneered and edge-banded with no visible fastener holes. Primed for field painting. Exterior Surfaces: Clad with aluminum at head and jambs. Metal Sill: Solid aluminum, dark bronze anodized finish, ADA approved, low profile. Overall Frame Depth: 5-7/8 inches. Door Panel: Interior Exposed Surfaces: Pine core veneered with pine, pine glass stops. Primed for field painting. With weathersipping. Sash Thickness: 2-1/16 inches Glazing: Tempered Glass, ASTM C 1048, 13/16" Natural/Sun Low-E IG with argon with 3mm spacer. Integral Light Technology Glazing and Grilles: Room Side Grilles: Solid 1/4-inch wide clear pine. Exterior Grilles: Extruded aluminum. Dimension to match room side grilles. Finish: Finish color matches interior and exterior finish colors. Hinges: 1. Doors 6' 10" and under frame height will have three (3) ball-bearing hinges. 2. Doors over 6' 10" frame height up to and including 8' 0" frame height will have four (4) ball bearing hinges. 3. Finish: complements the finish of the sill. Exterior Finish System: Pella EnduraClad. Color: Black. Interior Finish: Unfinished, ready for field painting. Flashing/Sealant Tape: Pella SmartFlash. Aluminum-foil backed butyl window and door flashing tape. Installation: Install doors in accordance with manufacturer's instructions and approved shop drawings. Secure assembly to framed openings, plumb and square, without distortion. Integrate door system installation with exterior weather-resistant barrier using flashing/sealant tape. Apply and integrate flashing/sealant tape with weather-resistant barrier using weathersipped principles in accordance with door manufacturer's instructions. Place interior seal around door perimeter to maintain continuity of building thermal and air barrier using insulating foam sealant. Seal door to exterior wall cladding with sealant and related backing materials at perimeter of assembly.	
SECTION 061000 ROUGH CARPENTRY Provide blocking and bracing at all locations indicated and as required to provide required support for adjoining materials. Wood Blocking, Bracing: Hem Fir No. 2 or better. Fire Retardant Treated in all concealed conditions; Chemical treatment shall achieve flame spread of not greater than 25 in accordance with ASTM-664. Nail in accordance with IRC "Fastening Schedule." Common steel wire nail type. Fasteners: plain finish. Anchor: Expansion shield and lag bolt type for anchorage to concrete. Install blocking where required to support fixtures and fittings attached to framed wall and ceiling construction, including but not limited to blocking behind TVs, artwork, mirrors, toilet room partitions/accessories, casework, millwork, kitchen shelving, etc. Wood Preservative (Pressure Treatment): Urea formaldehyde free pressure treatment, AWPAC1 using water borne Alkaline Copper Quaternary (ACQ) preservative; Above Grade: 0.25 cup. Rough Hardware: Provide and install all necessary nails, bolts, anchors; comply with nailing schedule in code. Use galvanized or corrosion resistant fasteners at exterior exposures. Provide metal plate connectors where indicated or required and miscellaneous metal connectors and anchors indicated.	SECTION 061113 HOLLOW METAL DOORS AND FRAMES Heavy-Duty Doors and Frames: SDI A250.8, Level 2. At locations indicated in the Door and Frame Schedule. Physical Performance: Level B according to SDI A250.4. Type: As indicated in the Door and Frame Schedule. Thickness: 1-3/4 inches. Face: Metallic-coated, cold-rolled steel sheet, minimum thickness of 0.042 inch. Edge Construction: Model 1, Full Flush. Note: Manufacturer's standard acoustic insulation at interior applications, and thermal insulation at exterior applications. Frames: Materials: Metallic-coated, cold-rolled steel sheet, minimum thickness of 0.053 inch. Construction: Knocked down. Exposed Finish: Prime. Exterior Doors and Frames: 1. Heavy-Duty Doors and Frames: SDI A250.8, Level 2. At locations indicated in the Door and Frame Schedule. Physical Performance: Level B according to SDI A250.4. Type: As indicated in the Door and Frame Schedule. Thickness: 1-3/4 inches. Face: Metallic-coated, cold-rolled steel sheet, minimum thickness of 0.042 inch with minimum A40 coating. Edge Construction: Model 2, Seamless. Note: Manufacturer's standard acoustic insulation at interior applications, and thermal insulation at exterior applications. Thermal-Rated Doors: Provide doors fabricated with thermal-resistance value (R-value) of not less than 2.1 deg F x h x sq ft.Btu when tested according to ASTM C 1363. Frames: Materials: Metallic-coated, cold-rolled steel sheet, minimum thickness of 0.053 inch with minimum A40 coating. Construction: Full profile welded. Exposed Finish: Prime. Jamb Anchors: 1. Masonry Type: Adjustable strap-and-strapup or T-shaped anchors to suit frame size, not less than 0.042 inch thick, with corrugated or perforated straps not less than 2 inches wide by 10 inches long, or wire anchors not less than 0.177 inch thick. 2. Stud-Wall Type: Designed to engage stud, welded to back of frames; not less than 0.042 inch thick. 3. Compression Type for Drywall Slip-on Frames: Adjustable compression anchors. Floor Anchors: 1. Monolithic Concrete Slabs: Clip-type anchors, with two holes to receive fasteners. 2. Separate Topping Concrete Slabs: Adjustable-type anchors with extension clips, allowing not less than 2-inch height adjustment. Terminate bottom of frames at finish floor surface. Steel Finishes: Prime Finish: Clean, pretreat, and apply manufacturer's standard primer. Shop Primer: SDI A250.10. Factory Finish: SDI A250.3. Color and Gloss: As selected by Architect from manufacturer's full range. Doors and frames shall be chemically treated to ensure maximum paint adhesion and coated, on exposed surfaces, with a rust-inhibitive primer suitable as a base for finish paints.	SECTION 084116 FLUSH WOOD DOORS Doors shall fabricated in accordance with AWI's AWMAC's Architectural Woodwork Standards. Solid core, 5-ply, hot press assembled, fully bonded construction, non-Rated and rated: Non-Rated, AWI Section 1300, Type PC - Particleboard. Fire rated as indicated on Drawings, core type as required to meet rating. Fabricate doors with solid hardwood or softwood lumber rails, with grain running perpendicular to stiles. Provide blocking for hardware reinforcement. Factory machine doors for finish hardware in accordance with hardware requirements and dimensions. Do not machine for surface hardware. Seal door top edge with sealer to match door facing. Face Veneer for Opaque Finish: Any close grain hardwood or Medium density overlay, for paint finish. Finish specified in Division 09 "Painting." Accessibility Requirements: Conform to ICC A117.1. Install doors in accordance with AWI Quality Standards requirements and manufacturer's instructions; install fire rated doors in accordance with NFPA 80 and fire rating label requirements; Attach label from agency approved by authority having jurisdiction to identify each fire rated door. Adjust operating hardware for smooth operation. Coordinate installation of doors with installation of frames and hardware.	SECTION 084116 FLUSH WOOD DOORS Doors shall fabricated in accordance with AWI's AWMAC's Architectural Woodwork Standards. Solid core, 5-ply, hot press assembled, fully bonded construction, non-Rated and rated: Non-Rated, AWI Section 1300, Type PC - Particleboard. Fire rated as indicated on Drawings, core type as required to meet rating. Fabricate doors with solid hardwood or softwood lumber rails, with grain running perpendicular to stiles. Provide blocking for hardware reinforcement. Factory machine doors for finish hardware in accordance with hardware requirements and dimensions. Do not machine for surface hardware. Seal door top edge with sealer to match door facing. Face Veneer for Opaque Finish: Any close grain hardwood or Medium density overlay, for paint finish. Finish specified in Division 09 "Painting." Accessibility Requirements: Conform to ICC A117.1. Install doors in accordance with AWI Quality Standards requirements and manufacturer's instructions; install fire rated doors in accordance with NFPA 80 and fire rating label requirements; Attach label from agency approved by authority having jurisdiction to identify each fire rated door. Adjust operating hardware for smooth operation. Coordinate installation of doors with installation of frames and hardware.	
SECTION 064113 WOOD ARCHITECTURAL CASEWORK Perform work in accordance with AWI Custom quality. Wood Materials: Softwood Lumber: PS 20, graded in accordance with AWI Custom; average moisture content of 6 percent; pine, spruce or fir species. Hardwood Lumber: MBLA, graded in accordance with AWI Custom; average moisture content of 6 percent; species as specified on drawings, plan sawn clear select for transparent finish. Panel Materials: Softwood Plywood: PS 1, graded in accordance with AWI, core for laminate finish. Hardwood Plywood: HPMA, graded in accordance with AWI, veneer core, red or white oak species as selected, plain sawn clear select for transparent finish. Wood Particleboard: PS1 standard, composed of wood chips, medium density, made with high-waterproof resin binders; of grade to suit application; sanded faces. Hardboard: ANSI A135.4, Pressed wood fiber with resin binder, tempered grade, smooth two sides. Adhesive: Type recommended by laminate manufacturer to suit application. Edge Trim: Veneer to match cabinets. Shelf Standards and Rests: Formed steel channels and rests, cut for fitted rests spaced at 1 inch centers; satin chrome finish. Drawer and Door Pulls: 3-1/2" wire pulls, color to match adjacent panel finish, OR as specified on drawings. Cabinet Locks: Keyed cylinder, two keys per lock, master keyed, steel with chrome satin finish. Catches: Magnetic type. Drawer Slides: Galvanized steel construction, ball bearings separating tracks, full extension type. Hinges: Knuckle disappearing type "European" hinges, steel with chrome satin finish, 110 degrees, Blum or Salice or equal. Sliding Door Track Assemblies: Galvanized steel construction, ball bearing carriers fitted within tracks, multiple pendant suspension attachments for door. Finishing Materials: Finish work in accordance with AWI - Section 1500, System TR6. Shop assemble casework for delivery to site in units easily handled and to permit passage through building openings. Fit shelves, doors, and exposed edges with 3/8 inch matching hardwood edging. Use one piece for full length only. Door and Drawer Fronts: 3/4 inch thick; --- style. When necessary to cut and fit on site, provide materials with ample allowance for cutting. Provide trim for scribing and site cutting. Set and secure casework in place, rigid, plumb, and level. Use concealed joint fasteners to align and secure adjoining cabinet units. Carefully scribe casework abutting other components, with maximum gaps of 1/32 inch. Do not use additional overlay trim for this purpose. Secure cabinet and counter bases to floor using appropriate angles and anchorages. Countersink anchorage devices at exposed locations. Conceal with solid wood plugs of species to match surrounding wood; finish flush with surrounding surfaces.	SECTION 064113 WOOD ARCHITECTURAL CASEWORK Perform work in accordance with AWI Custom quality. Wood Materials: Softwood Lumber: PS 20, graded in accordance with AWI Custom; average moisture content of 6 percent; pine, spruce or fir species. Hardwood Lumber: MBLA, graded in accordance with AWI Custom; average moisture content of 6 percent; species as specified on drawings, plan sawn clear select for transparent finish. Panel Materials: Softwood Plywood: PS 1, graded in accordance with AWI, core for laminate finish. Hardwood Plywood: HPMA, graded in accordance with AWI, veneer core, red or white oak species as selected, plain sawn clear select for transparent finish. Wood Particleboard: PS1 standard, composed of wood chips, medium density, made with high-waterproof resin binders; of grade to suit application; sanded faces. Hardboard: ANSI A135.4, Pressed wood fiber with resin binder, tempered grade, smooth two sides. Adhesive: Type recommended by laminate manufacturer to suit application. Edge Trim: Veneer to match cabinets. Shelf Standards and Rests: Formed steel channels and rests, cut for fitted rests spaced at 1 inch centers; satin chrome finish. Drawer and Door Pulls: 3-1/2" wire pulls, color to match adjacent panel finish, OR as specified on drawings. Cabinet Locks: Keyed cylinder, two keys per lock, master keyed, steel with chrome satin finish. Catches: Magnetic type. Drawer Slides: Galvanized steel construction, ball bearings separating tracks, full extension type. Hinges: Knuckle disappearing type "European" hinges, steel with chrome satin finish, 110 degrees, Blum or Salice or equal. Sliding Door Track Assemblies: Galvanized steel construction, ball bearing carriers fitted within tracks, multiple pendant suspension attachments for door. Finishing Materials: Finish work in accordance with AWI - Section 1500, System TR6. Shop assemble casework for delivery to site in units easily handled and to permit passage through building openings. Fit shelves, doors, and exposed edges with 3/8 inch matching hardwood edging. Use one piece for full length only. Door and Drawer Fronts: 3/4 inch thick; --- style. When necessary to cut and fit on site, provide materials with ample allowance for cutting. Provide trim for scribing and site cutting. Set and secure casework in place, rigid, plumb, and level. Use concealed joint fasteners to align and secure adjoining cabinet units. Carefully scribe casework abutting other components, with maximum gaps of 1/32 inch. Do not use additional overlay trim for this purpose. Secure cabinet and counter bases to floor using appropriate angles and anchorages. Countersink anchorage devices at exposed locations. Conceal with solid wood plugs of species to match surrounding wood; finish flush with surrounding surfaces.	SECTION 084116 FLUSH WOOD DOORS Doors shall fabricated in accordance with AWI's AWMAC's Architectural Woodwork Standards. Solid core, 5-ply, hot press assembled, fully bonded construction, non-Rated and rated: Non-Rated, AWI Section 1300, Type PC - Particleboard. Fire rated as indicated on Drawings, core type as required to meet rating. Fabricate doors with solid hardwood or softwood lumber rails, with grain running perpendicular to stiles. Provide blocking for hardware reinforcement. Factory machine doors for finish hardware in accordance with hardware requirements and dimensions. Do not machine for surface hardware. Seal door top edge with sealer to match door facing. Face Veneer for Opaque Finish: Any close grain hardwood or Medium density overlay, for paint finish. Finish specified in Division 09 "Painting." Accessibility Requirements: Conform to ICC A117.1. Install doors in accordance with AWI Quality Standards requirements and manufacturer's instructions; install fire rated doors in accordance with NFPA 80 and fire rating label requirements; Attach label from agency approved by authority having jurisdiction to identify each fire rated door. Adjust operating hardware for smooth operation. Coordinate installation of doors with installation of frames and hardware.	SECTION 084116 FLUSH WOOD DOORS Doors shall fabricated in accordance with AWI's AWMAC's Architectural Woodwork Standards. Solid core, 5-ply, hot press assembled, fully bonded construction, non-Rated and rated: Non-Rated, AWI Section 1300, Type PC - Particleboard. Fire rated as indicated on Drawings, core type as required to meet rating. Fabricate doors with solid hardwood or softwood lumber rails, with grain running perpendicular to stiles. Provide blocking for hardware reinforcement. Factory machine doors for finish hardware in accordance with hardware requirements and dimensions. Do not machine for surface hardware. Seal door top edge with sealer to match door facing. Face Veneer for Opaque Finish: Any close grain hardwood or Medium density overlay, for paint finish. Finish specified in Division 09 "Painting." Accessibility Requirements: Conform to ICC A117.1. Install doors in accordance with AWI Quality Standards requirements and manufacturer's instructions; install fire rated doors in accordance with NFPA 80 and fire rating label requirements; Attach label from agency approved by authority having jurisdiction to identify each fire rated door. Adjust operating hardware for smooth operation. Coordinate installation of doors with installation of frames and hardware.	
SECTION 085116 GLAZING Manufacturers: AGC Flat Glass North America, Guardian Industries, Pilkington, PPG Industries. Clear Float Glass: ASTM C1036, Type 1 transparent flat, Class 1 clear, Quality Q3 glazing selected; 1/4 inch thick minimum. Clear Tempered Safety Glass: ASTM C1048, Kind FT Fully tempered, Condition A, uncoated, Type 1 transparent flat, Class 1 clear, Quality Q3 glazing selected; 1/4 inch thick minimum. Insulating Glass: See doors specification section. Butyl Sealant: ASTM C920, single component; black color; non-skinning. Acrylic Sealant: ASTM C920, Type S, Grade NS, Class single component; Polyiside Sealant: ASTM C920, Type M, Grade NS, two component; color as selected. Setting Blocks: Neoprene or EPDM. Spacer Shims: Neoprene or silicone. Glazing Tape: Preformed butyl. Perform installation in accordance with GAMA Glazing Manual. Glazing Sealants: Comply with ASTM C1193. Fire Rated Openings: Comply with NFPA 80	SECTION 085116 GLAZING Manufacturers: AGC Flat Glass North America, Guardian Industries, Pilkington, PPG Industries. Clear Float Glass: ASTM C1036, Type 1 transparent flat, Class 1 clear, Quality Q3 glazing selected; 1/4 inch thick minimum. Clear Tempered Safety Glass: ASTM C1048, Kind FT Fully tempered, Condition A, uncoated, Type 1 transparent flat, Class 1 clear, Quality Q3 glazing selected; 1/4 inch thick minimum. Insulating Glass: See doors specification section. Butyl Sealant: ASTM C920, single component; black color; non-skinning. Acrylic Sealant: ASTM C920, Type S, Grade NS, Class single component; Polyiside Sealant: ASTM C920, Type M, Grade NS, two component; color as selected. Setting Blocks: Neoprene or EPDM. Spacer Shims: Neoprene or silicone. Glazing Tape: Preformed butyl. Perform installation in accordance with GAMA Glazing Manual. Glazing Sealants: Comply with ASTM C1193. Fire Rated Openings: Comply with NFPA 80	SECTION 093000 TILING Ceramic Floor and Wall Tile Materials: Refer to Finish Schedule on Drawings for tile types, sizes, and colors. Setting Materials: Latex-Portland Cement Mortar (Thin Set): ANSI A118.4. GROUT Materials: Polymer-Modified Tile Grout: ANSI A118.7, Colors as selected by Architect. Trowelable Underlayment and Patching Compounds: Latex-modified, portland cement-based formulation provided or approved by manufacturer of the setting materials for installations indicated. Marble Thresholds: ASTM C503, color as selected, honed finish, profile as indicated on Drawings, by full width of wall or frame opening, beveled one side, radiused edges from bevel to vertical face. Waterproof Membrane: Fluid-Applied Membrane: Liquid-latex rubber or elastomeric polymer. Crack Isolation Membrane: Fabric-Reinforced, Fluid-Applied Membrane: System consisting of liquid-latex rubber or elastomeric polymer and continuous fabric reinforcement. Uncoupling Membrane: Molded polyethylene sheet with anchoring webbing on the underside; thickness as indicated. Comply with TCNA's Handbook for Ceramic, Glass, and Stone Tile Installation for installation methods applicable to the tile materials, substrates, membranes, setting and grouting materials, and details indicated on Drawings. Comply with parts of the ANSI A108 Series "Specifications for Installation of Ceramic Tile" that are referenced in TCNA installation methods, and apply to types of setting and grouting materials used.	SECTION 093000 TILING Ceramic Floor and Wall Tile Materials: Refer to Finish Schedule on Drawings for tile types, sizes, and colors. Setting Materials: Latex-Portland Cement Mortar (Thin Set): ANSI A118.4. GROUT Materials: Polymer-Modified Tile Grout: ANSI A118.7, Colors as selected by Architect. Trowelable Underlayment and Patching Compounds: Latex-modified, portland cement-based formulation provided or approved by manufacturer of the setting materials for installations indicated. Marble Thresholds: ASTM C503, color as selected, honed finish, profile as indicated on Drawings, by full width of wall or frame opening, beveled one side, radiused edges from bevel to vertical face. Waterproof Membrane: Fluid-Applied Membrane: Liquid-latex rubber or elastomeric polymer. Crack Isolation Membrane: Fabric-Reinforced, Fluid-Applied Membrane: System consisting of liquid-latex rubber or elastomeric polymer and continuous fabric reinforcement. Uncoupling Membrane: Molded polyethylene sheet with anchoring webbing on the underside; thickness as indicated. Comply with TCNA's Handbook for Ceramic, Glass, and Stone Tile Installation for installation methods applicable to the tile materials, substrates, membranes, setting and grouting materials, and details indicated on Drawings. Comply with parts of the ANSI A108 Series "Specifications for Installation of Ceramic Tile" that are referenced in TCNA installation methods, and apply to types of setting and grouting materials used.	

LIFE SAFETY LEGEND			
	1 HR FIRE RATED PARTITION		EGRESS ROUTE
	FIRE EXTINGUISHER		EGRESS PATH CLEAR WIDTH
	EXIT DISCHARGE		ACCESSIBLE SEAT
	EGRESS CAPACITY		ADA CLEARANCE AT ACCESSIBLE DINING SURFACE
	# OF OCCUPANTS EGRESSING AT POINT		

PLUMBING FIXTURES		
	REQUIRED	PROVIDED
WATERCLOSETS, 1/75		
MALE	1 WC	1 WC
FEMALE	1 WC	1 WC
LAVATORIES, 1/200		
MALE	1 LAV	1 LAV
FEMALE	1 LAV	1 LAV
TOTAL RESTROOMS	1 EACH W/ 1 WC & 1 LAV	2, BOTH UNISEX W/ 1 WC & 1 LAV
SERVICE SINK	1 UNIT	1 UNIT

FIRE EGRESS CODE REVIEW		
OCCUPANCY TYPE: F-1 (FACTORY) SPRINKLERED: NO		
PER IBC 2012, 1016 EXIT ACCESS TRAVEL DISTANCE (ETD)	200' - 0" MAX.	72' - 4"
PER IBC 2012, 1028.9 COMMON PATH OF EGRESS TRAVEL (CP) LESS THAN 50 OCCUPANTS	75' - 0" MAX.	69' - 10"
EGRESS LOADING:		
EXIT DOORS	34 OCCUPANTS 0.2" PERSON = 6.8"	
	1 EXITS @ 32"	3 EXITS @ 36"

MAXIMUM ALLOWABLE OCCUPANCY				
Office A	Name	AREA USE	AREA	NO. OF OCCUPANTS BY AREA
		BUSINESS	368 SF	3.68
WORKROOM B		INDUSTRIAL AREA	329 SF	3.29
WORKROOM A		INDUSTRIAL AREA	1074 SF	10.74
WORKROOM C		INDUSTRIAL AREA	1366 SF	13.66
				27.69
OFFICE STORAGE		STORAGE	233 SF	0.78
STORAGE B, C, D, E, F, G, & H		STORAGE	450 SF	1.50
STORAGE A		STORAGE	214 SF	0.71
				2.99
Grand total				34.36

MAXIMUM ALLOWABLE CAPACITY

34

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Washington, DC 20006
Phone: 202-216-0039
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NOTES

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Professional Certification:
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional architect under the laws of the District of Columbia.
License No: ARC5942 Exp. Date: 04/30/2014

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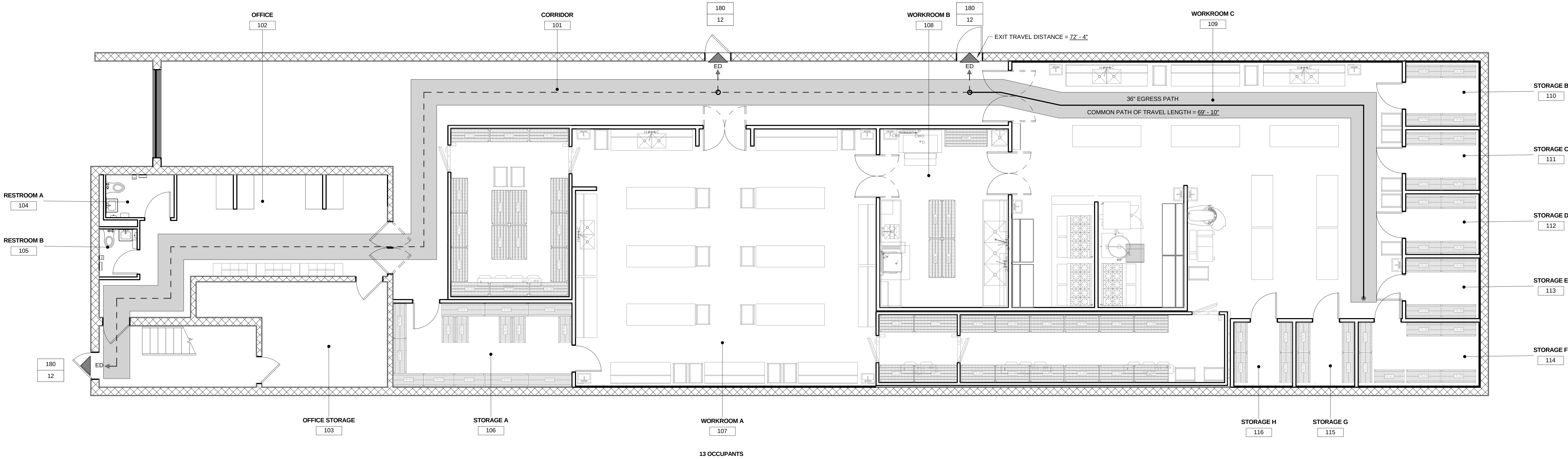
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1	ISSUE FOR PERMIT	02/24/2014

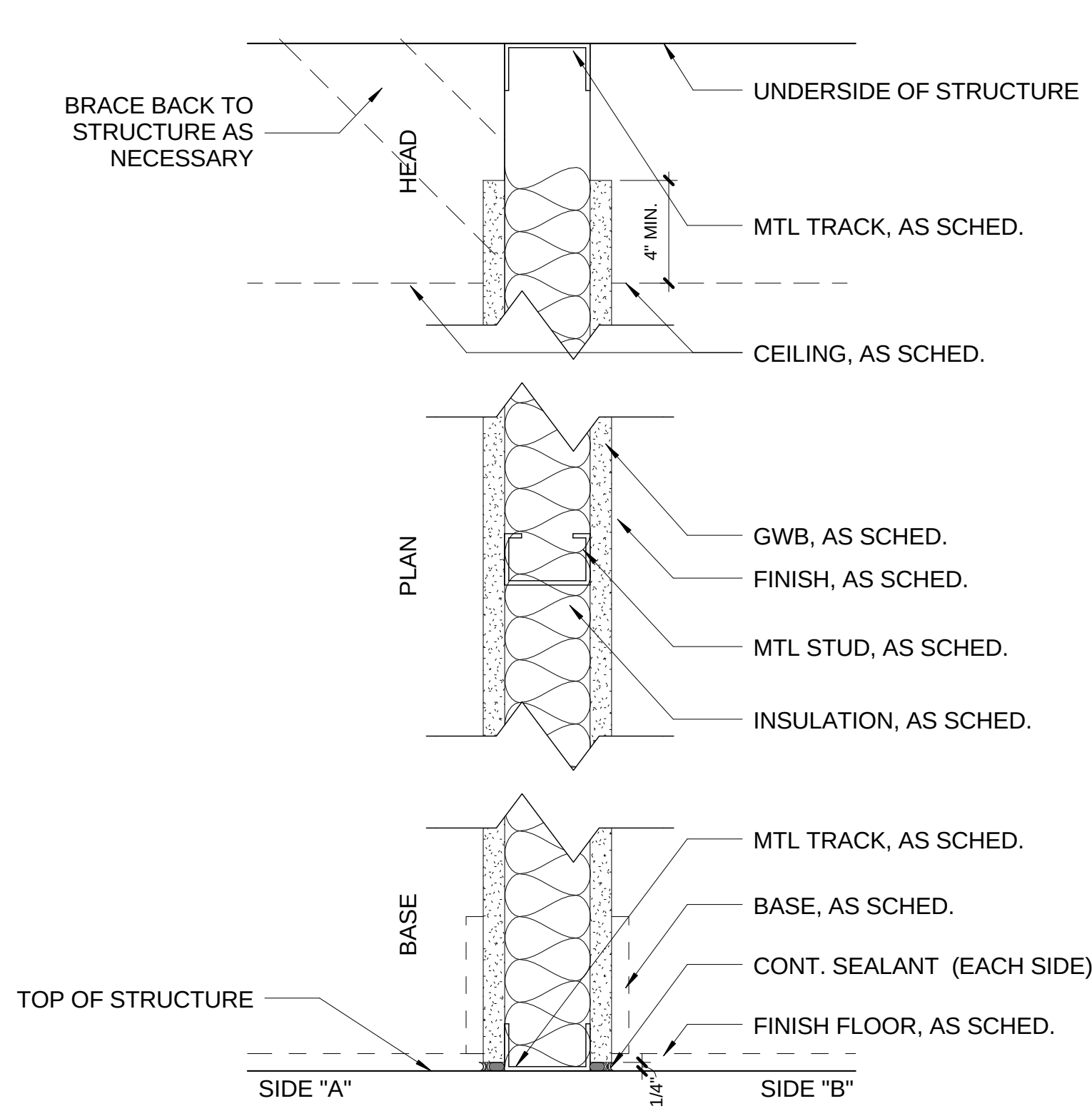
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OCCUPANCY & EGRESS PLAN

A005

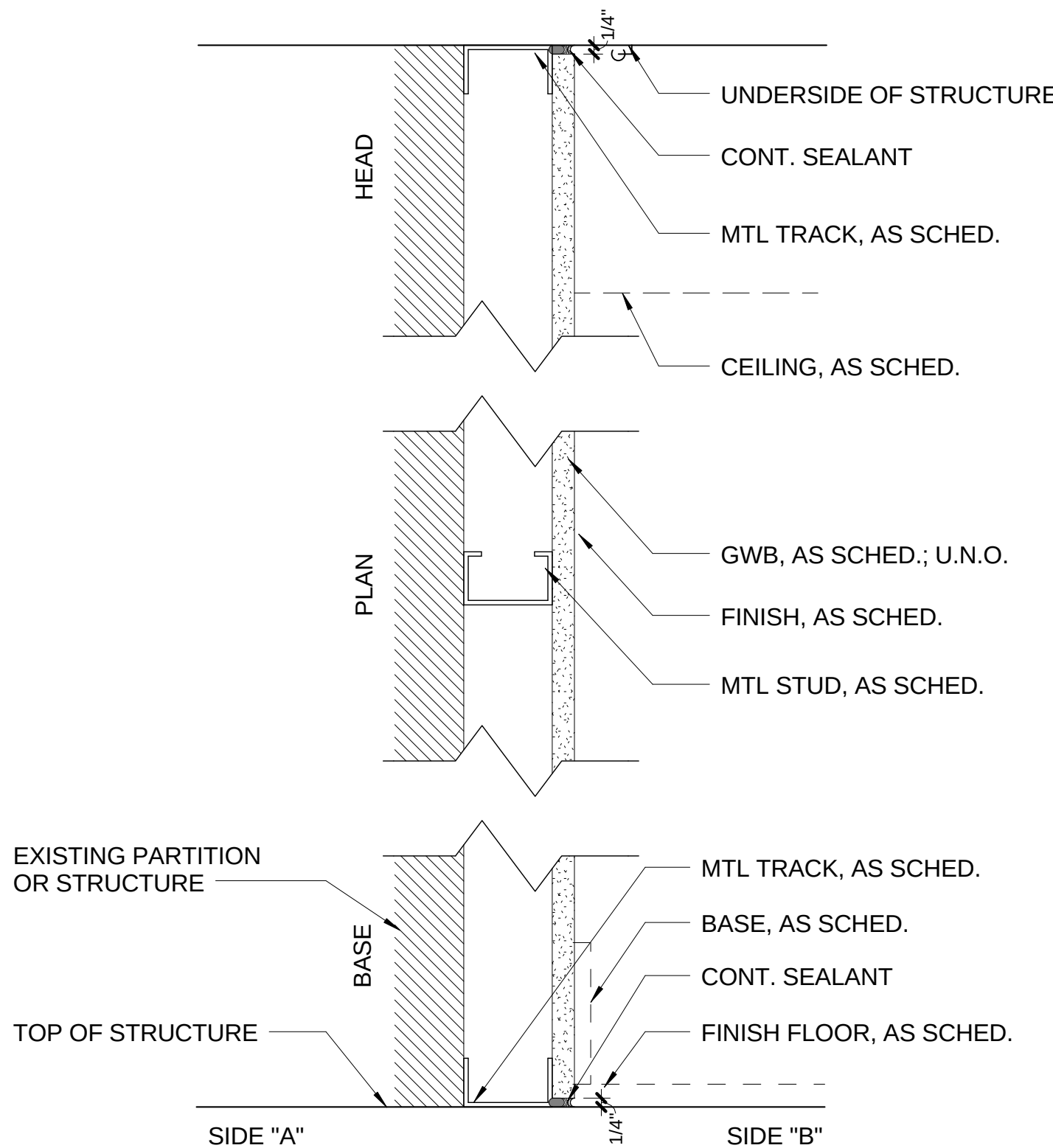
Project #	13-269	Date	FEB 24, 2014
Managed By	LW	Drawn By	MP
Scale:	As Indicated		





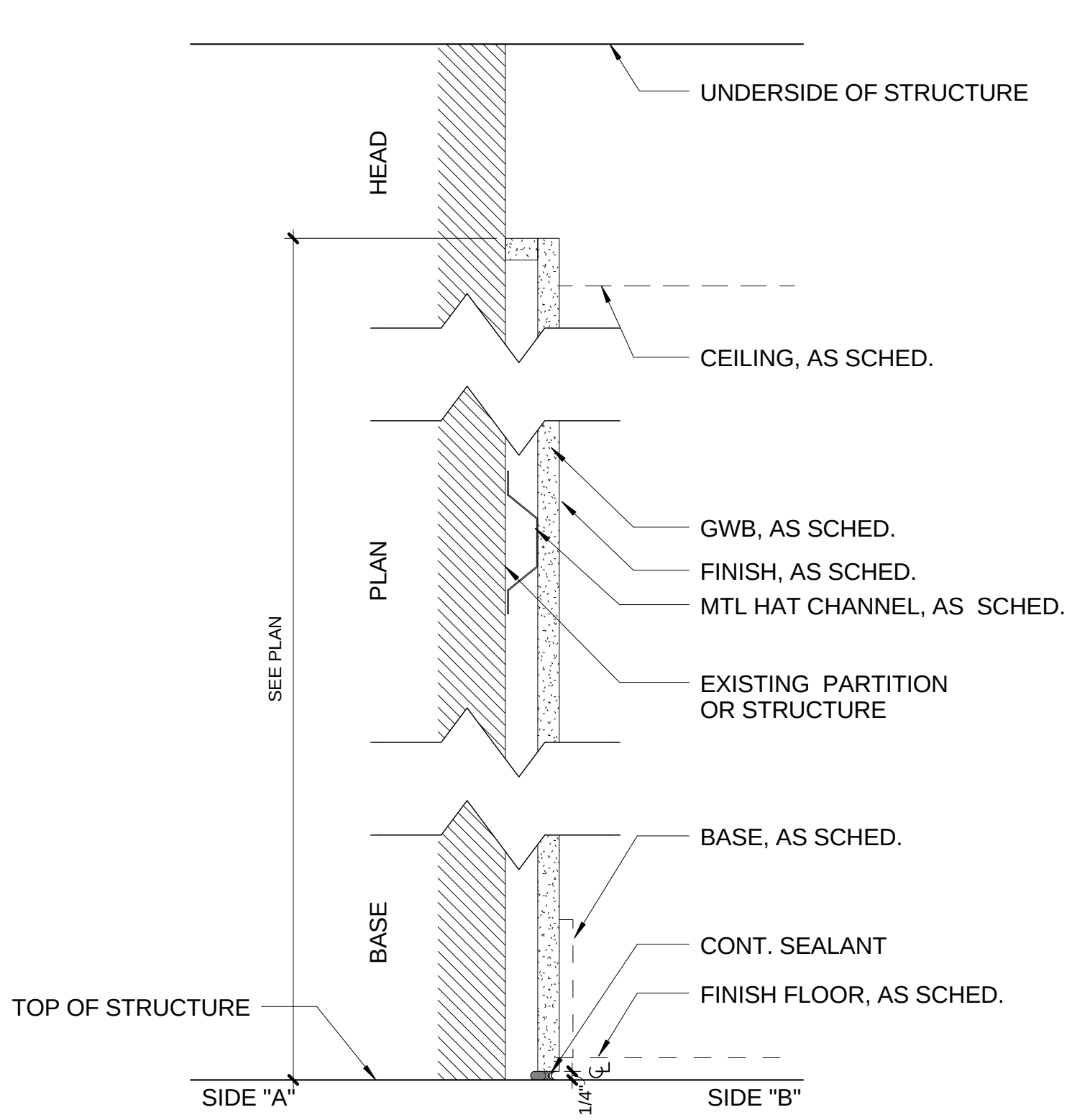
TYPE B - FULL HEIGHT PARTITION

TYPE	STUD SIZE	PART. WIDTH	FIRE RATING	INSULATION R-VALUE	SOUND ATTEN.	SIDE A. GWB.	SIDE B GWB.
B1	2 1/2"	3 3/4"	N/A	N/A	N/A	5/8"	5/8"
B2	2 1/2"	3 3/4"	N/A	--	2 1/2"	5/8"	5/8"
B3	3 5/8"	4 7/8"	N/A	N/A	N/A	5/8"	5/8"
B4	3 5/8"	4 7/8"	N/A	--	3 1/2"	5/8"	5/8"
B5	6"	7 1/4"	N/A	N/A	N/A	5/8"	5/8"
B6	6"	7 1/4"	N/A	--	5 1/2"	5/8"	5/8"



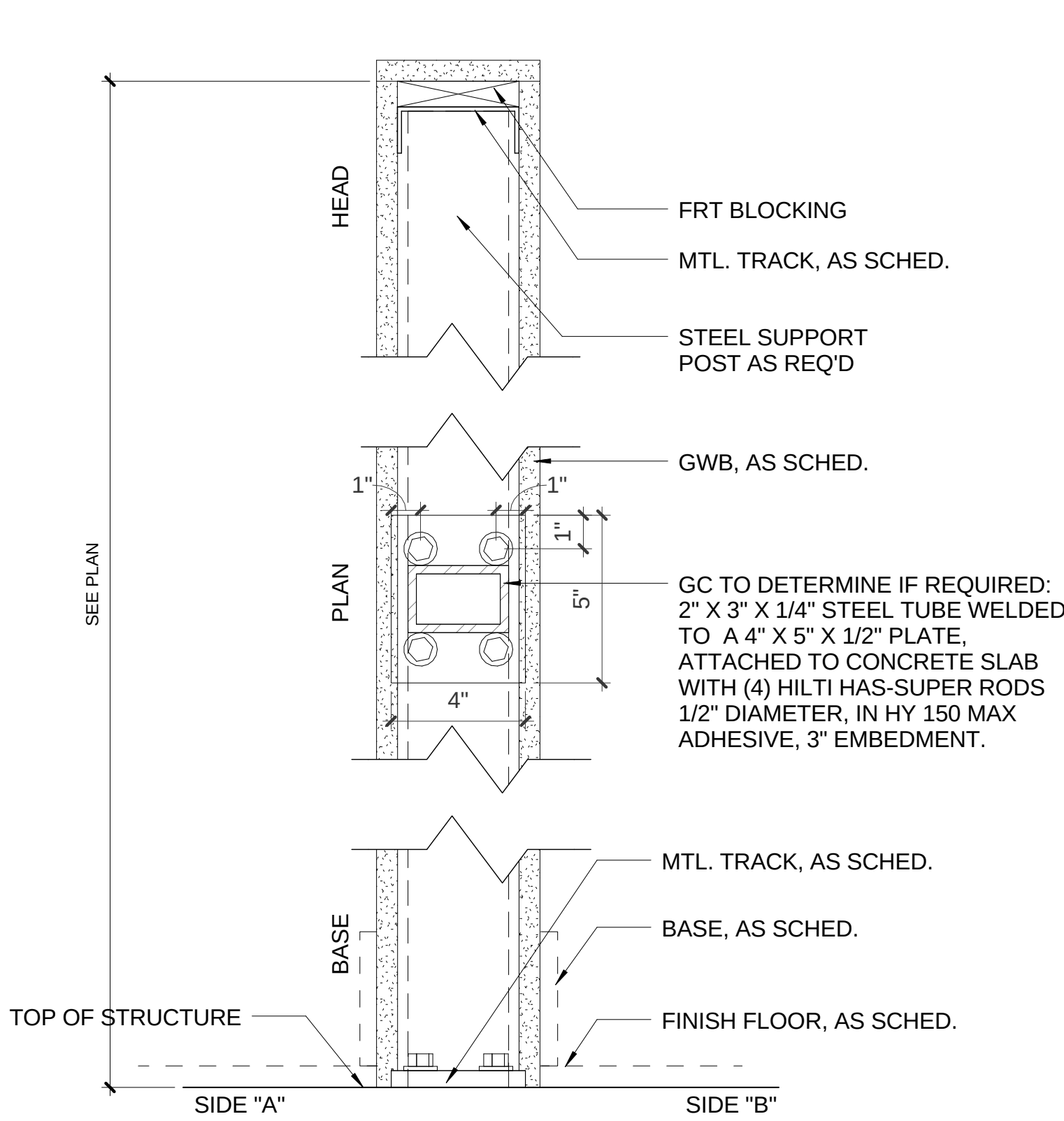
TYPE C - FURRED PARTITION

TYPE	STUD SIZE	PART. WIDTH	FIRE RATING	INSULATION R-VALUE	SOUND ATTEN.	SIDE A. GWB.	SIDE B GWB.
C1	2 1/2"	3 1/8"	N/A	N/A	N/A	N/A	5/8"
C2	2 1/2"	3 1/8"	N/A	--	2 1/2"	N/A	5/8"
C3	3 5/8"	4 1/4"	N/A	N/A	N/A	N/A	5/8"
C4	3 5/8"	4 1/4"	N/A	--	3 5/8"	N/A	5/8"
C5	6"	6 5/8"	N/A	N/A	N/A	N/A	5/8"
C6	6"	6 5/8"	N/A	--	6"	N/A	5/8"



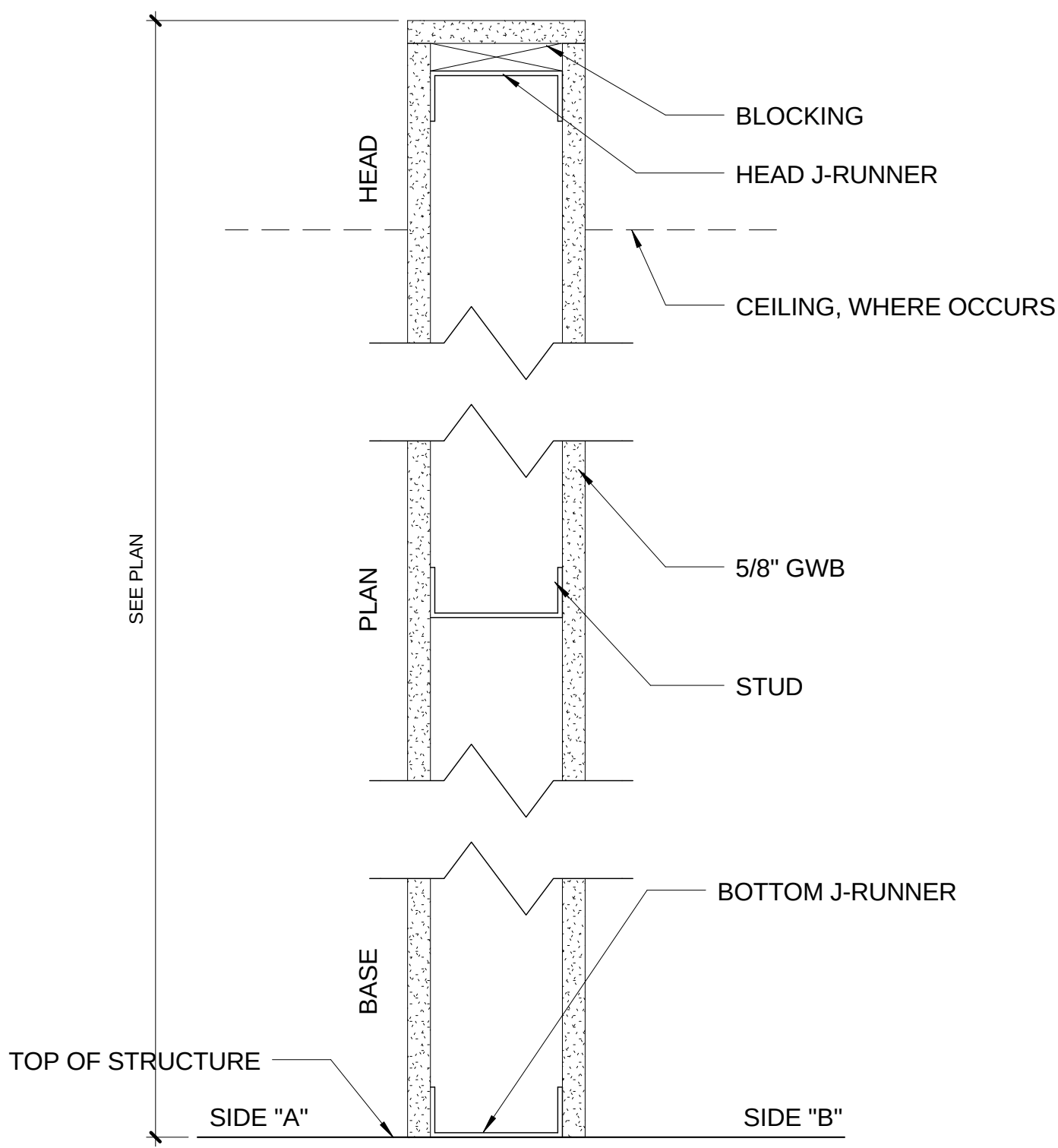
TYPE D - FURRED PARTITION

TYPE	STUD SIZE	PART. WIDTH	FIRE RATING	INSULATION R-VALUE	SOUND ATTEN.	SIDE A. GWB.	SIDE B GWB.
D1	7/8"	1 1/2"	N/A	N/A	N/A	N/A	5/8"
D2	1 1/2	2 1/8"	N/A	N/A	N/A	N/A	5/8"



TYPE G - PARTIAL HEIGHT PARTITION

TYPE	STUD SIZE	PART. WIDTH	FIRE RATING	INSULATION R-VALUE	SOUND ATTEN.	SIDE A. GWB.	SIDE B GWB.
G1	3 5/8"	4 7/8"	N/A	N/A	N/A	5/8"	5/8"
G2	3 5/8"	4 7/8"	N/A	N/A	3 5/8"	5/8"	5/8"
G3	6"	7 1/4"	N/A	N/A	N/A	5/8"	5/8"
G4	6"	7 1/4"	N/A	N/A	6"	5/8"	5/8"



TYPE K - PARTIAL HEIGHT PARTITION W/O SUPPORT

TYPE	STUD SIZE	PART. WIDTH	FIRE RATING	STC RATING	SOUND ATTEN.	SIDE A. GWB.	SIDE B GWB.
K1	3 5/8"	4 7/8"	N/A	N/A	N/A	5/8"	5/8"
K2	6"	7 1/4"	N/A	N/A	N/A	5/8"	5/8"

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NOTES

1. METAL STUD, FRAMING SHALL CONFORM TO ASTM C754 AND SSMA.
2. ALL STUDS ARE 9-5/8" 20 GAUGE MIN., UNLESS OTHERWISE NOTED.
3. ALL SHEATHING BEHIND TILES TO BE 5/8" DUROCK.
4. ALL SHEATHING BEHIND FRP TO BE 5/8" PLYWOOD FIRST 18" BEING 5/8" DUROCK.
5. ALL SHEATHING BEHIND PAINTED SURFACES TO BE 5/8" GYPSUM BOARD.
6. REFER TO FINISH PLANS & ELEVATIONS FOR APPLIED FINISHES TO BASE PARTITIONS.

PROFESSIONAL SEAL

Professional Certification:
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional architect under the laws of the District of Columbia.
License No: ARCS942 Exp. Date: 04/30/2014

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#	Description	Date
1	ISSUE FOR PERMIT	02/24/2014

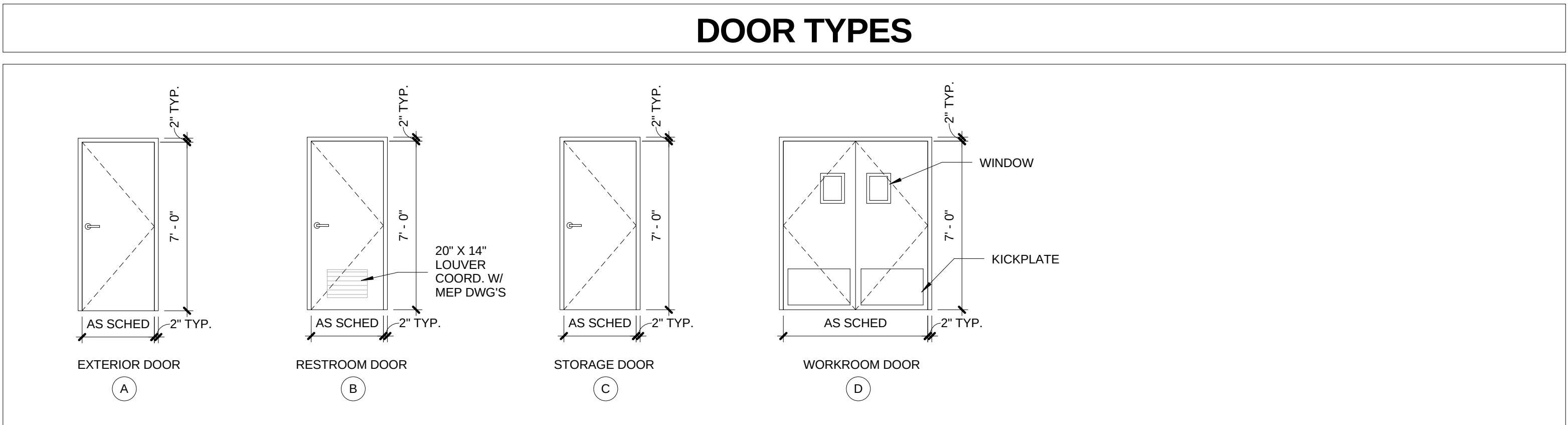
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PARTITION TYPES

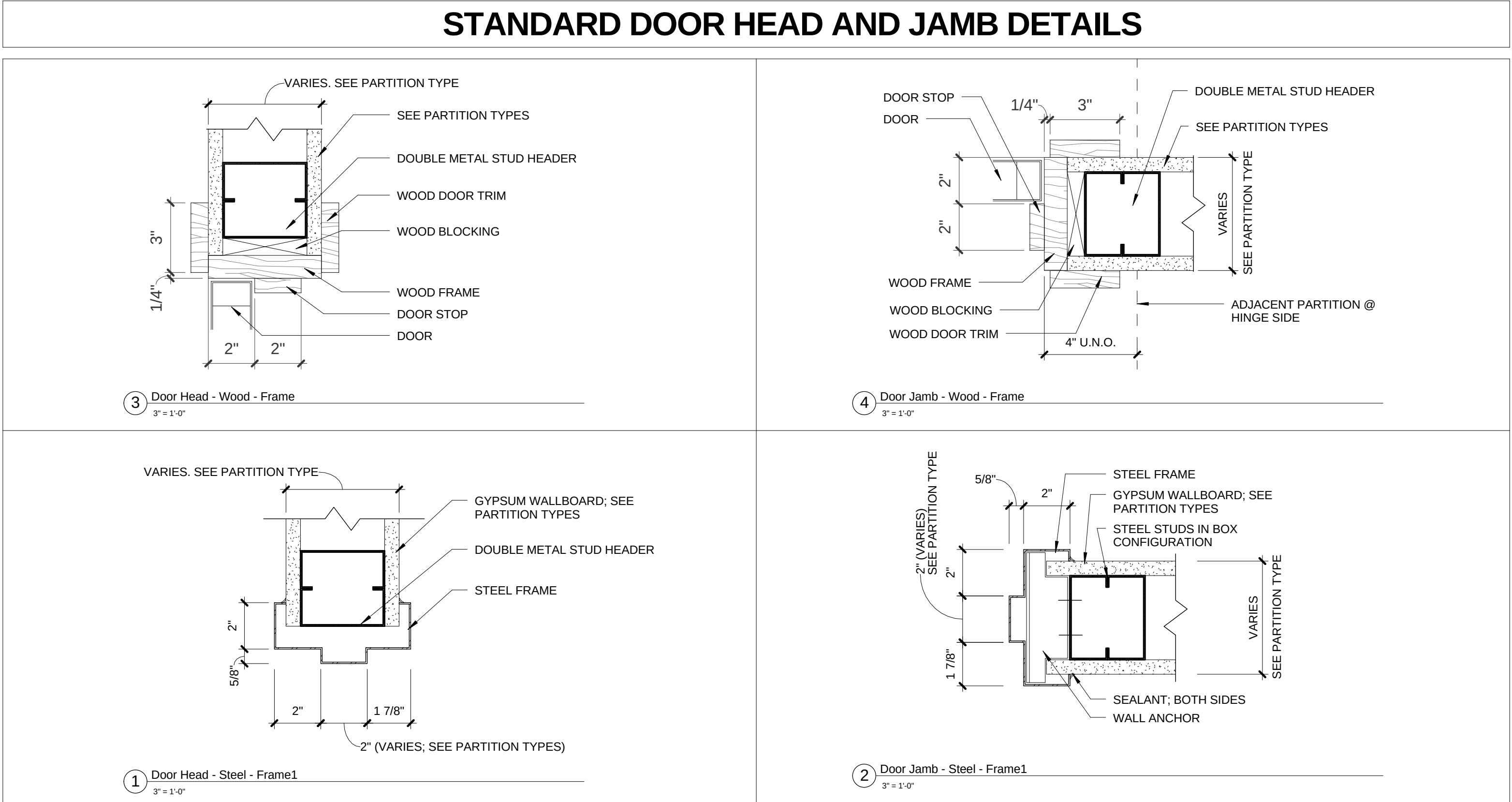
A006

Project #	13-269	Date	FEB 24, 2014
Managed By	LW	Drawn By	MP
Scale:	3" = 1'-0"		

DOOR SCHEDULE											
ITEM TAG	DOOR TYPE	DOOR WIDTH	DOOR HEIGHT	DOOR THICK	DOOR MAT'L	DOOR FINISH	FIRE RATING	FRAME TYPE	FRAME FINISH	HARDWARE SET	REMARKS
D001	A	3'-0"	7'-0"	0'-1 3/4"	HOLLOW METAL	P1	1 HR	HM	P1	H1	
D002	B	3'-0"	7'-0"	0'-1 3/4"	PAINT GRADE WOOD	P1		WD	P1	H2	
D003	B	2'-10"	7'-0"	0'-1 3/4"	PAINT GRADE WOOD	P1		WD	P1	H2	
D004	C	3'-0"	7'-0"	0'-1 3/4"	PAINT GRADE WOOD	P1		WD	P1	H3	
D005	C	3'-0"	7'-0"	0'-1 3/4"	PAINT GRADE WOOD	P1		WD	P1	H3	
D006	D	5'-0"	7'-0"	0'-1 3/4"	PRODUCT: ELIASON SCP-15 OR EQ.	LAMINATE, 'FOG'		BY MANUFACTURER		BY MANUFACTURER	9" X 14" WINDOW, NO LOCKSET.
D007	D	5'-0"	7'-0"	0'-1 3/4"	PRODUCT: ELIASON SCP-15 OR EQ.	LAMINATE, 'FOG'		BY MANUFACTURER		BY MANUFACTURER	9" X 14" WINDOW, NO LOCKSET.
D008	D	5'-0"	7'-0"	0'-1 3/4"	PRODUCT: ELIASON SCP-15 OR EQ.	LAMINATE, 'FOG'		BY MANUFACTURER		BY MANUFACTURER	9" X 14" WINDOW, NO LOCKSET.
D009	D	6'-0"	7'-0"	0'-1 3/4"	PRODUCT: ELIASON SCP-15 OR EQ.	LAMINATE, 'FOG'		BY MANUFACTURER		BY MANUFACTURER	9" X 14" WINDOW, NO LOCKSET.
D010	C	3'-0"	7'-0"	0'-1 3/4"	PAINT GRADE WOOD	P1		WD	P1	H3	
D011	C	3'-0"	7'-0"	0'-1 3/4"	PAINT GRADE WOOD	P1		WD	P1	H3	
D012	C	3'-0"	7'-0"	0'-1 3/4"	PAINT GRADE WOOD	P1		WD	P1	H3	
D013	C	3'-0"	7'-0"	0'-1 3/4"	PAINT GRADE WOOD	P1		WD	P1	H3	
D014	C	3'-0"	7'-0"	0'-1 3/4"	PAINT GRADE WOOD	P1		WD	P1	H3	
D015	C	3'-0"	7'-0"	0'-1 3/4"	PAINT GRADE WOOD	P1		WD	P1	H3	
D016	C	3'-0"	7'-0"	0'-1 3/4"	PAINT GRADE WOOD	P1		WD	P1	H3	



HARDWARE SCHEDULE						
ITEM	COUNT	MANUFACTURER		FINISH		COMMENTS
		NAME	MODEL			
H1- EXTERIOR EGRESS						
1 SET OF 3 HINGES	1	HAGER	5-BB-1HW-5X5-646-NRP	SATIN	SIZE 7'-0"	
OVERHEAD CLOSER	1	LCN	4040	SATIN NICKEL	PARALLEL ARM (PUSH SIDE) MOUNTED	
PANIC HARDWARE LOCKSET	1	VONDUPRIN	99L-F-BE	S2S FINISH @ EGRESS	RIM DEVICE/LEVER EXTERIOR SIDE	
DOOR SILENCERS	3	IVES	SR65	BLACK		
WALL DOOR STOP	2	HAGER	HAG-256W-US26D	SATIN CHROME		
WEATHER STRIPPING	1	REESE	DS75C-204	-	SIZE 42"	
KICK PLATE	2	HIWATHA	K9X34-32D	STAINLESS STEEL #4	34"X40"-PUSH SIDE	
DOOR SWEEP	1	REESE	377C-42	-	SIZE 42"	
H2-RESTROOM						
1 SET OF 3 HINGES	1	STANLEY	FB8179	SATIN	SIZE 4 1/2" X 4 1/2"	
OVERHEAD CLOSER	1	DORMA	7414AR	ALUMINIUM	PARALLEL ARM (PUSH SIDE) MOUNTED	
PRIVACY LOCKSET	1	SCHLAGE	AL405-SAT-626	SATIN CHROME	LEVER LOCKSET	
DOOR STOP	1	DON-JO	1407-630	-		
DOOR SILENCERS	3	IVES	SR64	STAINLESS STEEL #4	8"X34"-PUSH SIDE	
H3-STORAGE						
1 SET OF 3 HINGES	1	STANLEY	FB8179	SATIN	SIZE 4 1/2" X 4 1/2"	
STOREROOM LOCKSET	1	SCHLAGE	AL80PD-SAT-626	SATIN CHROME	LEVER LOCKSET	
DOOR STOP	1	DON-JO	1407-630	-		
DOOR SILENCERS	3	IVES	SR64	STAINLESS STEEL #4	8"X34"-PUSH SIDE	
FINISH: ALL DOOR HARDWARE AND ACCESSORIES ARE NOTED IN ADJACENT SCHEDULE.						
HARDWARE: ALL HINGES TO BE BEARING TYPE. ALL HARDWARE TO BE LEVERS, HAVING AN OBVIOUS METHOD OF OPERATION UNDER ALL LIGHTING CONDITIONS. THE RELEASING MECHANISM SHALL OPEN THE DOOR WITH NOT MORE THAN ONE RELEASING OPERATION PER NFPA 101 (2003 7.2.15.9.2)						
CODE: DOORS IN A REQUIRED MEAN OF EGRESS FROM AN AREA HAVING AN OCCUPANT LOAD OF 100 OR MORE PERSONS SHALL BE PERMITTED TO BE PROVIDED WITH A LATCH OR LOCK ONLY IF THE LATCH OR LOCK IS PANIC HARDWARE OR FIRE EXIT HARDWARE PER NFPA 101 (2003 7.2.2.2.3). PANIC HARDWARE SHALL CONTAIN A MINIMUM OF TWO (2) LOCKING POINTS ON EACH DOOR. ONE LOCATED AT THE HEADER, THE OTHER AT THE THRESHOLD OF THE DOOR. ON SINGLE DOORS, PANIC HARDWARE MAY HAVE ONE LOCKING POINT WHICH IS NOT LOCATED AT EITHER THE TOP OR BOTTOM RAILS OF THE DOOR FRAME. THE DOOR SHALL HAVE AN ASTRAGAL, CONSTRUCTED OF STEEL, 0.125" THICK WHICH SHALL BE ATTACHED WITH NON-REMOVABLE BOLTS TO THE OUTSIDE OF THE DOOR. THE ASTRAGAL SHALL EXTEND A MINIMUM OF SIX (6) INCHES VERTICALLY ABOVE AND BELOW THE LATCH OF THE PANIC HARDWARE. THE ASTRAGAL SHALL BE A MINIMUM OF TWO (2) INCHES WIDE AND EXTEND A MINIMUM OF ONE (1) INCH BEYOND THE EDGE OF THE DOOR TO WHICH IT IS ATTACHED. DOUBLE DOORS CONTAINING PANIC HARDWARE SHALL HAVE A FULL ASTRAGAL CONSTRUCTED OF STEEL, ATTACHED TO THE DOORS AT THEIR MEETING POINT WHICH WILL CLOSE THE OPENING BETWEEN THEM, BUT NOT INTERFERE WITH THE OPERATION OF EITHER DOOR.						
SECURITY: PANIC BAR - (FRONT) DETEX, V40, 711 FINISH, EXIT ALARM (EB), 08-BRN-689, CYLINDERUS26D, PEEP HOLE - ACE DOOR VIEWER, 01-3032-122, 200 DEGREE, SATIN NICKEL						



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NOTES

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SUBMITTALS

#	Description	Date
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SCHEDULES

A008

Project # 13-269 Date FEB 24, 2014

Managed By LW Drawn By MP

Scale: As indicated

2/23/2024 1:47:30 PM

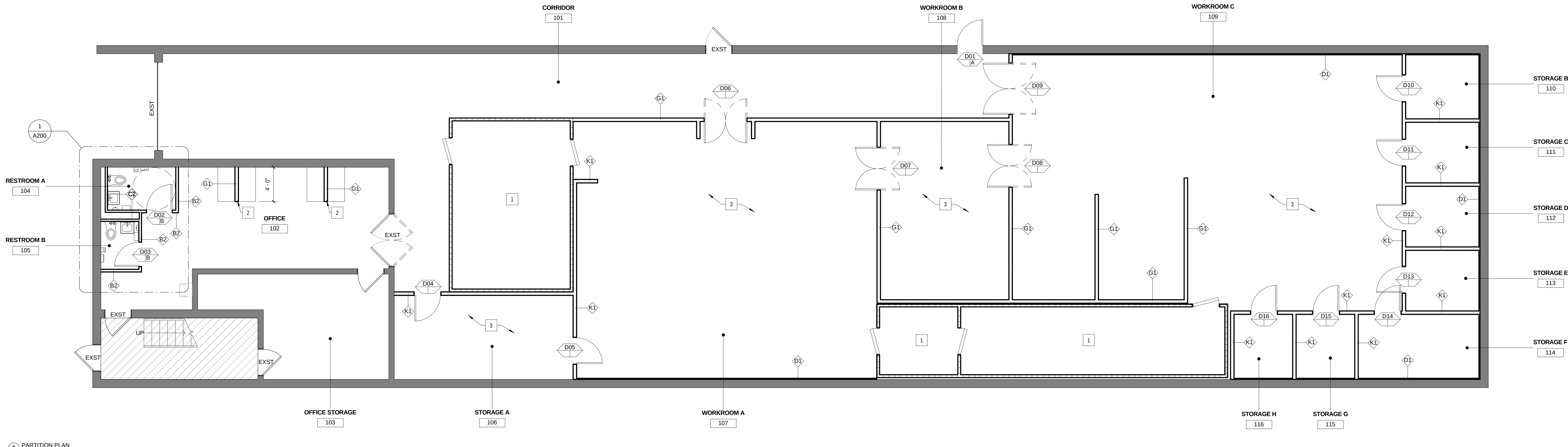
LIGHT FIXTURE SCHEDULE						
ITEM TAG	QUANTITY	DESCRIPTION	NAME	MANUFACTURER	MODEL #	LAMP
L1	39	OPEN CEILING FLOURESCENTS	LITHONIA LIGHTING	FHE 432L 3/4		(4) T8
L2	21	2' x 2' FLUORESCENT	LITHONIA LIGHTING	RECESSED TROFFER 2GT8 2 U316 A12 MVOLT GEB101S		(2) T8
L3	2	6" CANS	LITHONIA LIGHTING	6BP LED 6" INCANDESCENT HOUSING		LED 9 W
						THROUGHOUT

FLOOR PLAN LEGEND	
	EXISTING WALL TO REMAIN
	NEW FULL HEIGHT PARTITION
	NEW PARTIAL HEIGHT PARTITION
	NEW INSULATED PARTITION

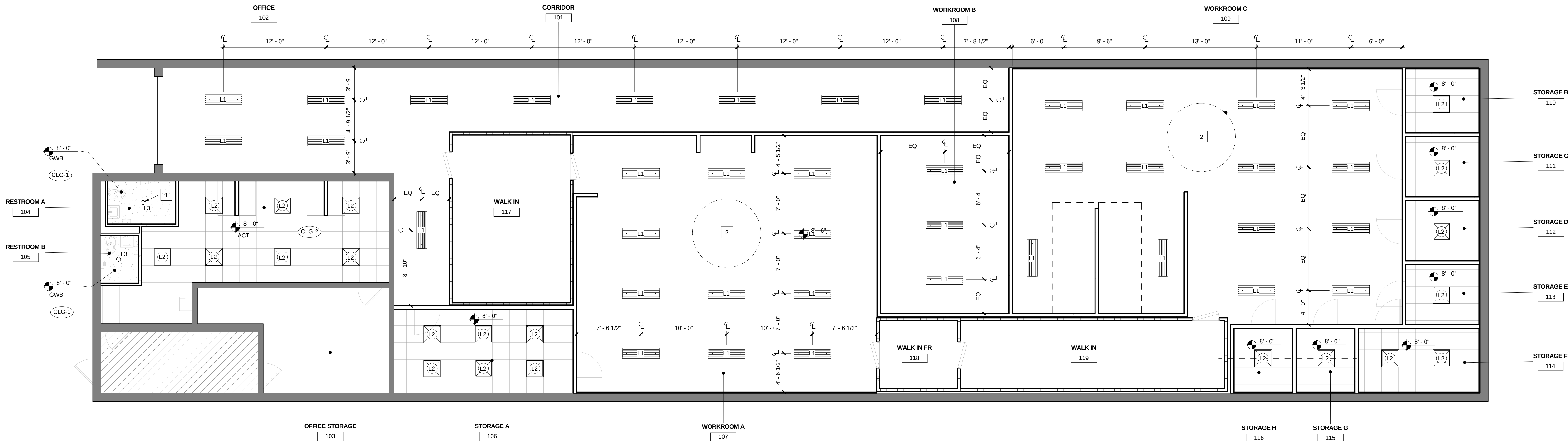
PARTITION PLAN NOTES	
1	WALK-IN REFRIG., SEE KITCHEN DRAWINGS
2	PARTITION TO BE 5'-0" HIGH
3	UNLESS OTHERWISE NOTED, ALL PARTITIONS TO BE 8'-6" HIGH.

RCP LEGEND	
	GYPSUM BOARD
	ACOUSTIC CEILING PANELS

REFLECTED CEILING PLAN NOTES	
1	CENTER LIGHTING FIXTURE IN ROOM
2	FAN, SUSPENDED FROM CEILING, MOUNT @ 12'-0" AFF. SPEC: BIGASSFANS POWERFOL X 2.0, 8'-0" DIAMETER.



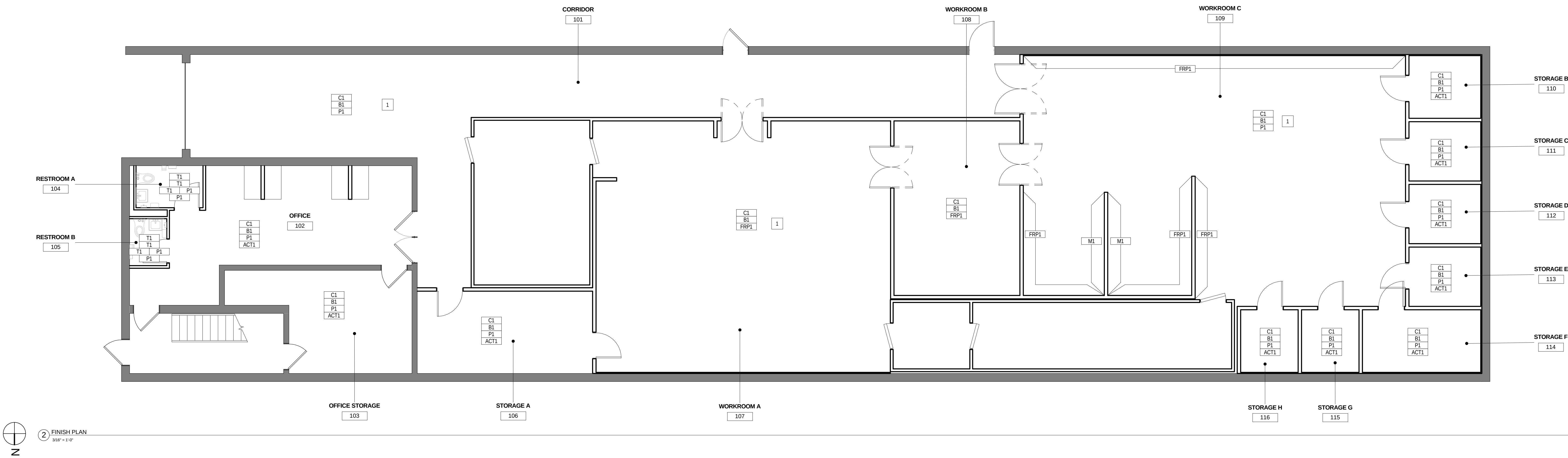
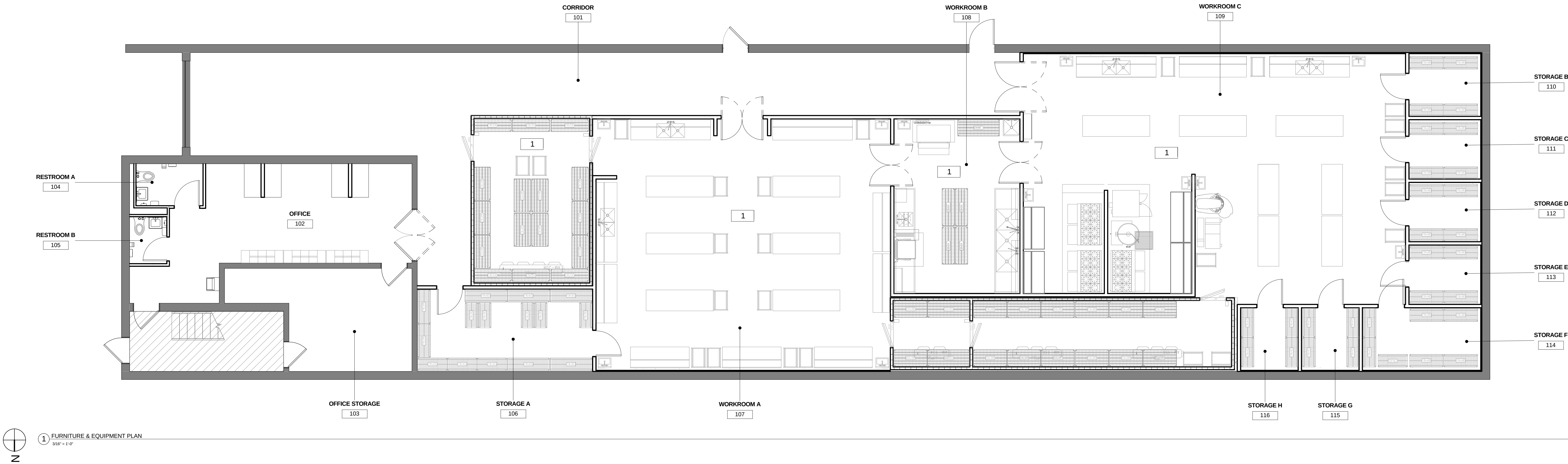
1 PARTITION PLAN
3/16" = 1'-0"



FINISH SCHEDULE					
FINISH TAG	DESCRIPTION	MANUFACTURER	PRODUCT	COLOR	COMMENTS
ACOUSTIC CEILING TILE					
ACT1	ACOUSTIC CEILING TILE	ARMSTRONG	CLEAN ROOM VL. SQUARE LAY-IN TILE	WHITE	WITH 15/16" GRID
BASE					
B1	VINYL WALL BASE	ARMSTRONG	1/4" VINYL BASE, COVE PROFILE	14 TURTLEDOVE	
CONCRETE					
C1	EXPOSED SEALED CONCRETE	RUSTOLEUM	8100 SYSTEM EPOXY FLOOR OVERKRETE 4545	CLEAR	APPLY OVER RUSTOLEUM EPOXY PRIMER/SEALER ACTIVATOR
PAINT					
P1	WALL PAINT	SHERWIN WILLIAMS	PRO INDUSTRIAL PRE-CATALYZED WATER BASED EPOXY	EXTRA WHITE	EGG-SHELL ON WALLS, SEMI-GLOSS ON DOORS & FRAMES
TILE					
T1	TILE	DALTILE	MODERN DIMENSIONS 4"X12" CERAMIC FLOOR & WALL TILE	DESERT GRAY	GROUT TO MATCH
WALLCOVERING					
FRP1	FRP WALL COVERING	MARLITE	STANDARD FRP	WHITE	BELOW HOOD
M1	STAINLESS STEEL		STAINLESS STEEL WALL PANELS		

EQUIPMENT PLAN NOTES	
1	SEE KITCHEN CONSULTANT DRAWINGS FOR ALL EQUIPMENT INFORMATION

FINISH PLAN NOTES	
1	REVIEW ALL FINISHES WITH OWNER BEFORE ORDERING



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Capitol Engineering Group, LLC
1825 K Street NW
Suite 375
Washington, DC 20006
Phone: 202-216-0039
Fax: 202-216-0067

NOTES

PROFESSIONAL SEAL

Professional Certification:
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional architect under the laws of the District of Columbia.
License No: ARC5942 Exp. Date: 04/30/2014

SUBMITTALS

#	Description	Date
1	ISSUE FOR PERMIT	02/24/2014

SCRATCH DC
2619 EVARTS ST., NE
WASHINGTON, DC 20018

EQUIPMENT PLAN & FINISH PLAN

A120			
Project #	13-269	Date	FEB 24, 2014
Managed By	LW	Drawn By	MP
Scale:	3/16" = 1'-0"		

NOTES

PROFESSIONAL SEAL

Professional Certification:
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional architect under the laws of the District of Columbia.
License No: ARC5942 Exp. Date: 04/30/2014

SUBMITTALS

#	Description	Date
1	ISSUE FOR PERMIT	02/24/2014

SCRATCH DC
2618 EVARTS ST., NE
WASHINGTON, DC 20018

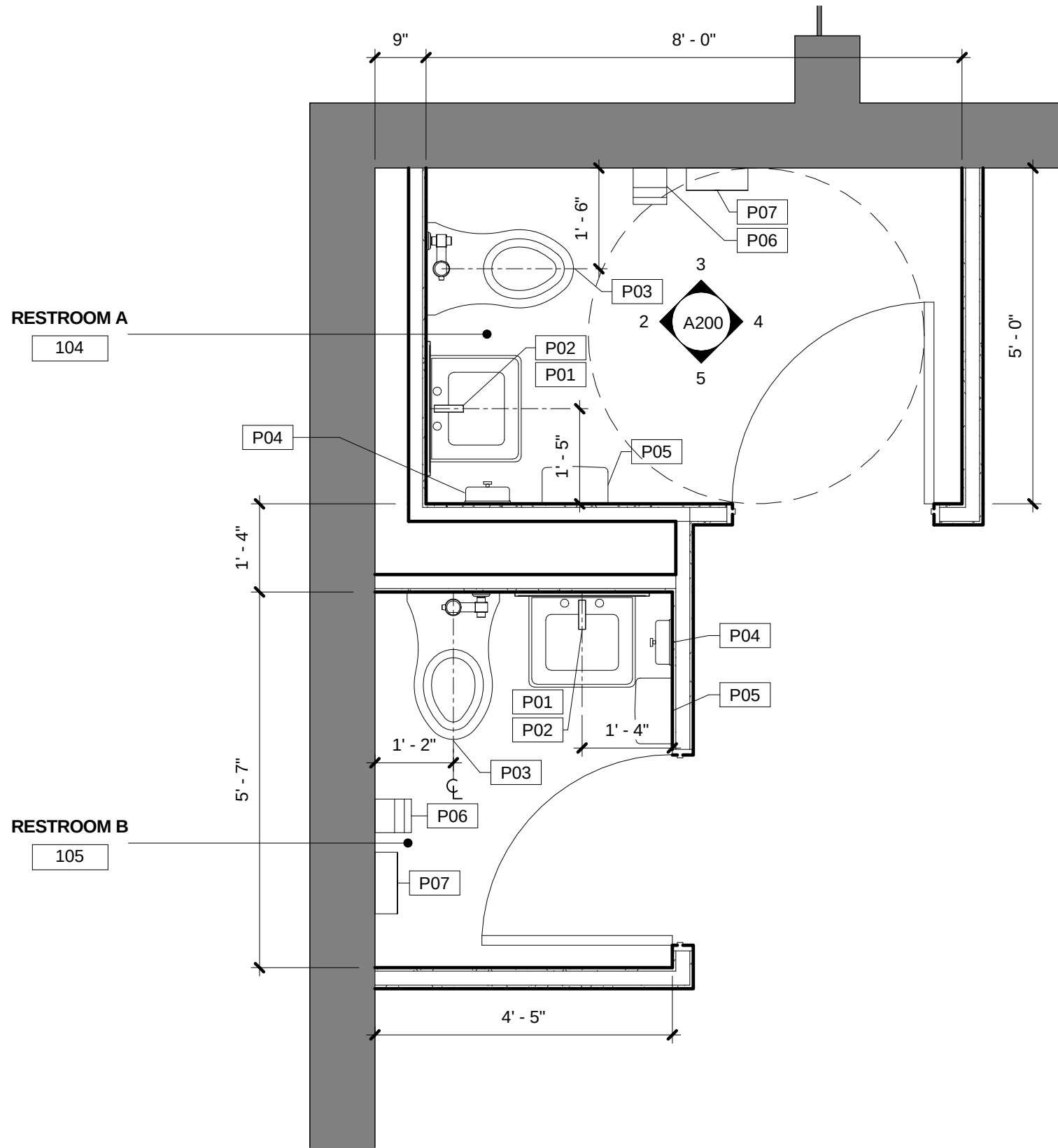
RESTROOM PLANS AND ELEVATIONS

A200

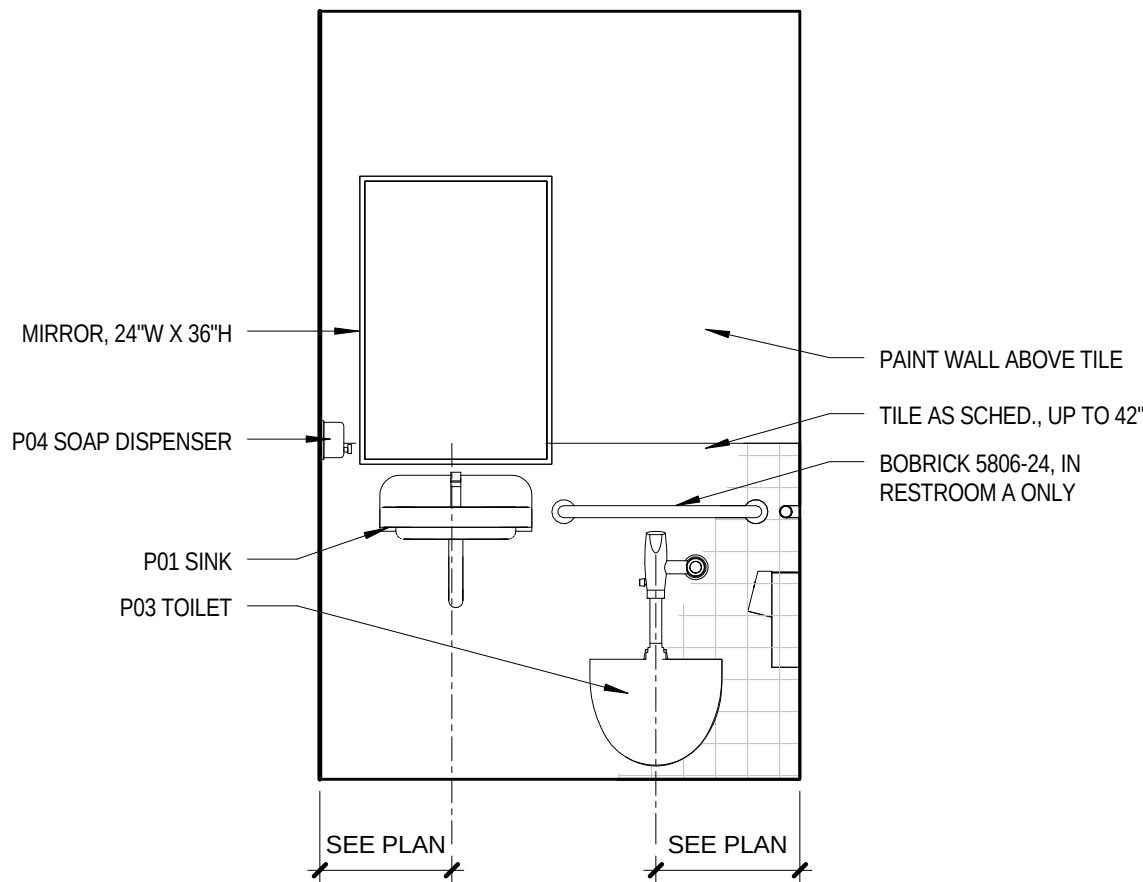
Project #	13-269	Date	FEB 24, 2014
Managed By	LW	Drawn By	MP
Scale:	1/2" = 1'-0"		

RESTROOM FIXTURE SCHEDULE

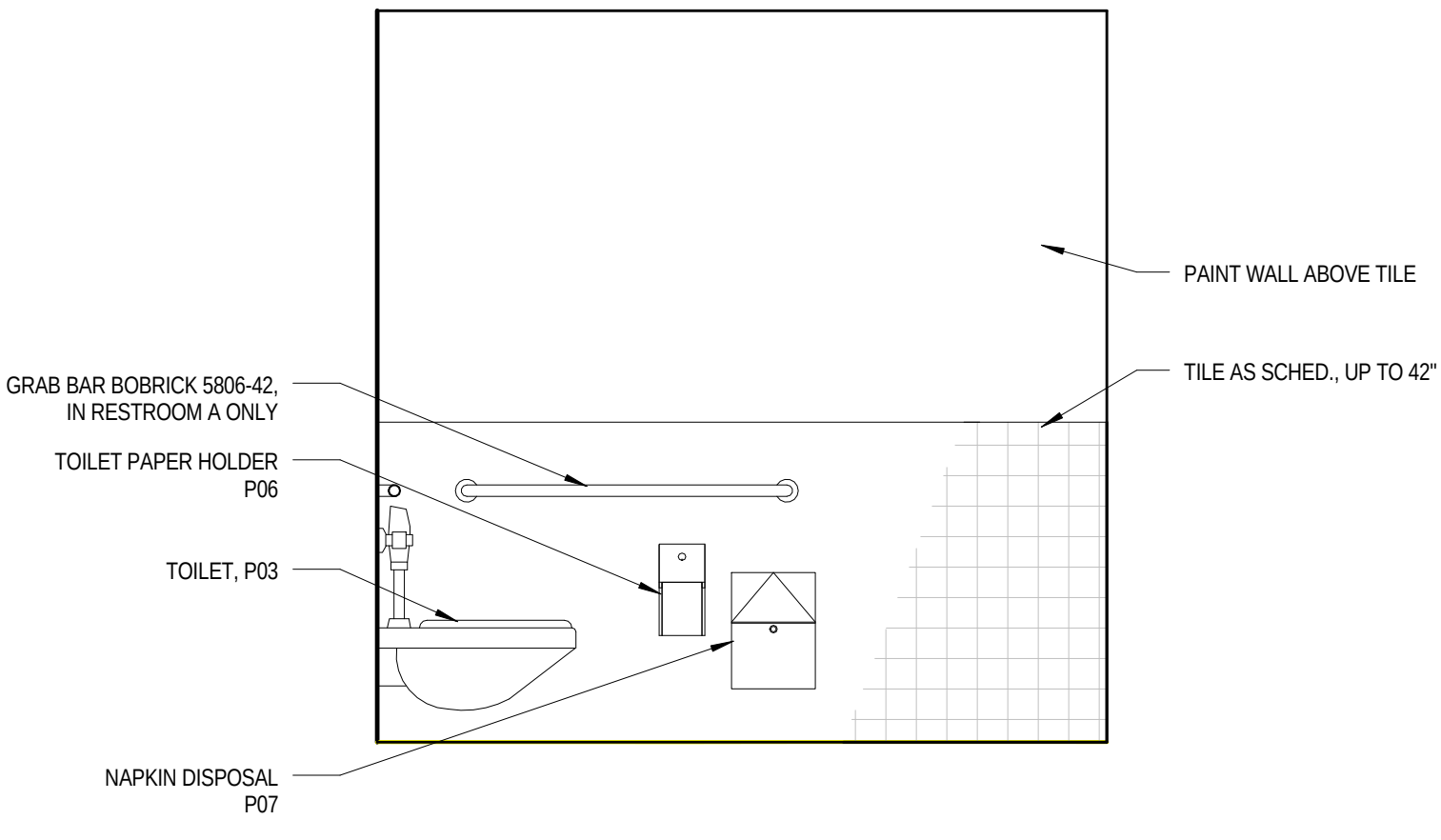
ITEM TAG	DESCRIPTION	MANUFACTURER		FINISH	COMMENTS
		NAME	MODEL #		
P01	SINK	KOHLER	SOHO 20"x18" WALL MOUNT / CONCEALED ARM CARRIER SINK	WHITE	ADA COMPLIANT
P02	FAUCET	KOHLER	GOOSENECK SINGLE-HOLE TOUCHLESS COMMERCIAL FAUCET	POLISHED CHROME	
P03	TOILET	KOHLER	HIGHLINE COMFORT HEIGHT ELONGATED TOILET W/ TOP SPUD	WHITE	ADA COMPLIANT
P04	LIQUID SOAP DISPENSER	BOBRICK	B8221		
P05	HAND DRYER	EXCEL	XL-SB 120V		
P06	TISSUE DISPENSER	ASI	OO31		
P07	NAPKIN DISPOSAL	ASI	O473-1		



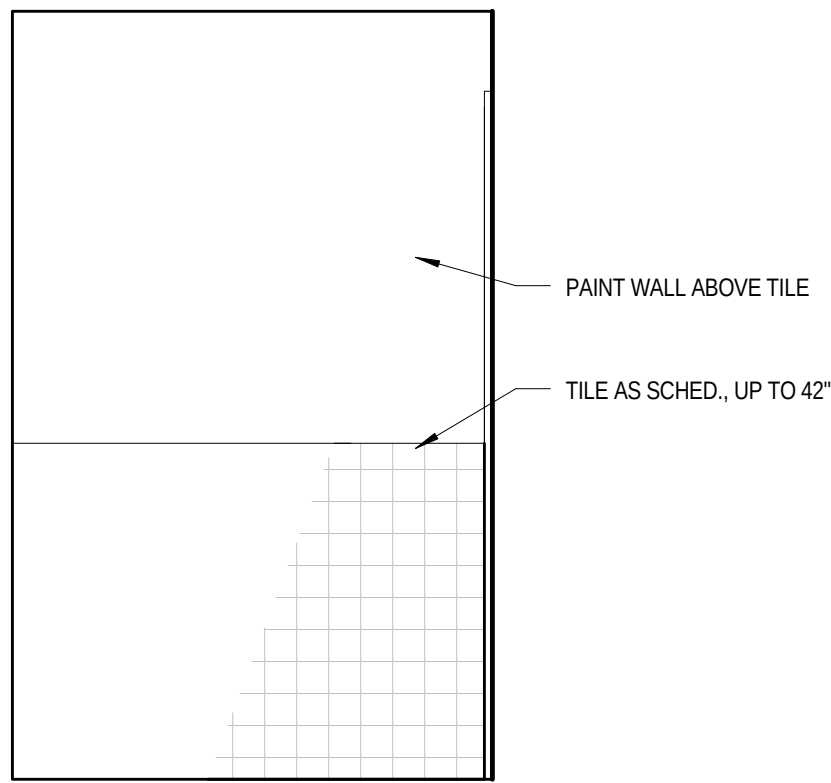
1 ENLARGED PLAN - RESTROOMS
1/2" = 1'-0"



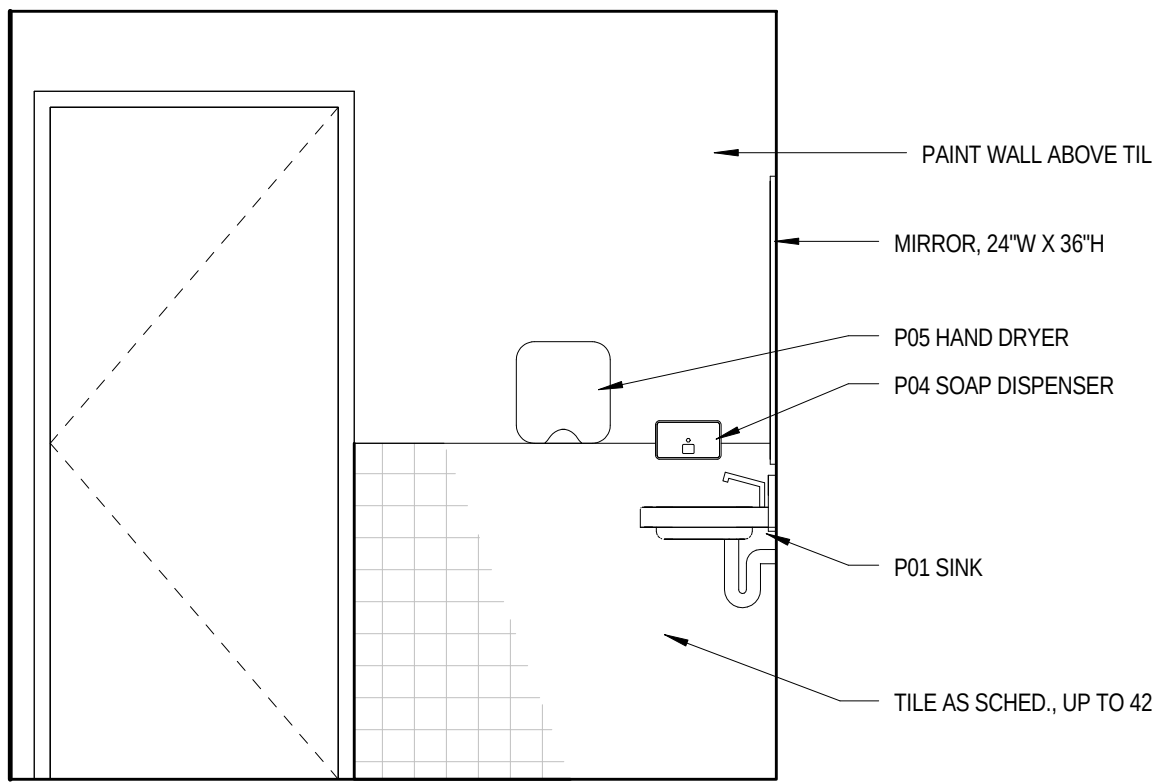
2 ELEVATION - RESTROOM NORTH
1/2" = 1'-0"



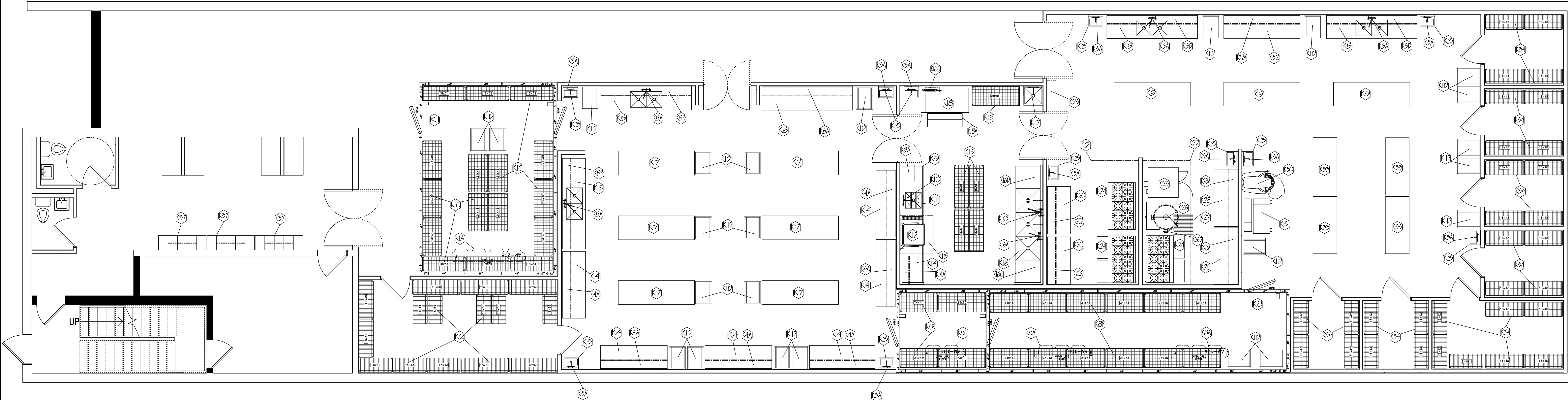
3 ELEVATION - RESTROOM EAST
1/2" = 1'-0"



4 ELEVATION - RESTROOM SOUTH
1/2" = 1'-0"



5 ELEVATION - RESTROOM WEST
1/2" = 1'-0"



SPECIFICATIONS TO BE MET FOR COMPLIANCE TO
WASHINGTON, DC HEALTH DEPARTMENT REGULATIONS

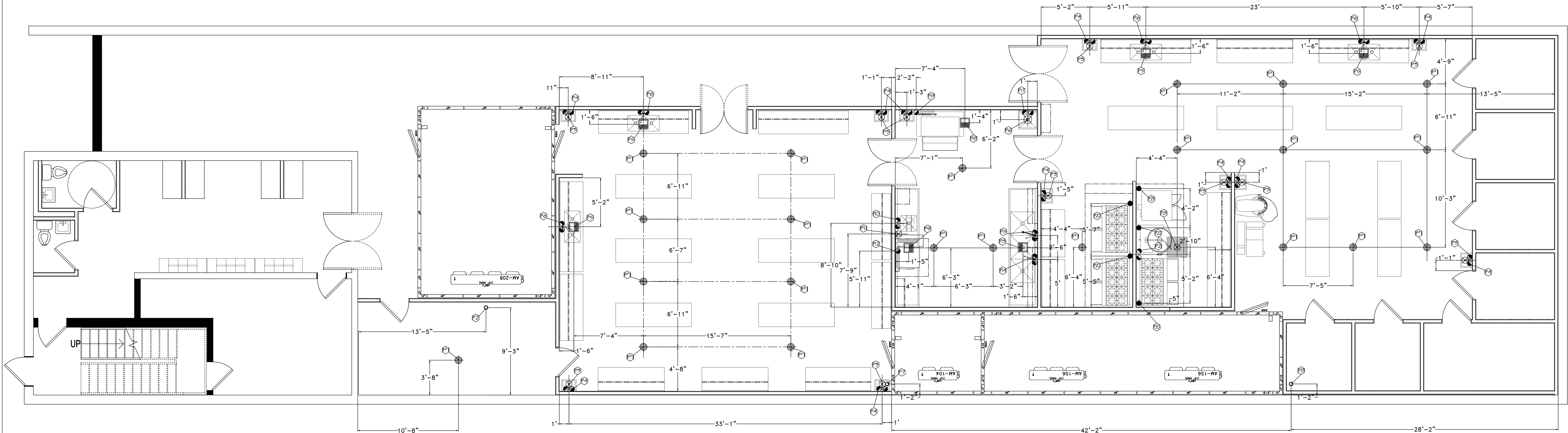
- 1) ALL FOODSERVICE AND RELATED EQUIPMENT SHALL BE NATIONAL SANITATION FOUNDATION APPROVED AND IN CONFORMITY WITH WASHINGTON, DC HEALTH DEPARTMENT REGULATIONS.
- 2) ALL PIPING, CONDUIT, BX CABLE AND SIMILAR OBJECTS WILL EITHER BE LOCATED IN A WALL OR HAVE 3/4" STAND OFF BRACKETS.
- 3) A MINIMUM OF 50 FOOT CANDLES OF SHIELDED LIGHT SHALL BE PROVIDED ON ALL WORK SURFACES, STORAGE AREAS, FOOD PREP AREAS, UTENSIL WASHING AREAS, TOILET ROOMS, LOCKER ROOMS AND RUBBISH STORAGE AREAS.
- 4) ALL RESTROOM DOORS SHALL BE SELF CLOSING.
- 5) ALL RESTROOMS SHALL BE EQUIPPED WITH MECHANICAL EXHAUST VENTILATION AT A MINIMUM RATE OF 2 CFM/SQ FT AND EXHAUST DIRECTLY TO THE OUTSIDE - CONTROLLED BY LIGHT SWITCH.
- 6) ALL FLOOR MOUNTED EQUIPMENT TO BE PLACED ON 6" NSF APPROVED LEGS, PROPERLY SPACED FROM ADJOINING EQUIPMENT OR WALLS, ON NSF CASTERS OR PROPERLY SEALED TO ADJOINING SURFACES.
- 7) ALL DOORS TO THE OUTSIDE WILL BE SELF-CLOSING AND BE RODENT PROOF.
- 8) ALL COUNTER EQUIPMENT WEIGHING IN EXCESS OF 80 LBS. TO BE ON 4" NSF LEGS.
- 9) ALL EXPOSED RAW WOOD WILL BE SEALED.
- 10) ALL ANNULAR OPENINGS IN CONSTRUCTION WILL BE SEALED TO WITHIN 1/32".
- 11) ALL AISLES TO BE A MINIMUM OF 30" PER NFPA 101.
- 12) ALL OUTSIDE STORAGE OF REFUSE TO BE IN RODENT PROOF CONTAINERS ON A PAVED SURFACE.
- 13) ALL SINK INSTALLATIONS TO HAVE HOT AND COLD WATER RUNNING THROUGH A MIXING VALVE OR COMBINATION FAUCET.
- 14) ALL HAND SINKS TO BE EQUIPPED WITH SOAP & PAPER TOWEL DISPENSER - BY OTHERS.
- 15) ALL PAINT WILL BE LEAD FREE, NON-METALLIC ENAMEL OR A HIGH QUALITY VARNISH.
- 16) ALL FOODSERVICE & RELATED EQUIPMENT SHALL BE INSTALLED TO NSF STANDARDS.
- 17) LIGHTS THROUGH-OUT KITCHEN AND ALL FOODSERVICE AREAS SHALL CONSIST OF RECESSED OR FLUSH SURFACE MOUNTED PLASTIC COVERED FLUORESCENT FIXTURES LOCATED AS INDICATED ON PLANS - ALL ARTIFICIAL LIGHTING FIXTURES SHALL BE PROVIDED WITH PROTECTIVE SHIELDING IN FOOD PREP, SERVICE AND STATION AREAS, ALL REFRIGERATED UNITS, UTENSIL AND EQUIPMENT WASH AREAS.
- 18) ALL CUTTING BOARDS AND WORK SURFACES SHALL BE OF NON-WOOD CONSTRUCTION AND NSF APPROVED.
- 19) METAL LOCKERS SHALL BE PROVIDED FOR EMPLOYEE CLOTHING STORAGE AND BE LOCATED AS PER PLAN.
- 20) THE HOT WATER HEATER FOR THE FOODSERVICE EQUIPMENT SHALL BE SIZED FOR THE MAXIMUM DEMAND OF ALL PLUMBING FACILITIES USING HOT WATER.
- 21) THE PREMISES SHALL BE MECHANICALLY VENTILATED - SUMMER/WINTER AND SHALL PROVIDE 2 CFM/SQ FT OF FLOOR AREA.
- 22) ALL REFRIGERATED EQUIPMENT AND EQUIPMENT FOR HOT FOOD STORAGE SHALL HAVE THERMOMETERS THAT ARE EASILY READABLE, IN PROPER WORKING CONDITION AND ACCURATE WITHIN A RANGE OF PLUS OR MINUS 2 DEGREE FAHRENHEIT.
- 23) A JANITORIAL SINK WITH A 3" DRAIN SHALL BE INSTALLED AND LOCATED AS PER PLAN.
- 24) HOOD AND DUCT INSTALLATION SHALL BE EQUIPPED WITH AN AUTOMATIC FIRE EXTINGUISHING SYSTEM.
- 25) DRIP PANS SHALL BE PROVIDED UNDER ALL SEWER LINES WHICH TRAVERSE THE CEILING OF ROOMS OR AREAS IN WHICH FOOD OR BEVERAGE ARE STORED, SERVED OR PREPARED, OR IN WHICH UTENSILS ARE WASHED OR STORED. THE INSTALLATION OF SAME SHALL BE IN CONFORMITY WITH PLUMBING CODE AND SHALL BE CONTAINED ABOVE THE FINISHED CEILINGS OF THE ROOMS OR AREAS IN WHICH THEY OCCUR.
- 26) BAR DIE TO BE COVERED ON INSIDE WITH PLASTIC LAMINATE - BAR TOP TO BE SEALED - ALL OTHER EXPOSED SURFACES TO BE COVERED IN PLASTIC LAMINATE.

REVISIONS

DATE	No	DESCRIPTION

FOOD SERVICE
EQUIPMENT
PLAN

SCALE: 1/4"=1'-0"
DRAWN BY: JZK
DATES: 1-18-14



PLUMBING ROUGH-INS

- P1 FLOOR DRAIN W/FULL GRATE
P2 O.S. DRAIN FOR 3/4" CONDENSATE DRAIN FROM WALK-IN COOLER COIL (ITEM #K-1A)
P3 1-1/2" DIRECT DRAIN FOR HAND SINK (ITEM #K-3), STUB UP OUT OF WALL +16" AFF.
P4 1/2" H.W. & C.W. (4" O.C.) FOR HAND SINK FAUCET (ITEM #K-3A), STUB UP OUT OF WALL +18" AFF.
P5 FLOOR SINK FOR (2) 2" PREP SINK DRAINS (ITEM #K-5)
P6 1/2" H.W. & C.W. (8" O.C.) FOR DECK MOUNTED PREP SINK FAUCET (K-5A)
STUB UP OUT OF WALL +18" AFF.
P7 O.S. DRAIN FOR 3/4" CONDENSATE DRAIN FROM WALK-IN FREEZER COIL (ITEM #K-8C)
P8 O.S. DRAIN FOR (2) 3/4" CONDENSATE DRAINS FROM WALK-IN COOLER COILS (ITEM #K-8A)
P9 FLOOR SINK FOR 1" DISHABLE DRAIN TROUGH (ITEM #K-9) AND 2" DISHWASHER DRAIN (ITEM #K-12)
VERIFY ANY REQUIREMENTS FOR GREASE TRAP W/MEP PLANS
P10 1/2" H.W. & C.W. (4" O.C.) FOR PRE-RINSE SPRAY (ITEM #K-10) AND 1/2" C.W. FOR DISPOSAL (ITEM #K-11), STUB UP OUT OF WALL +18" AFF.
PLUMBER TO INTERPIPE DISPOSAL W/SOLENOID VALVE AND VACUUM BREAKER.
P11 2" DIRECT DRAIN FOR DISPOSAL (ITEM #K-11), STUB UP OUT OF WALL +12" AFF.
P12 1/2" H.W. (MINIMUM 140 DEGREES) FOR DISHWASHER (ITEM #K-12), STUB UP OUT OF WALL +72" AFF.
P13 FLOOR SINK FOR (3) 2" DRAINS FROM THREE COMPARTMENT SINK (ITEM #K-16)
VERIFY ANY REQUIREMENTS FOR GREASE TRAP W/MEP PLANS
P14 1/2" H.W. & C.W. (8" O.C.) FOR SINK FAUCET (ITEM #K-16A), STUB UP OUT OF WALL +12" AFF.
P15 1/2" H.W. & C.W. (8" O.C.) FOR SINK FAUCET (ITEM #K-16B), STUB UP OUT OF WALL +12" AFF.
P16 3" DRAIN THROUGH SLAB FOR JANITORIAL SINK (ITEM #K-17)
P17 1/2" H.W. & C.W. (8" O.C.) FOR JANITORIAL SINK FAUCET (ITEM #K-17), STUB UP OUT OF WALL +36" AFF.
P18 3/4" C.W. FOR ICE MAKER WATER FILTER (ITEM #K-18C), STUB UP OUT OF WALL +106" AFF.
PLUMBER TO PIPE FROM WATER FILTER OUTLET TO ICE MAKER INLET (ITEM #K-18)
P19 FLOOR SINK FOR 1/2" ICE MAKER DRAIN (ITEMS #K-18), & 1" ICE BIN DRAIN (ITEMS #K-18B)
P20 1" GAS, 406,000 BTU'S FOR RANGES (ITEM #K-24), STUB UP OUT OF WALL +18" AFF.
P21 1/2" H.W. & C.W. (4" O.C.) FOR FILL FAUCET (ITEM #K-26B), STUB UP OUT OF WALL +18" AFF.
P22 3/4" GAS, 120,000 BTU'S FOR KETTLE (ITEM #K-26), STUB UP OUT OF WALL +18" AFF.
P23 1" GAS, 140,000 BTU'S EACH, FOR CONVECTION OVEN (ITEM #K-25), STUB UP OUT OF WALL +18" AFF.
P24 3" DIRECT CONECTION IN SLAB FOR FLOOR TROUGH (ITEM #K-27)

PLUMBING NOTES

- ALL WORK TO BE DONE IN ACCORDANCE WITH ALL LOCAL CODES.
- PLUMBER TO SUPPLY AND INSTALL SHUT OFF VALVES ON ALL ROUGH-INS PRIOR TO POINT OF CONNECTION.
- PLUMBER TO INTERPIPE DISPOSAL WITH SOLENOID VALVE AND VACUUM BREAKER.
- PLUMBER TO INSTALL PRESSURE REGULATING VALVE - IN MAIN GAS LINE PER MANUFACTURER'S SPECIFICATIONS.
- ALL PIPES TO BE CONCEALED IN WALLS.
- NOTIFY JRS ASSOCIATES, INC. OF ANY DISCREPANCIES TO SITE CONDITIONS OR ANY OTHER PLANS PRIOR TO TAKING ACTION IN THE FIELD.
- ALL DIMENSIONS ARE FROM FINISHED WALL SURFACES.
- PLUMBER TO VERIFY WITH MECHANICAL PLANS & ENGINEER ANY REQUIREMENTS FOR GREASE TRAPS OR INTERCEPTORS FOR ALL THREE COMPARTMENT SINKS AND DISHWASHERS.
- PLUMBER TO SUPPLY AND INSTALL ELECTRIC SOLENOID VALVE IN MAIN GAS VALVE PRIOR TO COOKING EQUIPMENT FOR FIRE SUPPRESSION SYSTEM.
- PLUMBER TO SUPPLY AND INSTALL ALL NECESSARY ANTI-SYPHON VALVES.
- PLUMBER TO SUPPLY AND INSTALL HOT WATER HEATER AS PER MECHANICAL PLAN.
- PLUMBER TO PIPE ANY WALK-IN COIL DRAINS AND INSULATE DRAIN LINE IN FREEZER AFTER ELECTRICIAN INSTALLS HEAT TAPE.
- PLUMBER TO SUPPLY AND INSTALL HOSE BIB WITH ANTI-SYPHON VALVE ON ALL HAND SINKS.
- PLUMBER TO INTERPIPE BOOSTER HEATER TO 3/4" DISHWASHER INLET.
- ITEMS NOT SHOWN ON OUR PLANS INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:
A) ANY REQUIREMENTS OF MECHANICAL EQUIPMENT - INCLUDING HOT WATER HEATER.
B) SPRINKLER DRAWINGS.
C) H.V.A.C. DRAWINGS.
D) WATER AND DRAIN RISER DIAGRAM.
E) STEAM GENERATOR DRAWINGS.
- PLUMBER TO SUPPLY AND INSTALL ELECTRIC SOLENOID VALVE IN MAIN GAS VALVE PRIOR TO COOKING EQUIPMENT

NOTE: ALL ROUGH-INS AND FINAL CONNECTIONS TO BE BY PLUMBER AND
INSTALL AND ASSEMBLE ALL FAUCETS AND DRAIN FITTINGS

REVISIONS

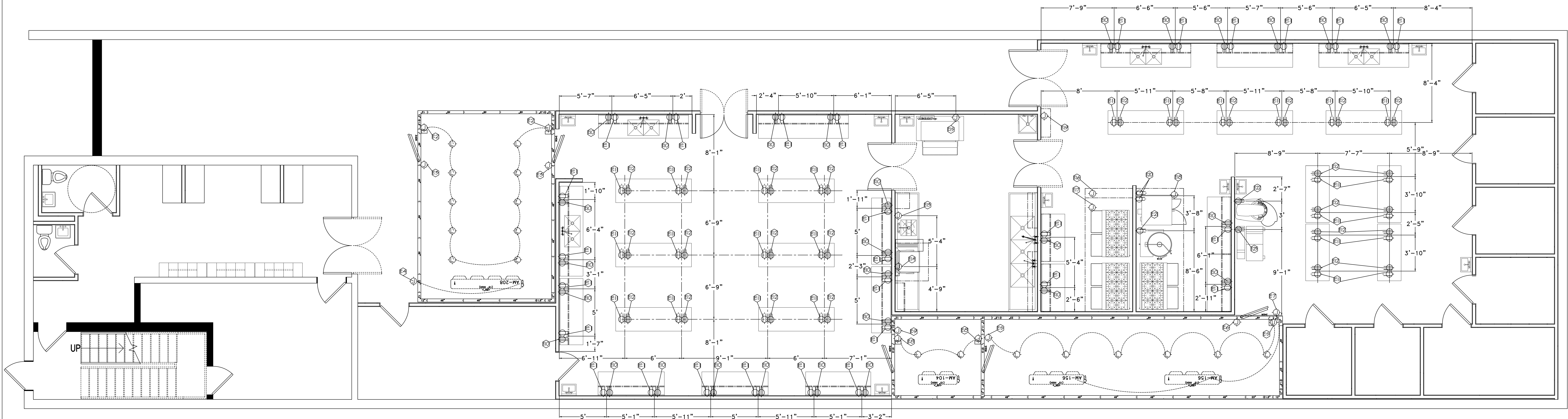
DATE	No	DESCRIPTION

FOOD SERVICE
EQUIPMENT
PLUMBING ROUGH-IN
PLAN

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

DRAWN BY: JZK
DATES: 1-18-14

K-3



- **** DENOTES ITEMS UNDER HOODS
- ELECTIC RUGH-INS**
- E1 115V-1PH, 20.0 AMPS, CONVENIENCE DUPLEX RECEPTACLE, +48\"AFF.
- E2 115V-1PH, 1.125 KW, J.BOX, DIRECT CONNECTION TO WALK-IN COOLER COMPRESSOR (ITEM #K-1), STUB DOWN FROM ABOVE. ELECTRICIAN TO MOUNT AND INTERWIRE (10) EXTRA LIGHTS TO SWITCH ON DOOR PANEL.
- E3 115V-1PH, 5.0 AMPS, J.BOX, DIRECT CONNECTION TO PRESSURE RELIEF PORT ON WALK-IN DOOR PANELS (ITEM #K-1), STUB DOWN FROM ABOVE.
- E4 115V-1PH, 7.2 AMPS, J.BOX, DIRECT CONNECTION TO TIME CLOCK MOUNTED ON EXTERIOR OF WALK-IN COOLER (ITEM #K-1) AT CEILING LINE. STUB DOWN FROM ABOVE. ELECTRICIAN TO INTERWIRE FROM TIME CLOCK TO WALK-IN BEER COOLER COIL (ITEM #K-1A) AND INTERWIRE W/THERMOSTAT AND SOLENOID VALVE.
- E5 115V-1PH, 1.125 KW, J.BOX, DIRECT CONNECTION TO WALK-IN COOLER LIGHTS (ITEM #K-9), STUB DOWN FROM ABOVE. ELECTRICIAN TO MOUNT AND INTERWIRE (6) EXTRA LIGHTS TO SWITCH ON DOOR PANEL.
- E6 115V-1PH, 5.0 AMPS, J.BOX, DIRECT CONNECTION TO PRESSURE RELIEF PORT ON WALK-IN DOOR PANELS (ITEM #K-8), STUB DOWN FROM ABOVE.
- E7 115V-1PH, 203.9 AMPS, J.BOX, DIRECT CONNECTION TO TIME CLOCK MOUNTED ON EXTERIOR OF WALK-IN COOLER (ITEM #K-8) AT CEILING LINE. STUB DOWN FROM ABOVE. ELECTRICIAN TO INTERWIRE FROM TIME CLOCK TO WALK-IN BEER COOLER COIL (ITEM #K-8A) AND INTERWIRE W/THERMOSTAT AND SOLENOID VALVE.
- E8 115V-1PH, 1.125 KW, J.BOX, DIRECT CONNECTION TO WALK-IN FREEZER LIGHTS (ITEM #K-8), STUB DOWN FROM ABOVE. ELECTRICIAN TO MOUNT AND INTERWIRE (2) EXTRA LIGHTS TO SWITCH ON DOOR PANEL.
- E9 115V-1PH, 5.0 AMPS, J.BOX, DIRECT CONNECTION TO PRESSURE RELIEF PORT ON WALK-IN DOOR PANELS (ITEM #K-8), STUB DOWN FROM ABOVE.
- E10 208V-3PH, 2.8 AMPS, RECEPTACLE FOR FOOD PROCESSORS, +48\"AFF. ELECTRICIAN TO SUPPLY AND INSTALL CORD AND PLUG SET.
- E11 115V-1PH, 20.0 AMPS, CONVENIENCE DUPLEX RECEPTACLE, CORD AND RECEPTACLE HANGING FROM CEILING TO A HEIGHT OF 72\"AFF.
- E12 208V-3PH, 2.8 AMPS, RECEPTACLE FOR FOOD PROCESSORS, CORD AND PLUG HANGING FROM CEILING TO A HEIGHT OF 72\"AFF. ELECTRICIAN TO SUPPLY AND INSTALL CORD AND PLUG SET.
- E13 208V-3PH, 2.0 HP, J.BOX, DIRECT CONNECTION TO DISPOSAL (ITEM #K-11), +18\"AFF. ELECTRICIAN TO INTERWIRE DISPOSAL W/CONTROL PANEL AND SOLENOID VALVE.
- E14 115V-1PH, 15.0 AMPS, J.BOX, DIRECT CONNECTION TO DISHWASHER (ITEM #K-12), +72\"AFF.
- E15 208V-3PH, 15.0 AMPS, J.BOX, DIRECT CONNECTION FOR ICE MAKER (ITEM #K-18), +96\"AFF. ELECTRICIAN TO RUN 208V-1PH, 1.3 AMPS TO CONDENSER ON ROOF (ITEM #K-18B) FROM TERMINAL BLOCK ON ICE MAKER.
- E16 115V-1PH, J.BOX, DIRECT CONNECTION TO MICRO SWITCH ON FIRE SUPPRESSION SYSTEM MOUNTED ON WALL (ITEM #K-83), STUB DOWN FROM ABOVE. MICRO SWITCH CIRCUITS TO BE WIRED BACK TO HOOD CONTROL PANEL. HOOD CONTROL PANEL TO ACTIVATE THE FOLLOWING: ELECTRICIAN TO INTERWIRE TO FIRE SUPPRESSION SYSTEM (ITEM #K-21)
- A) ALL GAS TO TURN OFF
- B) ALL ELECTRIC UNDER HOOD TO TURN OFF
- C) EXHAUST FAN TO TURN ON OR STAY ON
- D) MAKE-UP AIR FAN TO TURN OFF OR STAY OFF
- E) BUILDING FIRE ALARM AND/OR ANNUNCIATOR PANEL TO BE ACTIVATED AS PER LOCAL CODE.
- **** E17 115V-1PH, .75 KW, J.BOX, DIRECT CONNECTION TO HOOD LIGHTS (ITEM #K-21), STUB DOWN FROM ABOVE
- **** E18 115V-1PH, .75 KW, J.BOX, DIRECT CONNECTION TO HOOD LIGHTS (ITEM #K-22), STUB DOWN FROM ABOVE
- E19 ELECTRICIAN TO WIRE HOOD CONTROL PANEL AS PER MECHANICAL PLANS. STUB DOWN FROM ABOVE. ELECTRICIAN TO INTERWIRE LIGHTS AND HEAT SENSORS ON HOOD W/CONTROL PANEL.
- **** E20 115V-1PH, 9.8 AMPS EACH, RECEPTACLES FOR CONVECTION OVENS (ITEM #K-25), +36\"AFF.
- **** E21 115V-1PH, 10.0 AMPS, RECEPTACLE FOR KETTLES (ITEM #K-26), +18\"AFF.
- E22 208V-3PH, 10.0 AMPS, RECEPTACLE FOR MIXER (ITEM #K-30), +48\"AFF. ELECTRICIAN TO SUPPLY AND INSTALL CORD AND PLUG SET.
- E23 208V-1PH, 7.0 AMPS, RECEPTACLE FOR COOKIE DEPOSITOR (ITEM #K-31), +48\"AFF. ELECTRICIAN TO SUPPLY AND INSTALL CORD AND PLUG SET.

- ELECTRIC RUGH-INS ON ROOF**
- E30 208V-3PH, 21.0 AMPS, J.BOX, DIRECT CONNECTION TO WALK-IN COOLER COMPRESSOR (ITEM #K-18)
- E31 208V-3PH, 21.0 AMPS, J.BOX, DIRECT CONNECTION TO WALK-IN COOLER COMPRESSOR (ITEM #K-8B)
- E32 208V-3PH, 14.0 AMPS, J.BOX, DIRECT CONNECTION TO WALK-IN FREEZER COMPRESSOR (ITEM #K-8D) ELECTRICIAN TO RUN (9) #12 WIRES FROM COMPRESSOR ON ROOF TO WALK-IN FREEZER COIL (ITEM #K-8D) AND INTERWIRE WITH SOLENOID VALVE AND THERMOSTAT ON COIL
- E33 208V-1PH, 1.3 AMPS, J.BOX, DIRECT CONNECTION TO UCE MAKER CONDENSER (ITEM #K-18B) FROM ICE MAKER HEAD

ELECTRICIAN TO DO ALL NECESSARY RUGH-INS AND FINAL CONNECTIONS AFTER EQUIPMENT IS SET IN PLACE.

ELECTRICAL NOTES

- ALL WORK TO BE DONE IN ACCORDANCE WITH ALL LOCAL CODES.
- ELECTRICIAN TO SUPPLY AND INSTALL ALL NECESSARY STARTERS, DISCONNECTS, CONTACTORS AND SHUNT TRIP BREAKERS.
- ELECTRICIAN TO INTERWIRE DISPOSAL WITH START/STOP STATION AND SOLENOID VALVE.
- ELECTRICIAN TO VERIFY ALL REQUIREMENTS FOR OWNER'S SECURITY SYSTEM AND REGISTER SYSTEM WITH OWNER/ELECTRICAL PLANS.
- NOTIFY JRS ASSOCIATES, INC. OF ANY DISCREPANCIES BETWEEN THESE PLANS, SITE CONDITIONS OR ANY OTHER PLANS PRIOR TO TAKING ACTION IN THE FIELD.
- ALL DIMENSIONS ARE FROM FINISHED WALL SURFACES.
- ELECTRICIAN TO SUPPLY AND INSTALL HEAT TAPE ON DRAIN LINE IN WALK-IN FREEZER.
- THE FOLLOWING ITEMS ARE AMONG ITEMS NOT REFLECTED ON THE FOODSERVICE DRAWINGS PROVIDED BY JRS ASSOCIATES, INC:
 - FIRE ALARM DETAILS.
 - OWNER'S REGISTER SYSTEM - COMPLETE WITH COMMUNICATION CABLE LAY-OUT
 - STEREO SYSTEM SHOWING SPEAKER LAY-OUT AND WIRING DETAILS.
 - OWNER'S SECURITY SYSTEM.
 - TELEPHONE SYSTEM.
 - ELECTRIC REQUIRED BY MILLWORK, SIGNAGE AND MENU SYSTEMS.
 - LIGHTING.
 - PANEL SCHEDULE.
 - POWER RISER DRAWING.
 - POWER REQUIREMENTS FOR ANY H.V.A.C. EQUIPMENT OR HOT WATER HEATER.
 - POWER REQUIREMENTS FOR OFFICE, REGISTER SYSTEM, CPU IN OFFICE AND PUBLIC AREAS.
- ELECTRICIAN TO SUPPLY AND INSTALL DISCONNECT SWITCHES IN WALK-IN PRIOR TO CONNECTING TO COILS.
- ELECTRICIAN TO INTERWIRE SECOND GAS SOLENOID VALVE (SUPPLIED BY PLUMBER) W/EXHAUST FAN CIRCUIT TO SHUT SOLENOID WHEN FAN IS TURNED OFF.

REVISIONS

DATE	No	DESCRIPTION

**FOOD SERVICE
EQUIPMENT
ELECTRIC RUGH-IN
PLAN**

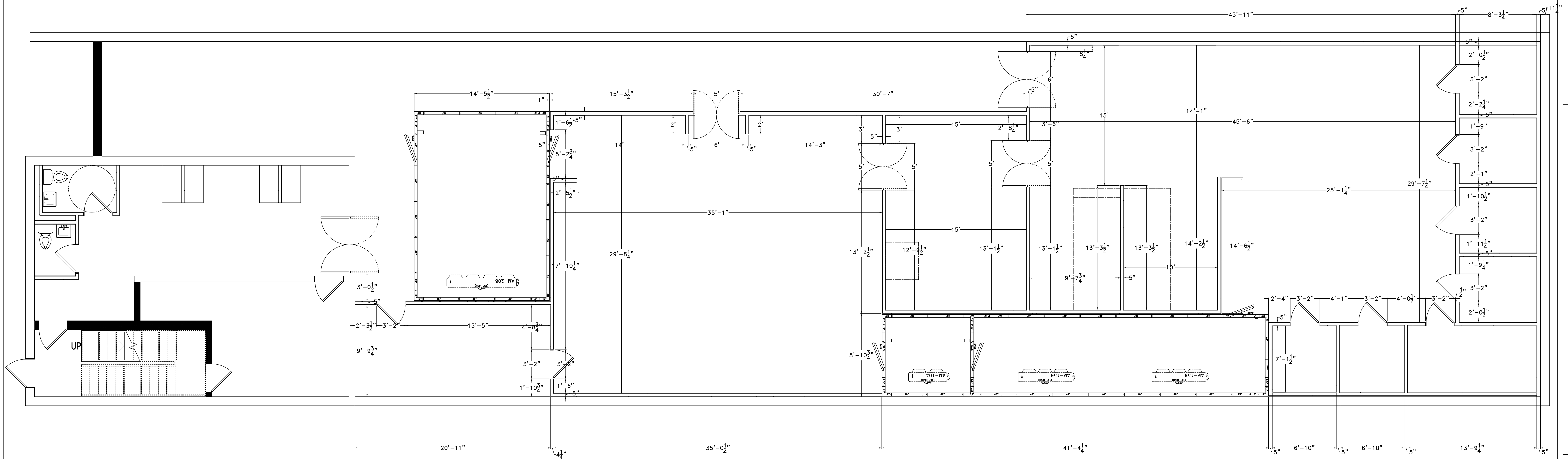
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DRAWN BY: JZK
DATES: 1-18-14

K-4

SCRATCH DC

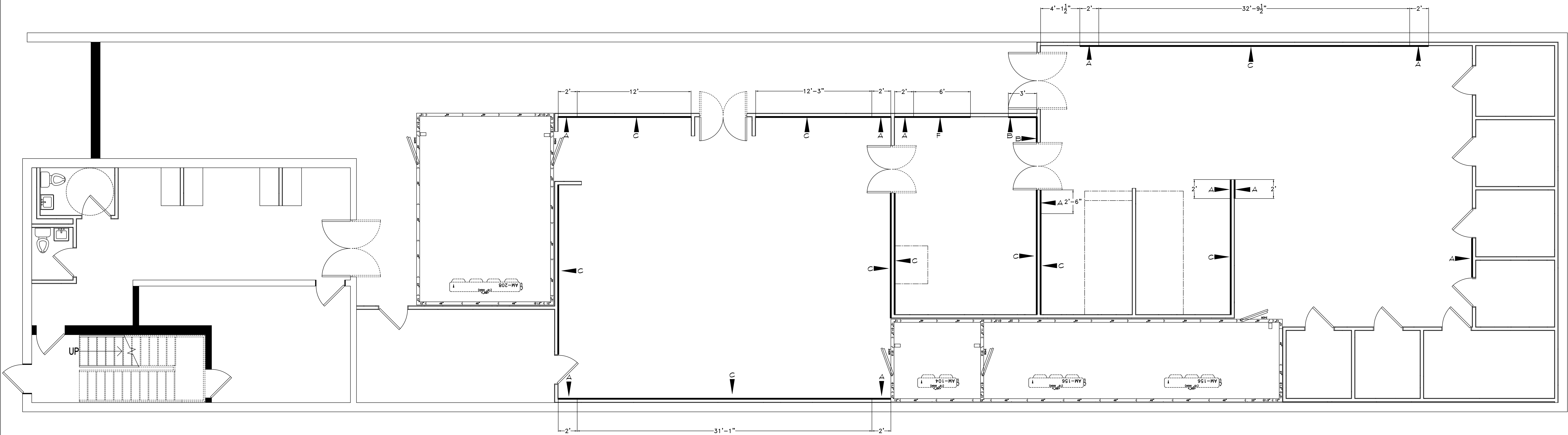
2916 EVARTS ST, NE
WASHINGTON, DC

[illegible]

FOOD SERVICE
EQUIPMENT
PARTITION
PLAN

SCALE:1/4"=1'-0"	
DRAWN BY: JZK	
DATES: 1-18-14	

1



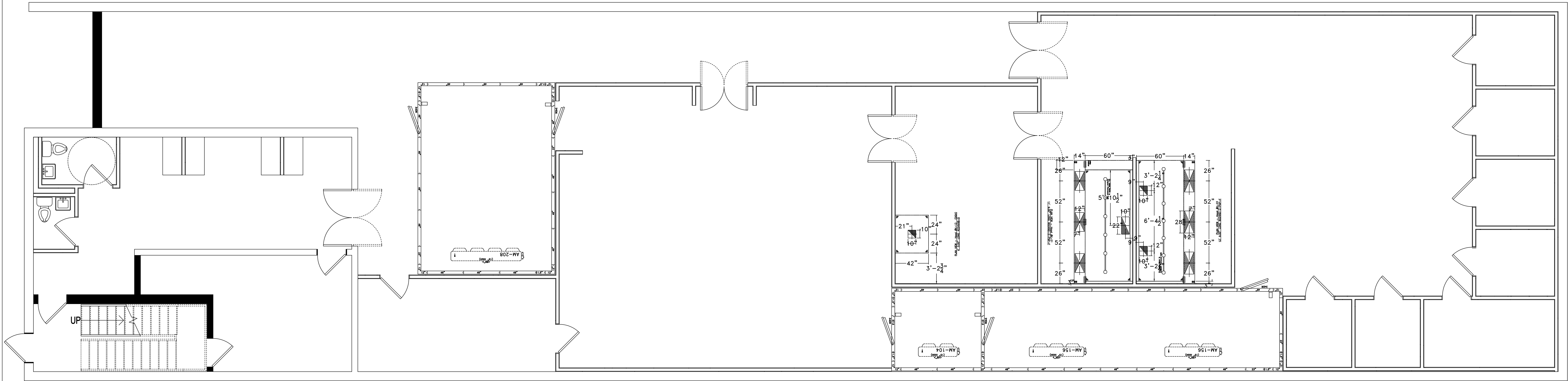
WALL BLOCKING SCHEDULE (FIRERATED)

- A) WALL BACKING BETWEEN 24" AFF AND CEILING
- B) WALL BACKING BETWEEN FLOOR AND CEILING
- C) WALL BACKING BETWEEN 36" AFF AND 96" AFF
- D) WALL BACKING BETWEEN 36" AFF AND 48" AFF
- E) WALL BACKING BETWEEN 12" AFF AND CEILING
- F) WALL BACKING BETWEEN 60" AFF AND CEILING
- G) WALL BACKING BETWEEN 30" AFF AND COUNTER TOP
- H) WALL BACKING BETWEEN 36" AFF AND 96" AFF

REVISIONS		
DATE	No	DESCRIPTION

FOOD SERVICE
EQUIPMENT
WALL BLOCKING
PLAN

SCALE:1/4"=1'-0"
DRAWN BY: JZK
DATES: 1-18-14



HOOD INFORMATION

HOOD NO.	TAG	MODEL	LENGTH	MAX. COOKING TEMP.	TOTAL EXH. CFM	EXHAUST PLENUM RISER(S)					TOTAL SUPPLY CFM	HOOD CONSTRUCTION	HOOD CONFIG.	
						WIDTH	LENG.	DIA.	CFM	S.P.			END TO END	ROW
K-13	DISH	4224 VHB-G	4' 0.00"	700 Deg.	600	10"	10"		600	-0.075"	0	430 SS 100%	ALONE	ALONE
K-21		6024 ND-2-PSP-F	11' 9.00"	600 Deg.	2350	10"	22"		2350	-0.690"	1880	430 SS Where Exposed	ALONE	ALONE
K-22		6024 ND-2-PSP-F	12' 9.00"	600 Deg.	2550	10"	12"		1275	-0.534"	2040	430 SS Where Exposed	ALONE	ALONE

HOOD INFORMATION

HOOD NO.	TAG	TYPE	FILTER(S)			LIGHT(S)			WIRE GUARD	LOCATION	UTILITY CABINET(S)			FIRE SYSTEM PIPING	HOOD WGHIT
			QTY.	HEIGHT	LENGTH	QTY.	TYPE				TYPE	SIZE	MODEL #	QUANTITY	
K-13	DISH					0									143 LBS
K-21		Captrate Solo Filter	7	20"	20"	6	Screw In Compact	NO	Left	Ansul R102		3.0/3.0/3.0		YES	682 LBS
K-22		Captrate Solo Filter	2	20"	16"	7	Screw In Compact	NO						YES	703 LBS

HOOD OPTIONS

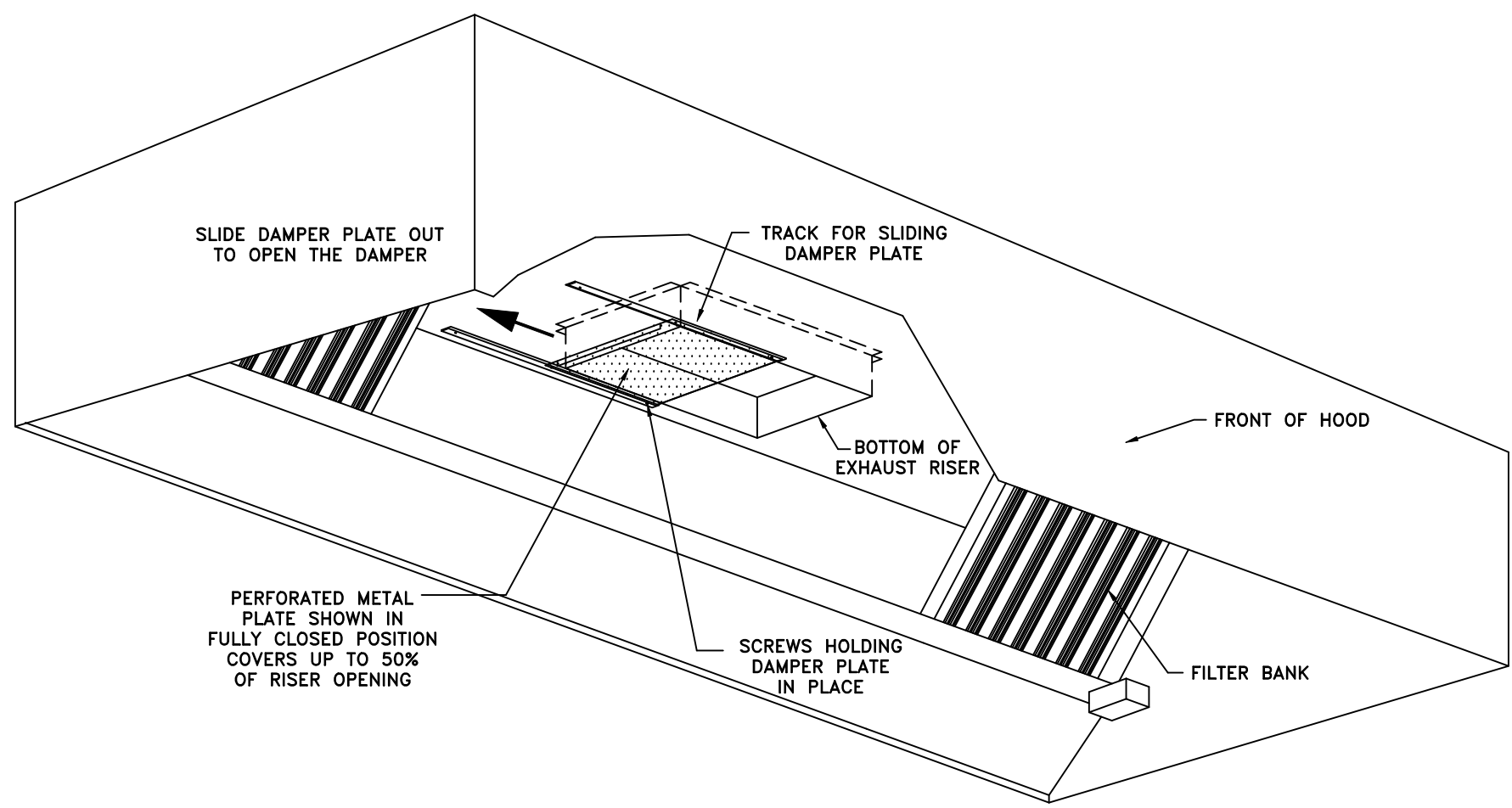
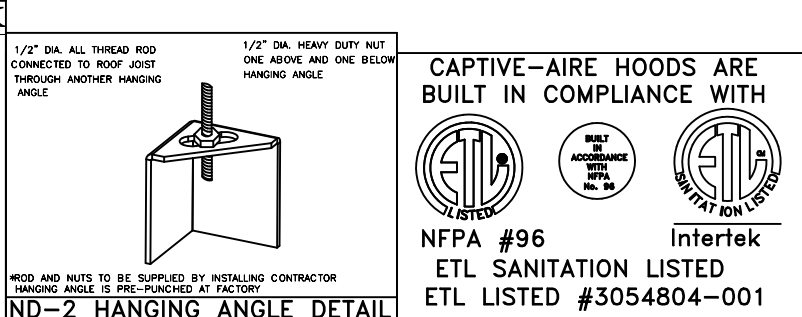
HOOD NO.	TAG	OPTION
K-21		RIGHT END STANDOFF 3" Wide 60" Long
		BALANCE DAMPERS
		STRUCTURAL FRONT PANEL
K-22		LEFT END STANDOFF 3" Wide 60" Long
		BALANCE DAMPERS
		STRUCTURAL FRONT PANEL

PERFORATED SUPPLY PLENUM(S)

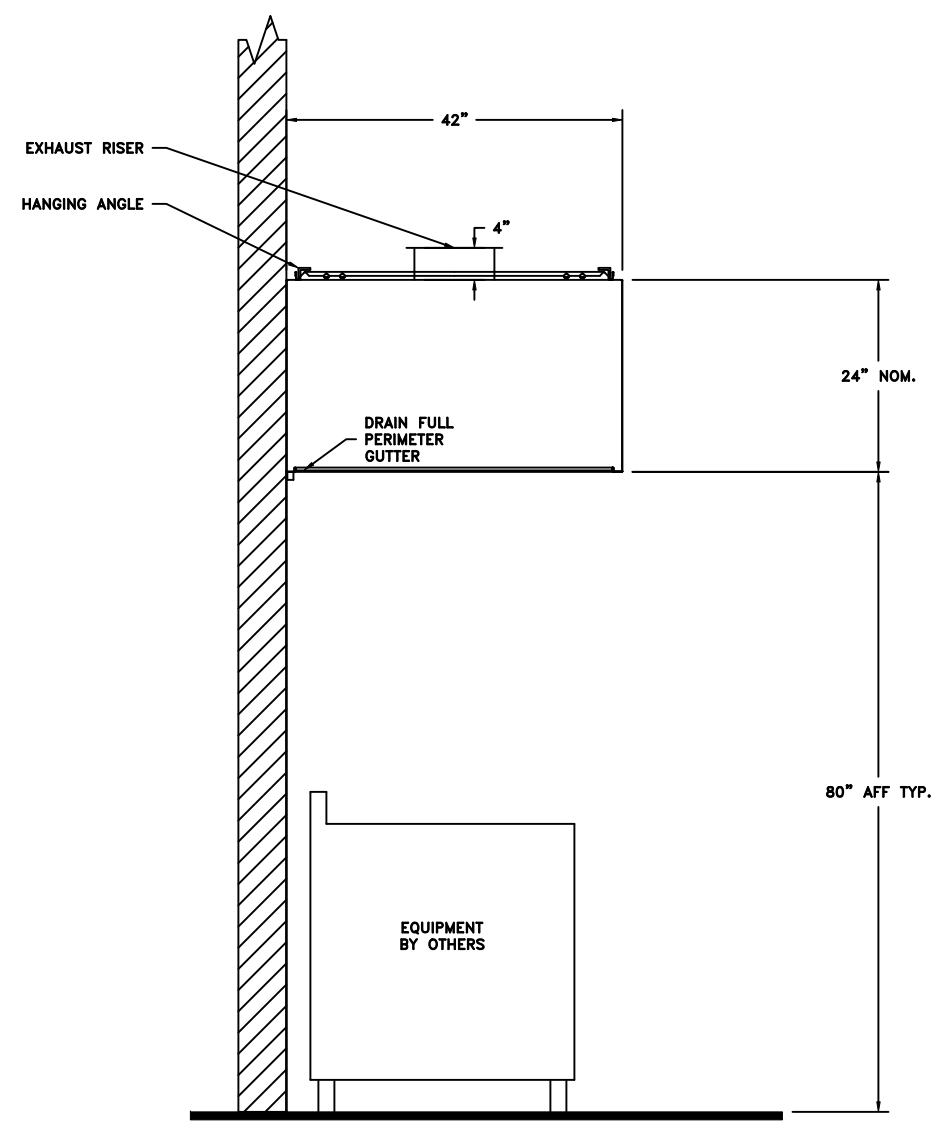
HOOD NO.	TAG	POS.	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S)				
							WIDTH	LENG.	DIA.	CFM	S.P.
K-21		Front	156"	14"	6"	MUA	12"	24"		626	0.175"
						MUA	12"	24"		626	0.175"
						MUA	12"	24"		626	0.175"
K-22		Front	156"	14"	6"	MUA	12"	28"		680	0.175"
						MUA	12"	28"		680	0.175"
						MUA	12"	28"		680	0.175"

ETL LISTING DESCRIPTION BLOCK
THE CAPTIVE-AIRE MODEL
VHB HAS BEEN TESTED, LISTED
AND APPROVED TO EXHAUST
A MINIMUM OF 100 CFM PER
LINEAR FOOT OVER 700
DEGREE EQUIPMENT FOR
NON-GREASE APPLICATIONS

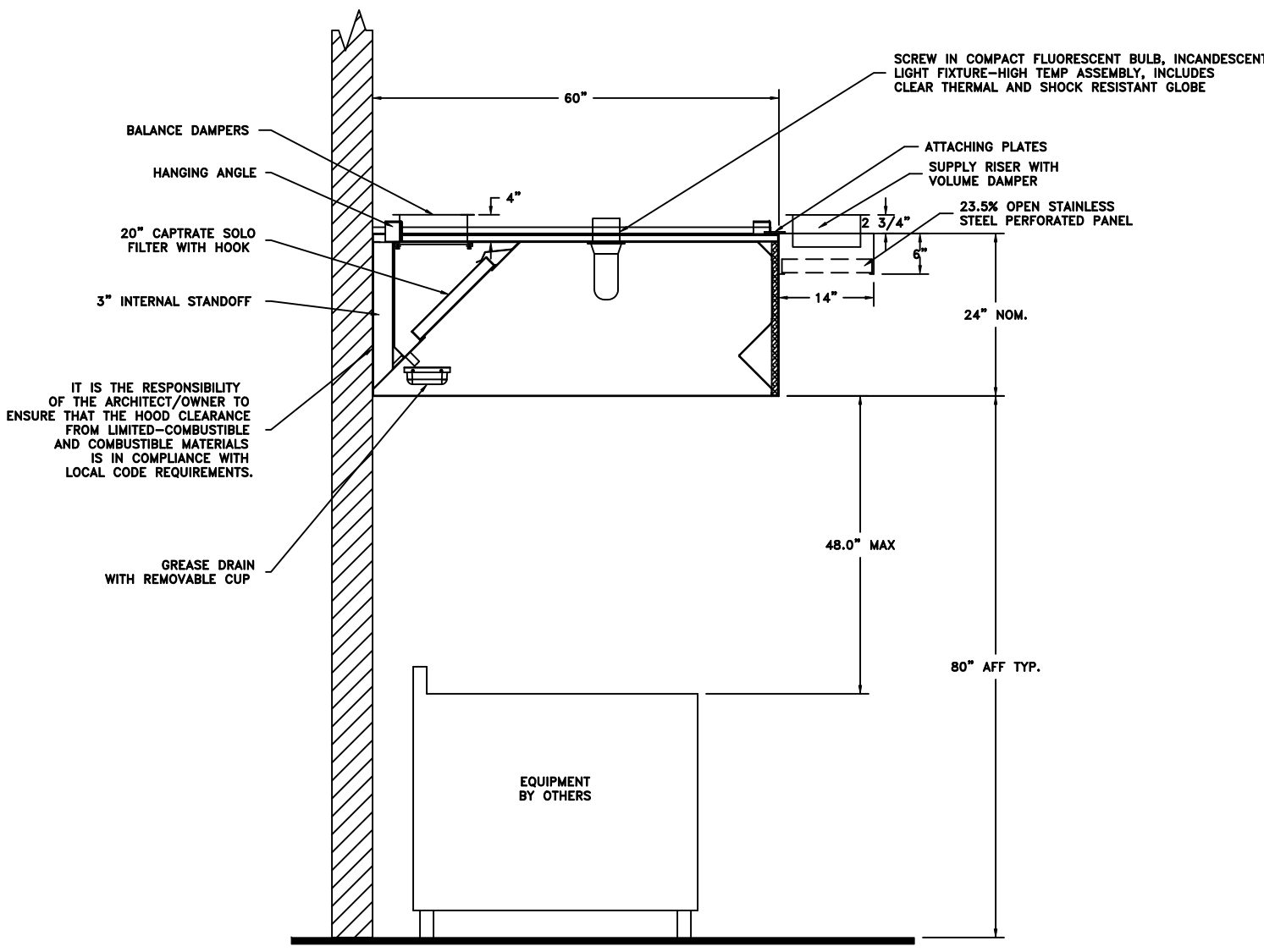
ETL LISTING DESCRIPTION BLOCK
THE CAPTIVE-AIRE MODEL
ND2 HAS BEEN I.L.
710 TESTED, LISTED, AND
APPROVED TO EXHAUST
A MINIMUM OF 200 CFM PER
LINEAR FOOT OVER 600
DEGREE COOKING EQUIPMENT



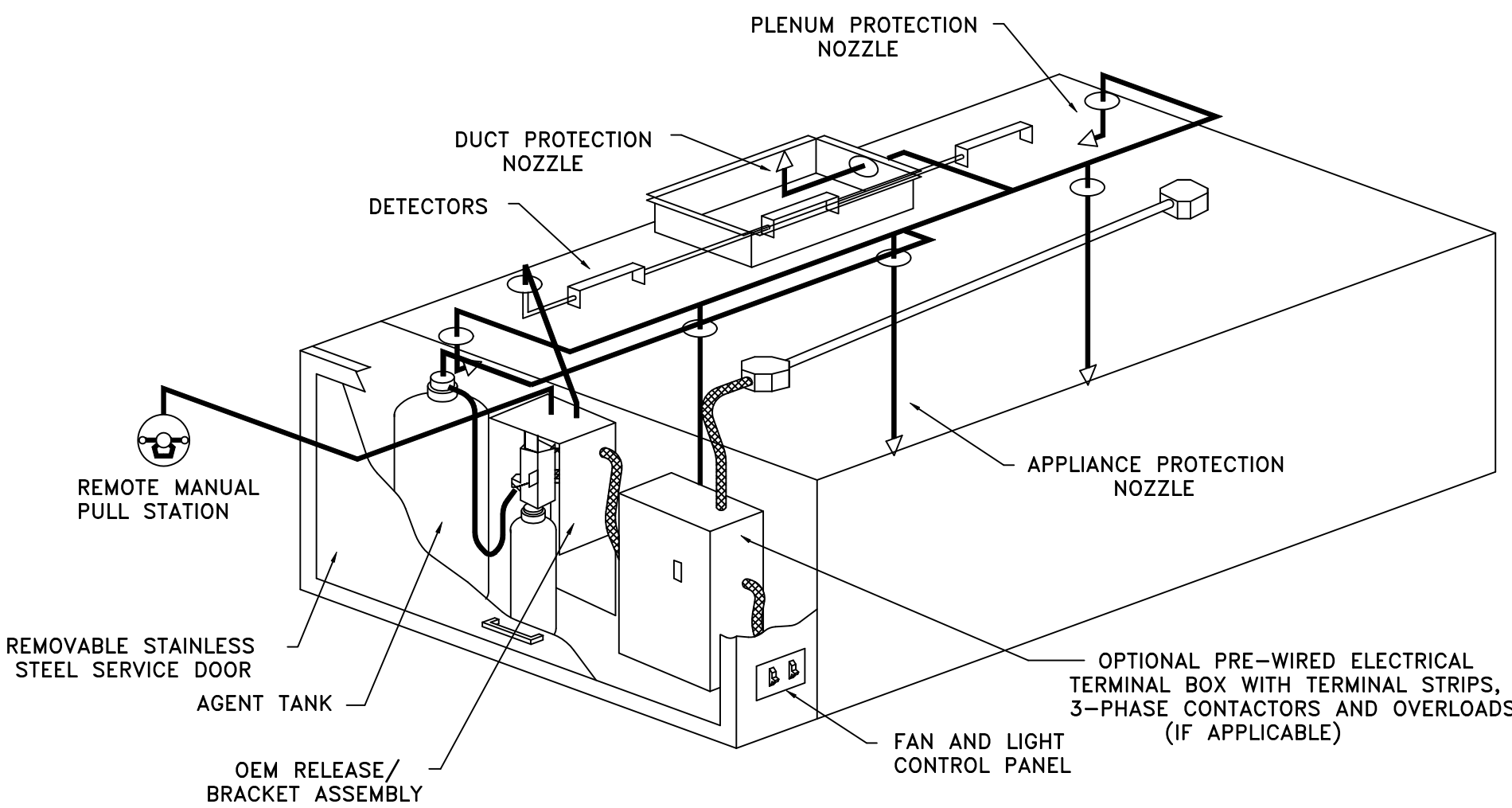
BALANCING DAMPER DETAIL



SECTION VIEW - MODEL 4224VHB-G
HOOD - K-13 (DISH)



SECTION VIEW - MODEL 6024ND-2-PSP-F
HOODS - K-21, K-22



TYPICAL ANSUL R-102 SYSTEM LAYOUT

REVISIONS

DATE	No	DESCRIPTION

FOOD SERVICE
EQUIPMENT
HOOD PLAN

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

DRAWN BY: JZK
DATES: 1-18-14

K-7

FAN UNIT NO.	TAG	FAN UNIT MODEL #	CFM	ESP.	RPM	H.P.	Ø	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS.)	SONES
1	KEF-1	USB124BD-RM	4900	2.600	1170	5.000	3	208	15.0	1401 FPM	667	27
2	KEF-2	USB111BD-RM	600	1.000	1432	0.500	3	208	1.8	926 FPM	162	8.2

FAN UNIT NO.	TAG	FAN UNIT MODEL #	BLOWER	HOUSING	CFM	ESP.	RPM	H.P.	Ø	VOLT	FLA	WEIGHT (LBS.)	SONES
3	MUA-1	A2-D.500-G15	G15-PB	A2-D.500	3920	1.150	1118	5.000	3	208	15.0	825	22

FAN UNIT NO.	TAG	ACTUAL AIR DENSITY?	INPUT BTUs	OUTPUT BTUs	TEMP. RISE	REQUIRED INPUT GAS PRESSURE	GAS TYPE
3	MUA-1	YES	307805	283181	70 deg F	7 in. w.c. - 14 in. w.c.	Natural

FAN UNIT NO.	TAG	OPTION (Qty. - Descr.)
1	KEF-1	1 - USBI24 - Inlet Connection Standard 24" Flanged Grease Duct.
		1 - USBI - Discharge Orientation Vertical Upper Left - CCW Inlet Side.
		1 - Utility Set Grease Cup
		1 - Utility Set - Spring Vibration Isolators - BI27 Thru BI30 / Equivalent Sized Utility Set - Indoor/Outdoor use.
2	KEF-2	1 - USBI11 - Inlet Connection Standard 12" Flanged Grease Duct.
		1 - USBI - Discharge Orientation Vertical Upper Left - CCW Inlet Side.
		1 - Utility Set - Spring Vibration Isolators - BI10 Thru BI11 / Equivalent Sized Utility Set - Indoor/Outdoor use.
3	MUA-1	1 - AC Interlock Relay - 24VAC Coil
		1 - Low Fire Start
		1 - Inlet Pressure Gauge, 0-35"
		1 - Manifold Pressure Gauge, -5 to 15" wc

NO.	ON FAN	WEIGHT	ITEM	SIZE
1	# 1	62 LBS	Curb	4.000"W x 60.000"L x 20.000"H
2	# 2	38 LBS	Curb	4.000"W x 36.000"L x 20.000"H
3	# 3	76 LBS	Curb	31.000"W x 79.000"L x 20.000"H Insulated

[illegible]

- ROOF MOUNTED FANS
- RESTAURANT MODEL
 - UL705
 - UL762
- HIGH HEAT OPERATION DIRECT DRIVE 350°F (176°C)
- HIGH HEAT OPERATION BELT DRIVE 350°F (176°C)
- HEAT SLINGER
- GREASE CLASSIFICATION TESTING
 - 2" DRAIN
- MOTOR WEATHER COVER
- FULLY SEALED SCROLL HOUSING
- SCROLL ACCESS DOOR
- FLANGE 1 1/4" - 11 THRU 20.
- FLANGE 2" - 24 THRU 36.

USB24 - INLET CONNECTION STANDARD 24" FLANGED GREASE DUCT.
 USB1 - DISCHARGE ORIENTATION VERTICAL UPPER LEFT - CCW INLET SIDE.
 UTILITY SET GREASE CUP
 UTILITY SET - SPRING VIBRATION ISOLATORS - BI27 THRU BI30 / EQUIVALENT
 SIZED UTILITY SET - INDOOR/OUTDOOR USE.

NORMAL TEMPERATURE TEST BELT DRIVE EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 350°F (176°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

Technical drawings of the 1500W 24VDC Power Supply Unit, showing front, side, and top views with dimensions in inches.

Front View Dimensions:

- Total width: 22 1/2"
- Distance from left edge to fan center: 12"
- Total height: 27 1/8"
- Distance from bottom edge to fan center: 18"
- Distance from fan center to right edge: 16 3/8"
- Distance from fan center to right edge (including mounting flange): 17 5/8"
- Shaft diameter: 1" SHAFT DIA.

Side View Dimensions:

- Distance from left edge to fan center: 11 1/4"
- Distance from fan center to right edge: 17 1/2"
- Height from bottom edge to fan center: 12 1/2"
- Total height: 25 5/8"
- 2" DRAIN.

Top View Dimensions:

- Total width: 29 1/2"
- Distance from left edge to fan center: 24 7/8"
- Distance from fan center to right edge: 24 7/8"
- Distance from fan center to right edge (including mounting flange): 29 1/2"
- Isolators: (4) ISOLATORS = USB111, 13 & 15
- Support rails: SUPPORT RAILS

- ROOF MOUNTED FANS
- RESTAURANT MODEL
- UL705
- UL762
- HIGH HEAT OPERATION DIRECT DRIVE 350°F (176°C)
- HIGH HEAT OPERATION BELT DRIVE 350°F (176°C)
- HEAT SLINGER
- GREASE CLASSIFICATION TESTING
- 2" DRAIN
- MOTOR WEATHER COVER
- FULLY SEALED SCROLL HOUSING
- SCROLL ACCESS DOOR
- FLANGE 1 1/4" - 11 THRU 20.
- FLANGE 2" - 24 THRU 36.

USB11 - INLET CONNECTION STANDARD 12" FLANGED GREASE DUCT.
USB1 - DISCHARGE ORIENTATION VERTICAL UPPER LEFT - CCW INLET SIDE.
UTILITY SET - SPRING VIBRATION ISOLATORS - B110 THRU B111 / EQUIVALENT SIZED
UTILITY SET - INDOOR/OUTDOOR USE.

NORMAL TEMPERATURE TEST BELT DRIVE
EXHAUST FAN MUST OPERATE CONTINUOUSLY
WHILE EXHAUSTING AIR AT 350°F (176°C)
UNTIL ALL FAN PARTS HAVE REACHED
THERMAL EQUILIBRIUM, AND WITHOUT ANY
DETERIORATING EFFECTS TO THE FAN WHICH
WOULD CAUSE UNSAFE OPERATION.

DESCRIPTION	DATE:



www.casaire.com

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WASHINGTON, DC

DWG.#:
1979129

BY-32

NTS

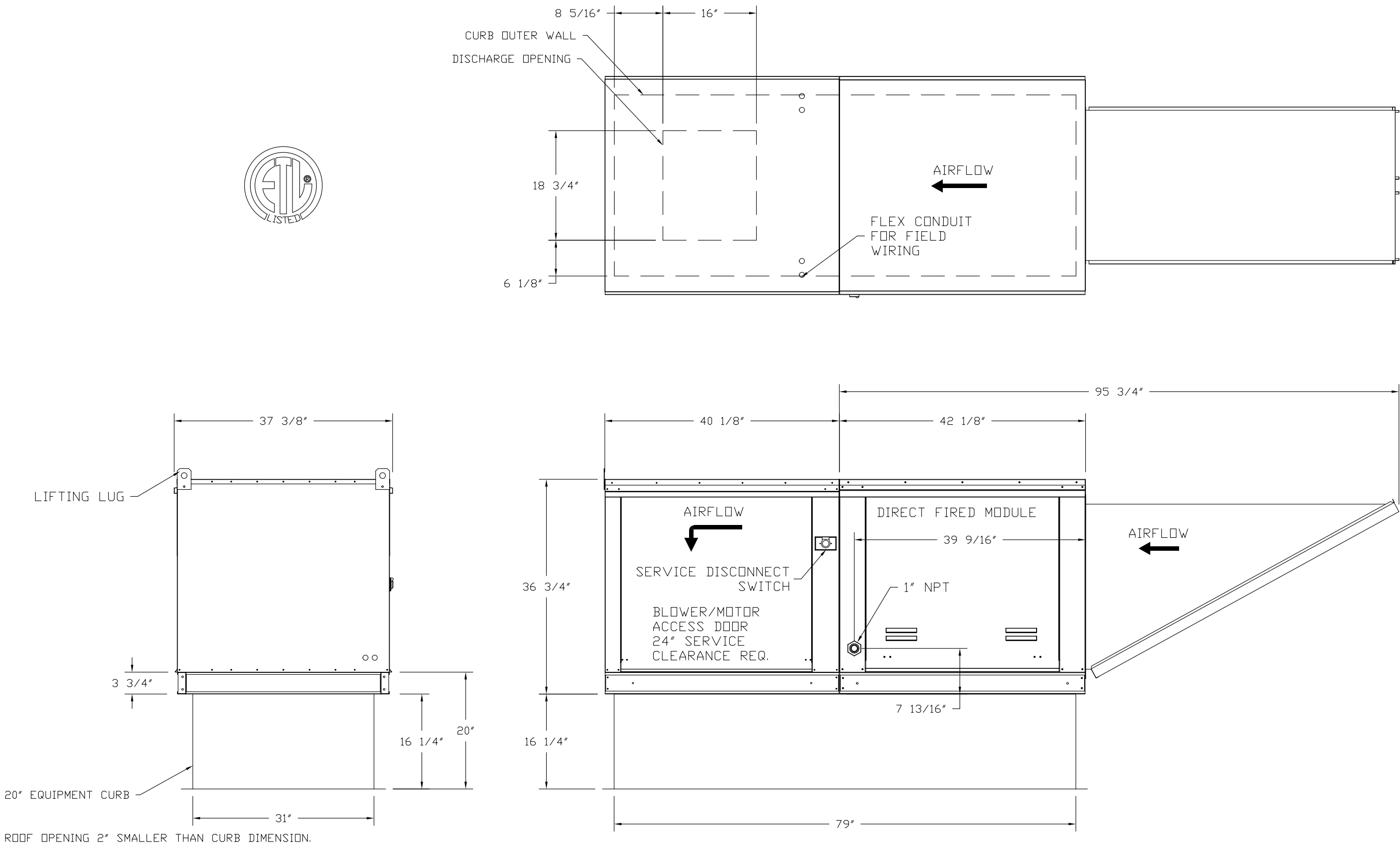
1

FAN #3 A2-D.500-G15 - HEATER (MUA-1)

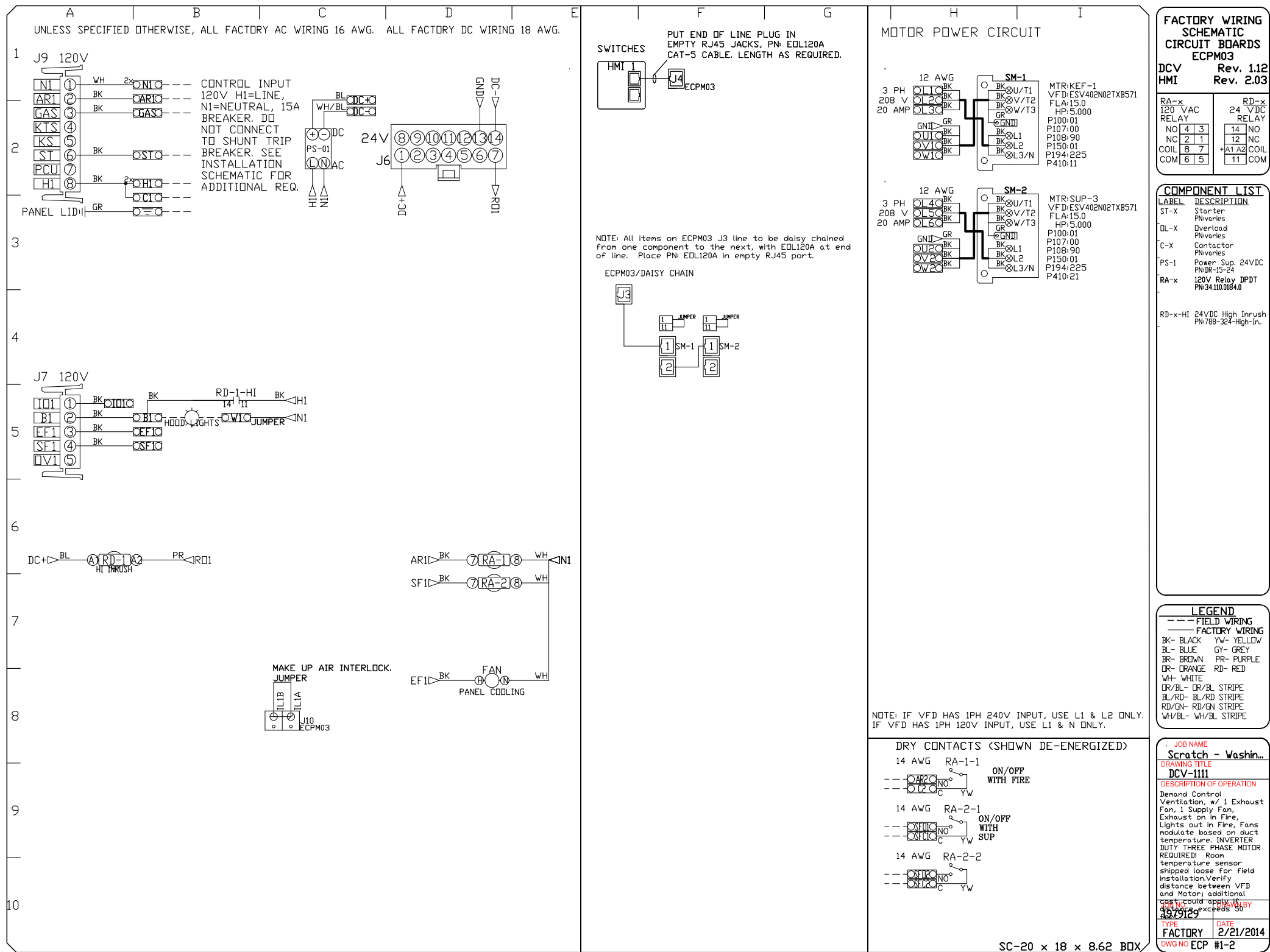
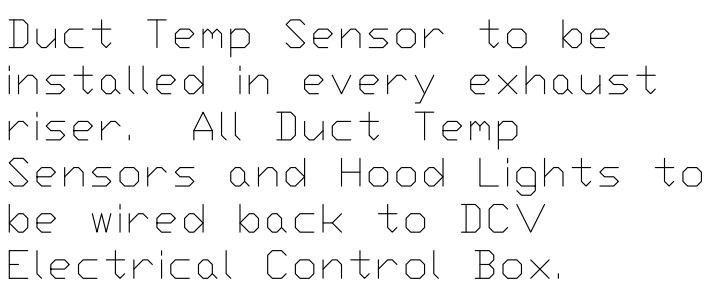
1. DIRECT GAS FIRED HEATED MAKE UP AIR UNIT WITH 15" BLOWER
2. INTAKE HOOD WITH EZ FILTERS
3. DOWN DISCHARGE - AIR FLOW RIGHT -> LEFT
4. COOLING INTERLOCK RELAY - 24VAC COIL - 120V CONTACTS - LOCKS OUT BURNER CIRCUIT WHEN AC IS ENERGIZED.
5. LOW FIRE START - ALLOWS THE BURNER CIRCUIT TO ENERGIZE WHEN THE MODULATION CONTROL IS IN A LOW FIRE POSITION.
6. GAS PRESSURE GAUGE, 0-35", 2.5" DIAMETER, 1/4" THREAD SIZE
7. GAS PRESSURE GAUGE, -5 TO +15 INCHES W.C., 2.5" DIAMETER, 1/4" THREAD SIZE

SUPPLY SIDE HEATER INFORMATION:

WINTER TEMPERATURE = 20°F. TEMP. RISE = 70°F.
BTUs CALCULATED OFF ACTUAL AIR DENSITY
OUTPUT BTUs AT ALTITUDE OF 0.0 ft. = 283181
INPUT BTUs AT ALTITUDE OF 0.0 ft. = 307805

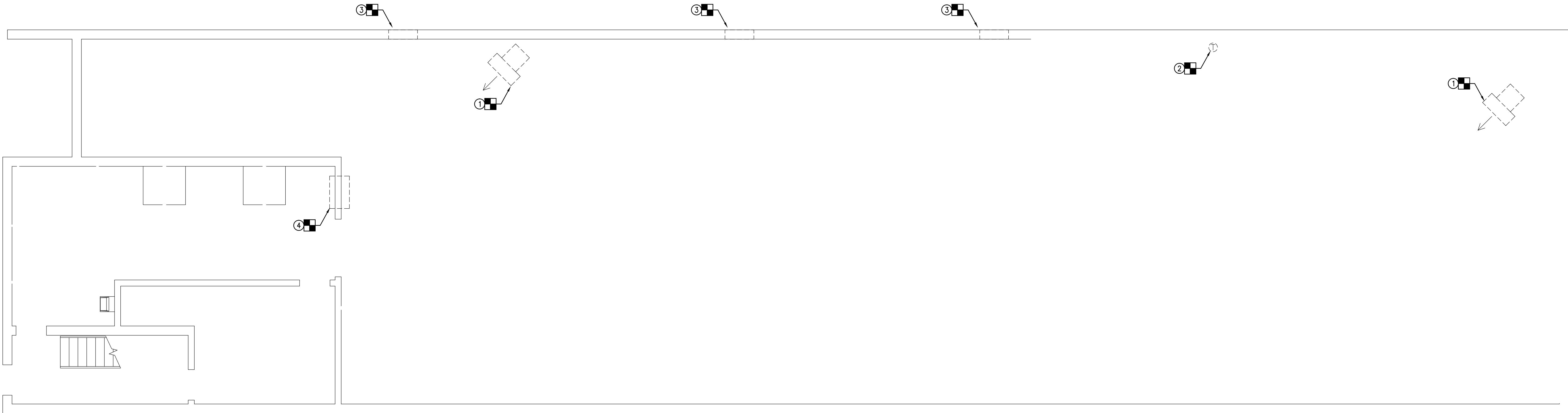


NO.	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED				
				LOCATION	QUANTITY		TYPE	Ø	H.P.	VOLT	FLA
1		DCV-1111	Wall Mount In SS Box	SS Wall Mount Box	1 Light 1 Fan	Smart Controls DCV	Exhaust Supply	3	5.000	208	15.0



SEPULCHRE OF
WASHINGTON, DC

SHEET NO.



1 FLOOR PLAN - MECHANICAL DEMOLITION
3/16" = 1'-0"

GENERAL NOTES:

- MECHANICAL DESIGN PER IMC 2006 CODE.
- CONTRACTOR SHALL FIELD VERIFY THE EXISTING MECHANICAL SYSTEMS AND NOTIFY ARCHITECT/ENGINEER OF ANY CONFLICT OF DESIGN WITH EXISTING BUILDING CONDITIONS BEFORE INSTALLATION OF NEW WORK.
- BALANCE HVAC SYSTEM AS SPECIFIED. BALANCE EQUIPMENT AND AIR DEVICES TO CFM AMOUNT INDICATED. IF VOLUME DAMPER IS MISSING OR INOPERABLE, INSTALL NEW AS REQUIRED. PERFORM AIR BALANCE BEFORE GYPSUM BOARD OR NON-ACCESSIBLE CEILING CLOSE-IN.
- SEAL ALL UNUSED OPENINGS IN SUPPLY AIR DUCT MAIN, AIRTIGHT.
- PROVIDE SHOP DRAWINGS FOR ARCHITECT/ENGINEER APPROVAL BEFORE PURCHASE. ORDERS ARE RELEASED AS SPECIFIED.

MECHANICAL PLAN NOTES:

- REMOVE GAS-FIRED UNIT HEATER, SUPPORTS, FLUE, GAS PIPING, CONTROLS AND ASSOCIATED APPURTENANCES.
- REMOVE WALL MOUNTED UNIT HEATER THERMOSTAT.
- REMOVE WALL MOUNTED FAN, SUPPORTS, CONTROLS AND ASSOCIATED APPURTENANCES.
- REMOVE WALL MOUNTED A/C UNIT, SUPPORTS, CONTROLS AND ASSOCIATED APPURTENANCES.

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scratchDC
★ ★ ★

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Phone: 202-216-0039
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Project No: 14017

NOTES

PROFESSIONAL SEAL

SUBMITTALS

#	Description	Date
1	ISSUE FOR PERMIT	02/26/2014

SCRATCH DC
2610 EVARTS ST. NE
WASHINGTON, DC 20018

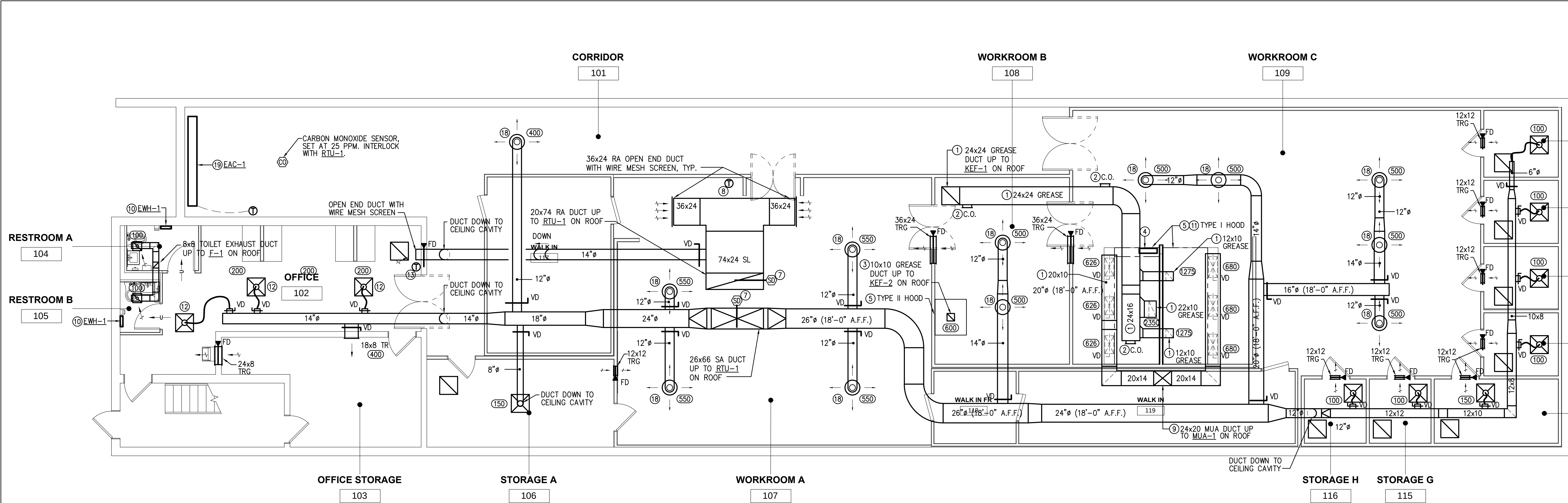


MECHANICAL
DEMOLITION PLAN

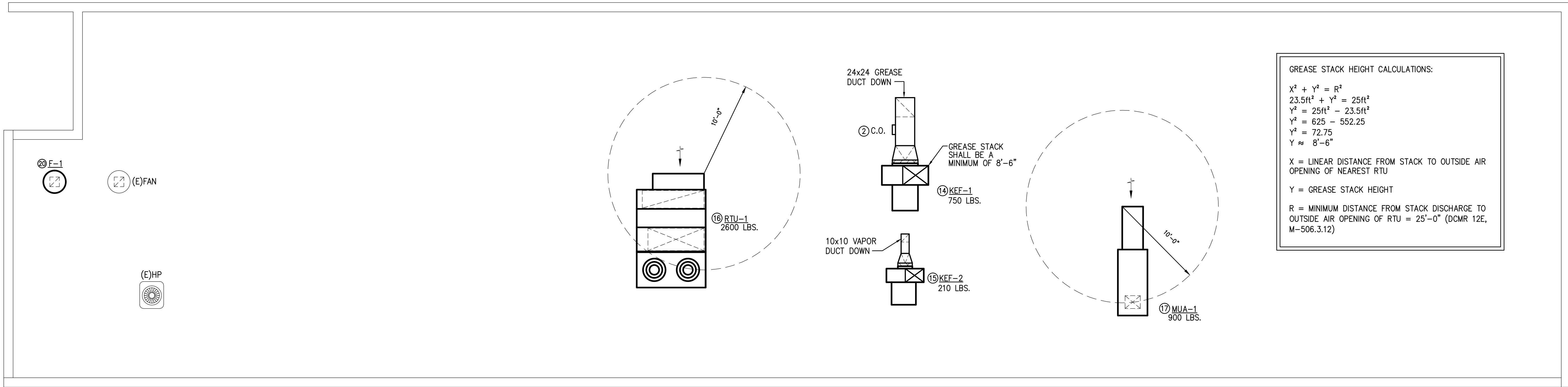
M-2

Project #	13-269	Date	FEB 25, 2014
Managed By	AS	Drawn By	

Scale: As indicated



1 FLOOR PLAN - MECHANICAL NEW WORK
3/16" = 1'-0"



2 ROOF PLAN - MECHANICAL NEW WORK
3/16" = 1'-0"

- GENERAL NOTES:
- MECHANICAL DESIGN PER IMC 2006 CODE.
 - CONTRACTOR SHALL FIELD VERIFY THE EXISTING MECHANICAL SYSTEMS AND NOTIFY ARCHITECT/ENGINEER OF ANY CONFLICT OF DESIGN WITH EXISTING BUILDING CONDITIONS BEFORE INSTALLATION OF NEW WORK.
 - BALANCE HVAC SYSTEM AS SPECIFIED. BALANCE EQUIPMENT AND AIR DEVICES TO CFM AMOUNT INDICATED. IF VOLUME DAMPER IS MISSING OR INOPERABLE, INSTALL NEW AS REQUIRED. PERFORM AIR BALANCE BEFORE GYPSUM BOARD OR NON-ACCESSIBLE CEILING CLOSE-IN.
 - SEAL ALL UNUSED OPENINGS IN SUPPLY AIR DUCT MAIN, AIRTIGHT.
 - PROVIDE SHOP DRAWINGS FOR ARCHITECT/ENGINEER APPROVAL BEFORE PURCHASE ORDERS ARE RELEASED AS SPECIFIED.

- MECHANICAL PLAN NOTES:
- PROVIDE 18 GAUGE WELDED AND POLISHED, BLACK-IRON KITCHEN EXHAUST DUCT RUN FROM NEW KITCHEN (GREASE) EXHAUST HOOD AND CONNECT TO NEW KITCHEN EXHAUST FAN ON ROOF. PROVIDE ZERO CLEARANCE DUCT INSULATION AS SPECIFIED. COORDINATE DUCT RUN WITH EXISTING BUILDING CONDITIONS AND OTHER CONSTRUCTION DISCIPLINES.
 - PROVIDE CLEAN OUT FOR KITCHEN EXHAUST DUCT.
 - PROVIDE 18 GAUGE, STAINLESS STEEL KITCHEN EXHAUST DUCT RUN FROM NEW KITCHEN (DISHWASHER) EXHAUST HOOD AND CONNECT TO NEW KITCHEN EXHAUST FAN ON ROOF. COORDINATE DUCT RUN WITH EXISTING BUILDING CONDITIONS AND OTHER CONSTRUCTION DISCIPLINES.
 - PROVIDE KITCHEN EXHAUST EMS SYSTEM PANEL FOR VFD AND FIRE SYSTEM CONTROL. BASIS OF DESIGN: CAPTIVEAIRE EMS1102 MULTI-STAT. REFER TO MANUFACTURER DRAWINGS FOR PERFORMANCE DATA. COORDINATE INSTALLATION WITH EXISTING BUILDING CONDITIONS AND OTHER CONSTRUCTION DISCIPLINES.
 - PROVIDE KITCHEN EXHAUST HOOD. REFER TO CAPTIVEAIRE MANUFACTURER DRAWINGS FOR PERFORMANCE DATA. COORDINATE INSTALLATION WITH EXISTING BUILDING CONDITIONS AND OTHER CONSTRUCTION DISCIPLINES. REFER TO KITCHEN VENDOR DRAWINGS FOR MORE INFORMATION.
 - PROVIDE EXHAUST FAN AS SCHEDULED. INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS. SUPPORT UNIT FROM STRUCTURE ABOVE WITH VIBRATION ISOLATION HANGERS. COORDINATE INSTALLATION OF UNIT WITH EXISTING BUILDING CONDITIONS AND OTHER CONSTRUCTION DISCIPLINES.
 - PROVIDE DUCT SMOKE DETECTORS WITH AUDIBLE ALARM. UNIT SHALL SHUT DOWN UPON SIGNAL FROM SENSOR. REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION.
 - PROVIDE NEW PROGRAMMABLE THERMOSTAT (7-DAY, HEAT/COOL TYPE) FOR RTU-1.
 - PROVIDE MAKE-UP AIR DUCT UP TO MUA-1 ON ROOF. COORDINATE DUCT RUN WITH EXISTING BUILDING CONDITIONS AND OTHER CONSTRUCTION DISCIPLINES.
 - PROVIDE ELECTRIC WALL HEATER AS SCHEDULED.
 - INTERLOCK EACH GAS-FIRED APPLIANCE WITH KITCHEN MAKE-UP AIR SYSTEM TO PREVENT MAIN BURNER OPERATION WHEN THE MECHANICAL AIR SUPPLY SYSTEM IS NOT IN OPERATION. PROVIDE SENSORS AND CONTROLS AS REQUIRED.
 - PROVIDE VAV DIFFUSER WITH HEATING/COOLING SET POINTS. BASIS OF DESIGN: ACUTHERM TF-HC, 10"ø NECK, 250 CFM MAXIMUM. PROVIDE UNIT WITH BYPASS RING, INTEGRAL CHANGEOVER & ROOM TEMPERATURE SENSING THERMOSTATS. INTERLOCK WITH FACTORY APPROVED REMOTE WALL ADJUSTER.
 - PROVIDE REMOTE WALL ADJUSTER TO CONTROL VAV DIFFUSERS. BASIS OF DESIGN: ACUTHERM ADJ-D.
 - PROVIDE NEW KITCHEN HOOD EXHAUST FAN, KEF-1. BASIS OF DESIGN: CAPTIVEAIRE, MODEL USB24BD-RM, 4900 CFM @ 2.60 ESP, 5 HP, 208V/3ø. REFER TO MANUFACTURER DRAWINGS FOR PERFORMANCE DATA. MOUNT UNIT ON FACTORY FABRICATED SUPPORT RAILS. INSTALL ROOF MOUNTED EQUIPMENT AND PATCH ROOF AS REQUIRED IN ACCORDANCE WITH LANDLORD REQUIREMENTS. COORDINATE INSTALLATION WITH STRUCTURAL ENGINEER, EXISTING BUILDING CONDITIONS AND OTHER CONSTRUCTION DISCIPLINES.
 - PROVIDE NEW KITCHEN HOOD EXHAUST FAN, KEF-2. BASIS OF DESIGN: CAPTIVEAIRE, MODEL USB11BD-RM, 600 CFM @ 1.0 ESP, 1/2 HP, 208V/3ø. REFER TO MANUFACTURER DRAWINGS FOR PERFORMANCE DATA. MOUNT UNIT ON FACTORY FABRICATED SUPPORT RAILS. INSTALL ROOF MOUNTED EQUIPMENT AND PATCH ROOF AS REQUIRED IN ACCORDANCE WITH LANDLORD REQUIREMENTS. COORDINATE INSTALLATION WITH STRUCTURAL ENGINEER, EXISTING BUILDING CONDITIONS AND OTHER CONSTRUCTION DISCIPLINES.
 - PROVIDE NEW ROOFTOP UNIT WITH THERMOSTATIC CONTROLS, RTU-1, AS SCHEDULED. INSTALL ROOF MOUNTED EQUIPMENT ON ROOF CURB. PATCH ROOF AS REQUIRED IN ACCORDANCE WITH LANDLORD GUIDELINES TO MAINTAIN ROOF WARRANTY. COORDINATE INSTALLATION WITH EXISTING BUILDING CONDITIONS AND OTHER CONSTRUCTION DISCIPLINES.
 - PROVIDE NEW GAS MAKE-UP AIR UNIT, MUA-1. BASIS OF DESIGN: CAPTIVEAIRE, MODEL A2-D.500-G15, 3920 CFM @ 1.50 ESP, 5 HP, 208V/3ø, 307.8 MBH INPUT, 283.1 MBH OUTPUT. REFER TO MANUFACTURER DRAWINGS FOR PERFORMANCE DATA. INSTALL ROOF MOUNTED EQUIPMENT ON ROOF CURB AND PATCH ROOF AS REQUIRED IN ACCORDANCE WITH LANDLORD REQUIREMENTS. COORDINATE INSTALLATION WITH STRUCTURAL ENGINEER, EXISTING BUILDING CONDITIONS AND OTHER CONSTRUCTION DISCIPLINES.
 - INSTALL ROUND DIFFUSER 12'-0" ABOVE FINISHED FLOOR. RUN RIGID ROUND DUCT FROM MAIN TO DIFFUSER. COORDINATE DUCT RUN WITH EXISTING BUILDING CONDITIONS AND OTHER CONSTRUCTION DISCIPLINES.
 - PROVIDE ELECTRIC AIR CURTAIN TO SERVE GARAGE DOOR. BASIS OF DESIGN: MARS, STD120-3E, 36 KW, 208V/3ø, 1/2 HP MOTOR, 1750 RPM. PROVIDE UNIT WITH THERMAL OVERLOAD PROTECTION, WALL MOUNTED THERMOSTAT, DISCONNECT SWITCH, AND MOUNTING HARDWARE FOR PROPER INSTALLATION. COORDINATE COLOR WITH ARCHITECT. FIELD VERIFY WIDTH OF DOOR.
 - PROVIDE EXHAUST FAN, AS SCHEDULED. COORDINATE INSTALLATION WITH EXISTING BUILDING CONDITIONS AND OTHER CONSTRUCTION DISCIPLINES.

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Project No: 14017

NOTES

PROFESSIONAL SEAL

SUBMITTALS

#	Description	Date
1	ISSUE FOR PERMIT	02/26/2014

SCRATCH DC
2610 EVARTS ST. NE
WASHINGTON, DC 20018

MECHANICAL NEW
WORK PLANS

M-3

Project #	13-269	Date	FEB 25, 2014
Managed By	AS	Drawn By	
Scale:	As indicated		

GAS FIRED ROOFTOP UNIT SCHEDULE																														
UNIT NO.	AREA SERVED	SUPPLY FAN			MIN. EER	O.A. CFM	EVAPORATOR COIL								HEATING (GAS)				ELECTRICAL DATA						FILTER		WEIGHT LBS.	BASIS OF DESIGN "TRANE"	REMARKS	
		CFM	E.S.P. IN."	HP			SENS. MBH	TOTAL MBH	ENT. AIR °F		LVG. AIR °F		OUTDOOR °F DB		INPUT (MBH)	OUTPUT (MBH)	E.A.T. °F	L.A.T. °F	COMPRESSOR		COND. FAN		M.C.A.	MOCP	VOLTS/ PH	TYPE				THICK IN"
									DB	WB	DB	WB	DB	WB					NO.	RLA EA.	NO.	FLA EA.								
RTU-1	OFFICE/KITCHEN	8000	1.0	5	11.5	1000	197.3	258.9	80	67	57.5	56.5	95	350	283	58	104	2	42.5	2	5.0	115	150	208/3	T.A.	2	2600	YSD240	DOWNFLOW UNIT	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

NOTE: 1. ROOFTOP UNIT SHALL BE PROVIDED WITH SINGLE POINT ELECTRICAL CONNECTIONS, HIGH STATIC DRIVE, LOW AMBIENT COOLING TO 0°F, POWERED EXHAUST, MODULATING GAS HEATING, SMOKE DETECTOR (SUPPLY & RETURN), ECONOMIZER, POWERED CONVENIENCE OUTLET, AND FIVE YEAR COMPRESSOR WARRANTY (MINIMUM).
2. CONSTANT VOLUME TYPE UNIT WITH DOWNFLOW SUPPLY AND RETURN DUCT CONNECTIONS. PROVIDE HEATING/COOLING PROGRAMMABLE THERMOSTAT WITH COMPATIBLE REMOTE SENSOR.

DIFFUSER/RETURN AIR GRILLE SCHEDULE							
SYMBOL	TYPE	CFM RANGE	NECK DIA. DIA. IN"	FACE IN" SQ.	MAX. NC LEVEL	BASIS OF DESIGN "TITUS"	
	SUPPLY AIR REGISTER DOUBLE DEFLECTION 3/4" BLADE SPACING	0-220	10x6	12x8	30	300RL	
		221-350	12x8	14x10			
		351-600	24x12	26x14			
	SUPPLY AIR REGISTER DOUBLE DEFLECTION 3/4" BLADE SPACING	0-250	12x6	14x8	30	300RS	
		251-700	24x6	26x8			
	35° DEFLECTION 3/4" BLADE SPACING	0-150	6x6	8x8	25	350RL	
	FILTER RETURN AIR GRILLE 35° DEFLECTION 3/4" BLADE SPACING	0-1000	24x12	26x14	25	350RLF2	
		0-3500	42x20	44x22			

NOTES: 1. PROVIDE ALL DIFFUSERS AND SUPPLY AIR REGISTERS WITH OPPOSED BLADE DAMPERS.
2. PROVIDE CEILING DIFFUSERS WITH FOUR-WAY THROW EXCEPT AS INDICATED.
3. PROVIDE FRAME AND BORDER TO MATCH CEILING. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPE.
4. REFER TO ARCHITECT FOR COLOR ARRANGEMENT.

ELECTRIC HEATER SCHEDULE										
NO.	TYPE	CFM	MBH	KW	STAGE NO.	VOLTS	PHASE	MOTOR HP	BASIS OF DESIGN " QMARK "	REMARKS
EWH-1	WALL MTD.	100	13.6	1.5	1	120	1	1/100	CWH-3150	2,3
-	-	-	-	-	-	-	-	-	-	-

NOTES: 1. PROVIDE VERTICAL UNIT HEATER WITH MOUNTING BRACKET, WALL MOUNTED THERMOSTAT, 24V CONTROL TRANSFORMER, AND THERMAL CUTOUT WITH AUTOMATIC RESET.
2. PROVIDE WALL MOUNTED UNIT HEATER WITH RECESSED MOUNTING SLEEVE, UNIT MOUNTED THERMOSTAT, AND THERMAL CUTOUT WITH AUTOMATIC RESET.
3. REFERENCE FLOOR PLAN FOR QUANTITY OF FANS.

AIR BALANCE TABLE			
ROOM NAME	CFM O.A. SUP.	CFM EXH.	SPACE PRESSURE
KITCHEN	+5036	-5500	NEGATIVE -464 CFM
STORAGE	+272	-	POSITIVE +272 CFM
TOILET	-	-200	NEGATIVE -200 CFM
OFFICE	+112	-	POSITIVE +112 CFM
TOTAL	+5420	-5700	NEGATIVE -280 CFM

DUCTWORK SCHEDULE			
DUCTWORK DESCRIPTIN	PRESSURE CLASS (INCHES W.G.)	SEAL CLASS	INSULATION REQUIREMENTS
TOILET EXHAUST	2.0"	C	-
SUPPLY AIR DOWNSTREAM OF TERMINAL UNITS	2.0"	C	1 1/2"
CONSTANT VOLUME UNITS	2.0"	C	1 1/2"
RETURN	2.0"	C	1 1/2"
GREASE	4.0"	A	FIRE BARRIER WRAP
OUTSIDE AIR LOW PRESSURE	2.0"	C	2"

COMMON VENTILATION SYSTEM CALCULATION:
(2006 IMC, SECTION 403.3.2)

TOTAL AREA SERVED BY COMMON VENTILATION SYSTEM: 5219 SQ.FT.

NON-CRITICAL SPACE(S): (STORAGE, OFFICE)

NON-CRITICAL SPACE AREA:	2524 SQ.FT.	0.15 CFM/SQ. FT. (TABLE 403.3)	REQUIRED % OF OA: = $\frac{379 \text{ CFM}}{2050 \text{ CFM}}$ = 18.4%
OCCUPANT LOAD:	-----		
OA REQUIRED:	379 CFM		
SA PROVIDED:	2050 CFM		

CRITICAL SPACE(S): WORKROOMS (KITCHEN)

CRITICAL SPACE AREA:	2695 SQ.FT.	20 PEOPLE/1000 SQ.FT. (TABLE 403.3)	REQUIRED % OF OA: = $\frac{810 \text{ CFM}}{5950 \text{ CFM}}$ 13.6%
OCCUPANT LOAD:	54 PEOPLE		
OA REQUIRED:	810 CFM		
SA PROVIDED:	5950 CFM		

TOTAL OA REQUIRED = 1189 CFM TOTAL SA PROVIDED = 8000 CFM

CORRECTED PERCENT OF OA REQUIRED:

$$\frac{(TOTAL \text{ OA} / TOTAL \text{ SA})}{1 + (TOTAL \text{ OA} / TOTAL \text{ SA}) - (CRITICAL \text{ SPACE OA} / CRITICAL \text{ SPACE SA})} = \frac{0.148}{0.964} = 15.3\%$$

PERCENT OF OUTSIDE AIR PROVIDED BY COMMON VENTILATION SYSTEM

$$\frac{COMMON \text{ VENTILATION SYSTEM OA (CFM)}}{COMMON \text{ VENTILATION SYSTEM SA (CFM)}} = \frac{1500}{8000} = 18.75\%$$

SPACE MEETS CODE: RTU-1 PROVIDES 1500 CFM OUTSIDE AIR; 1189 CFM REQUIRED.

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Project No: 14017

NOTES

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1	ISSUE FOR PERMIT	02/26/2014

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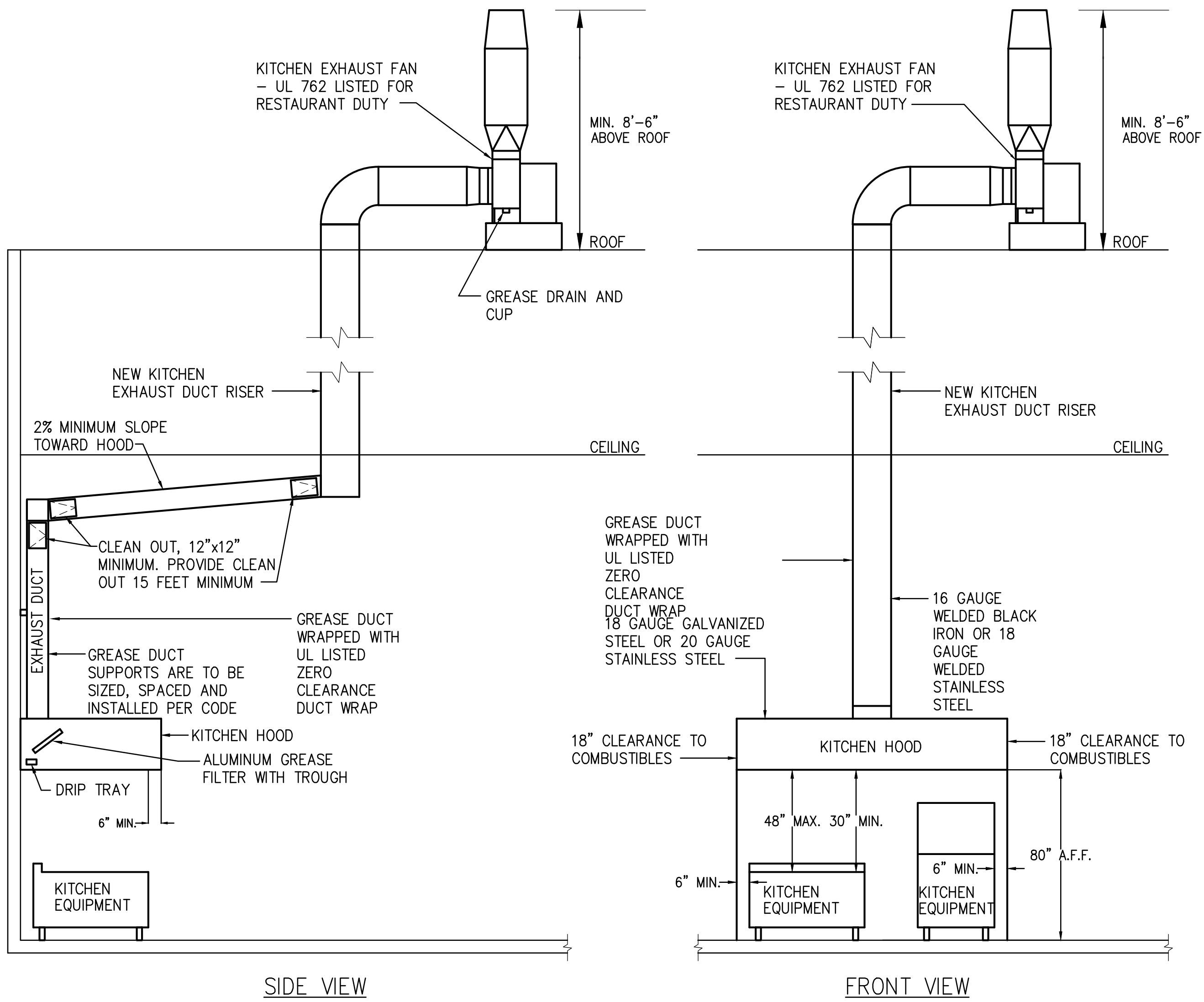
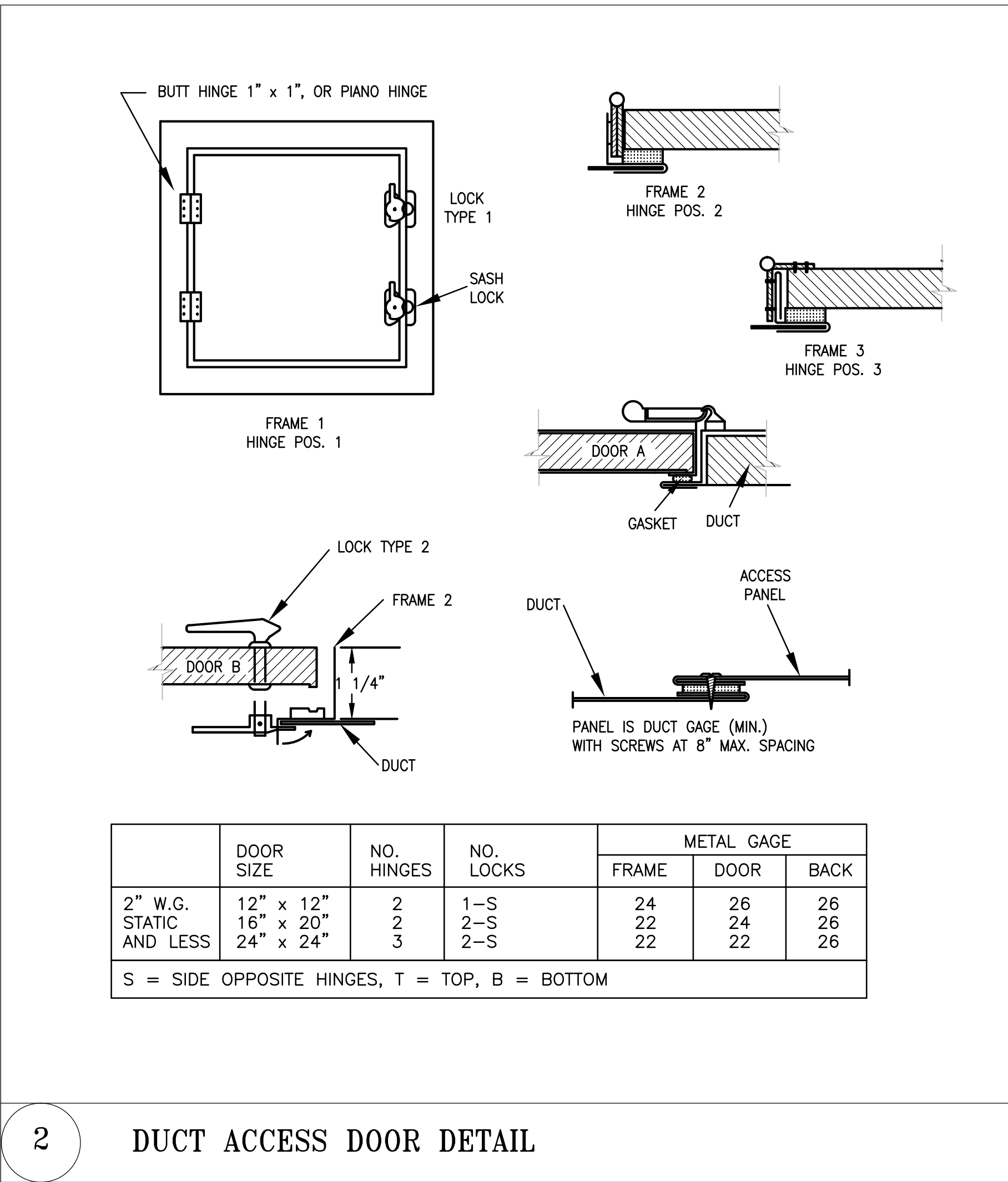
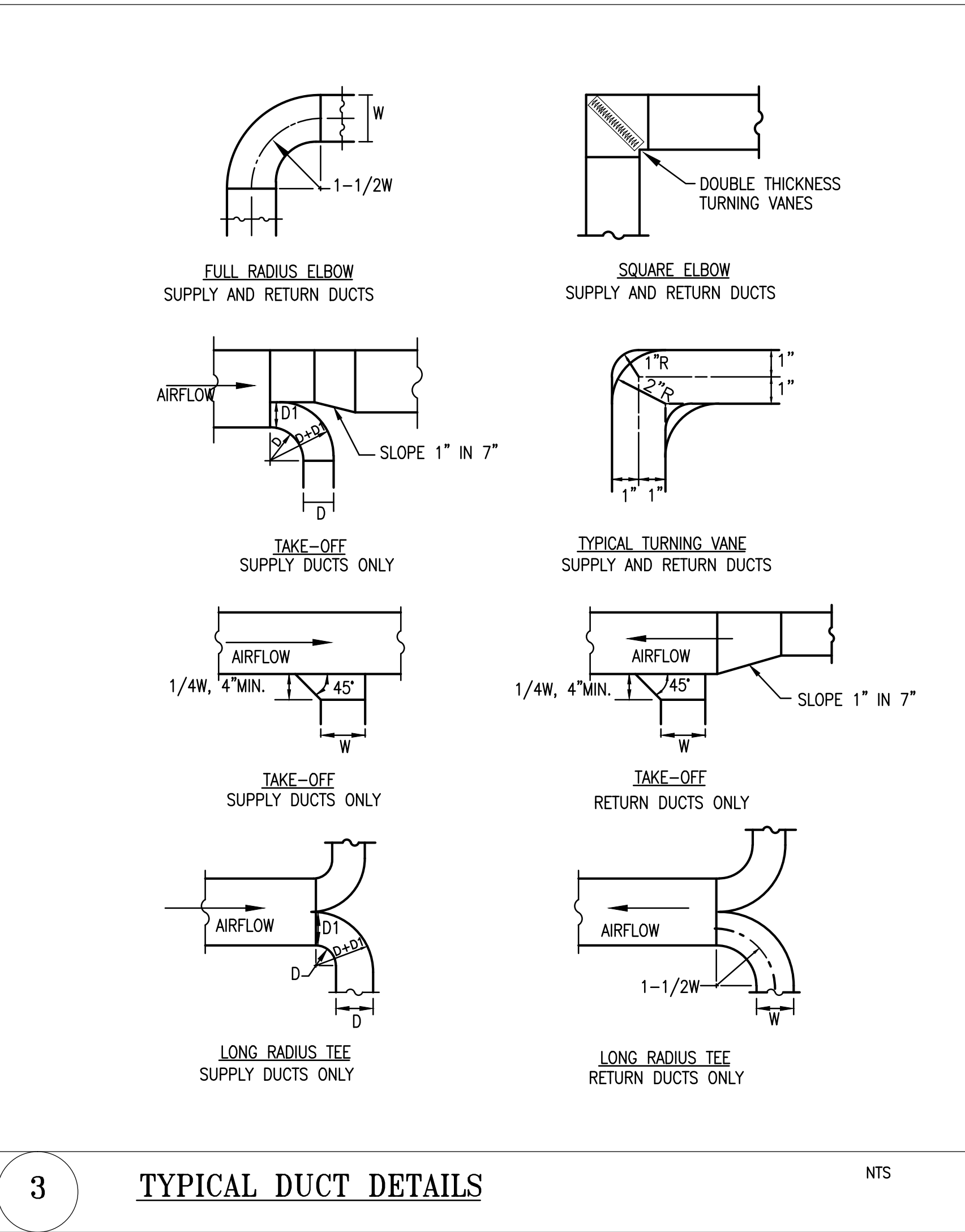
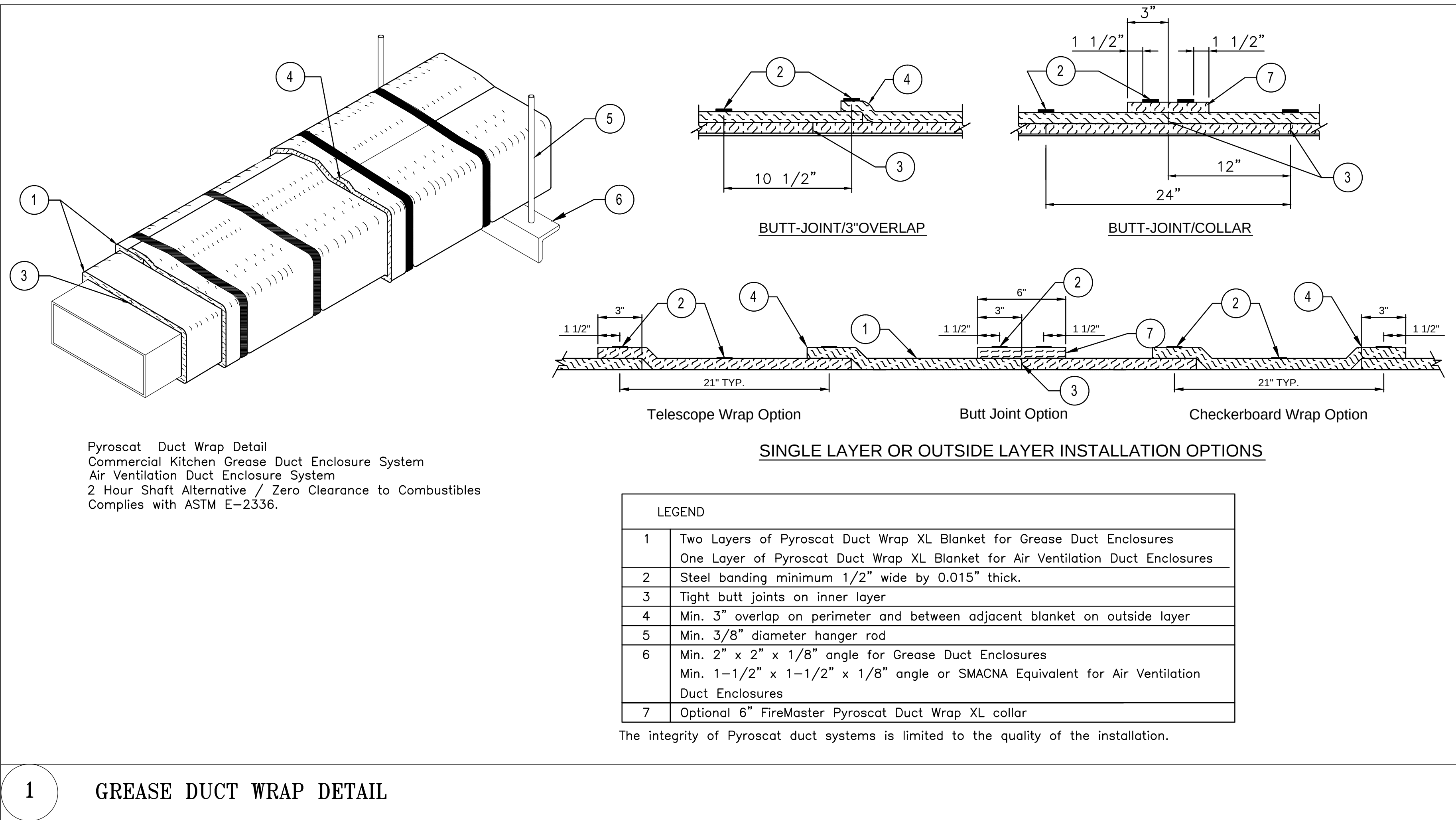


MECHANICAL
SCHEDULES

M-4

Project # 13-269 Date FEB 25, 2014
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- NOTES:
1. TYPE 1 HOOD SHALL BE STAINLESS STEEL, 20 GAUGE HOOD WITH WELDED SEAMS AND UL 710 LISTED.
 2. EXHAUST DUCT SHALL BE 16 GAUGE BLACK IRON WITH CONTINUOUS LIQUID TIGHT WELDED JOINTS AND SEAMS.
 3. AIR VELOCITY SHALL BE BY LATEST CODE.
 4. PROVIDE INSULATION WRAP EQUAL TO 3M "FIRE MASTER DUCT WRAP" WITH UL LISTINGS OF 723, 1978 AND 1479. ALSO COMPLIES WITH ASTM E-2336.
 5. INSULATION SHALL BE A 2-HOUR FIRE RESISTIVE RATED GREASE AIR DUCT ENCLOSURE AS A SHAFT ALTERNATIVE AND A METHOD FOR PROVIDING ZERO INCH CLEARANCE AROUND COMMERCIAL KITCHEN GREASE DUCT EXHAUST SYSTEMS TO COMBUSTIBLE MATERIALS.
 6. INSULATION SHALL BE A LIGHT WEIGHT, NON-ASBESTOS, HIGH TEMPERATURE, INORGANIC, CERAMIC FIBER BLANKET TOTALLY ENCAPSULATED IN FOIL/SCRM HAVING A SERVICE TEMPERATURE RANGE UP TO 2300 DEGREES FAHRENHEIT.
 7. ALUMINUM GREASE FILTER WITH TROUGH, SHALL BE INSTALLED IN THE HOOD IN COMPLIANCE WITH CODE. FILTERS SHALL BE MOUNTED AT AN ANGLE OF 45 DEGREES MINIMUM.
 8. PROVIDE STAINLESS STEEL ENCLOSURE PANEL BETWEEN TOP OF KITCHEN HOOD AND CEILING, PER LOCAL CODE REQUIREMENTS.

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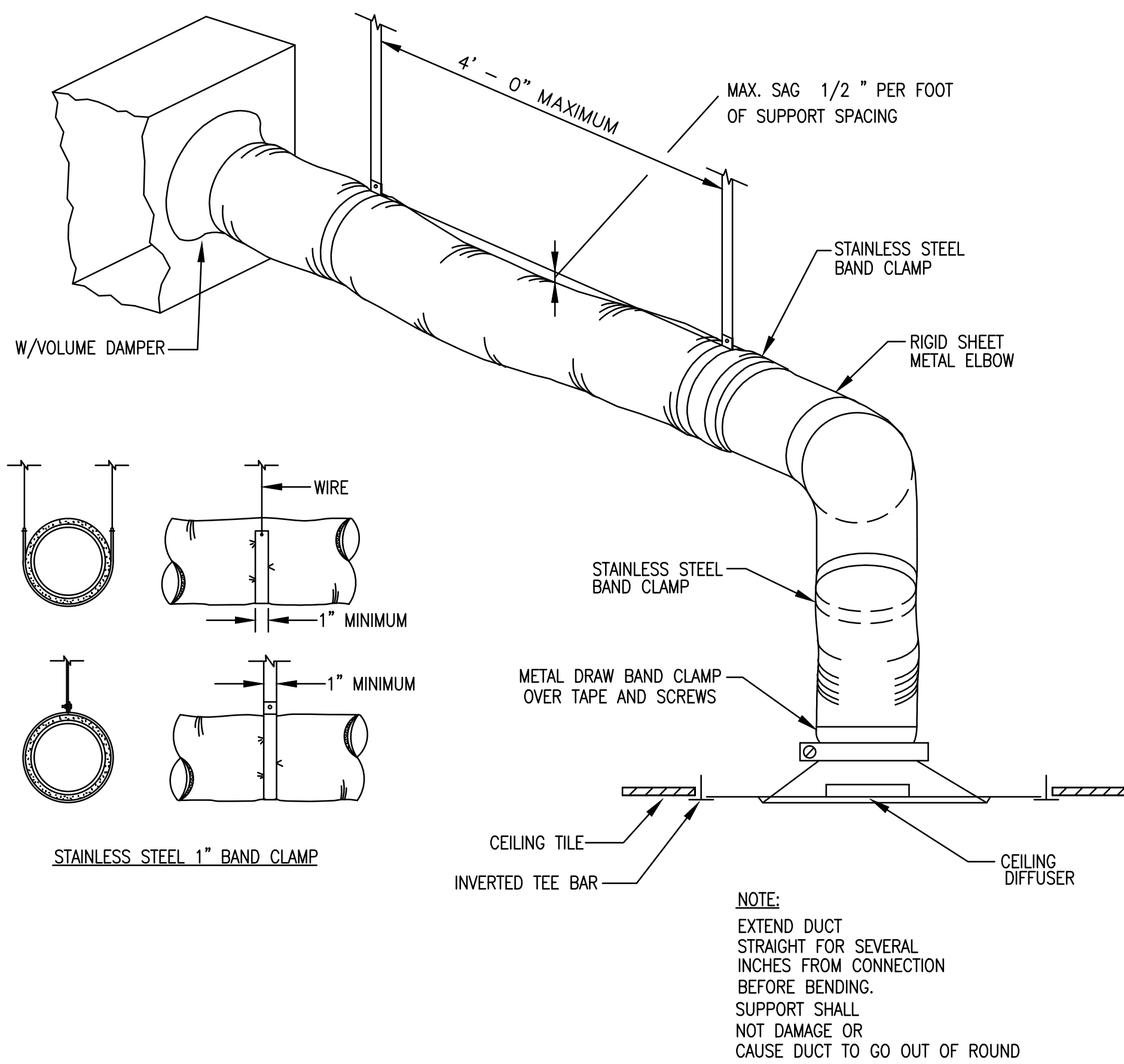
MECHANICAL
DETAILS

M-5

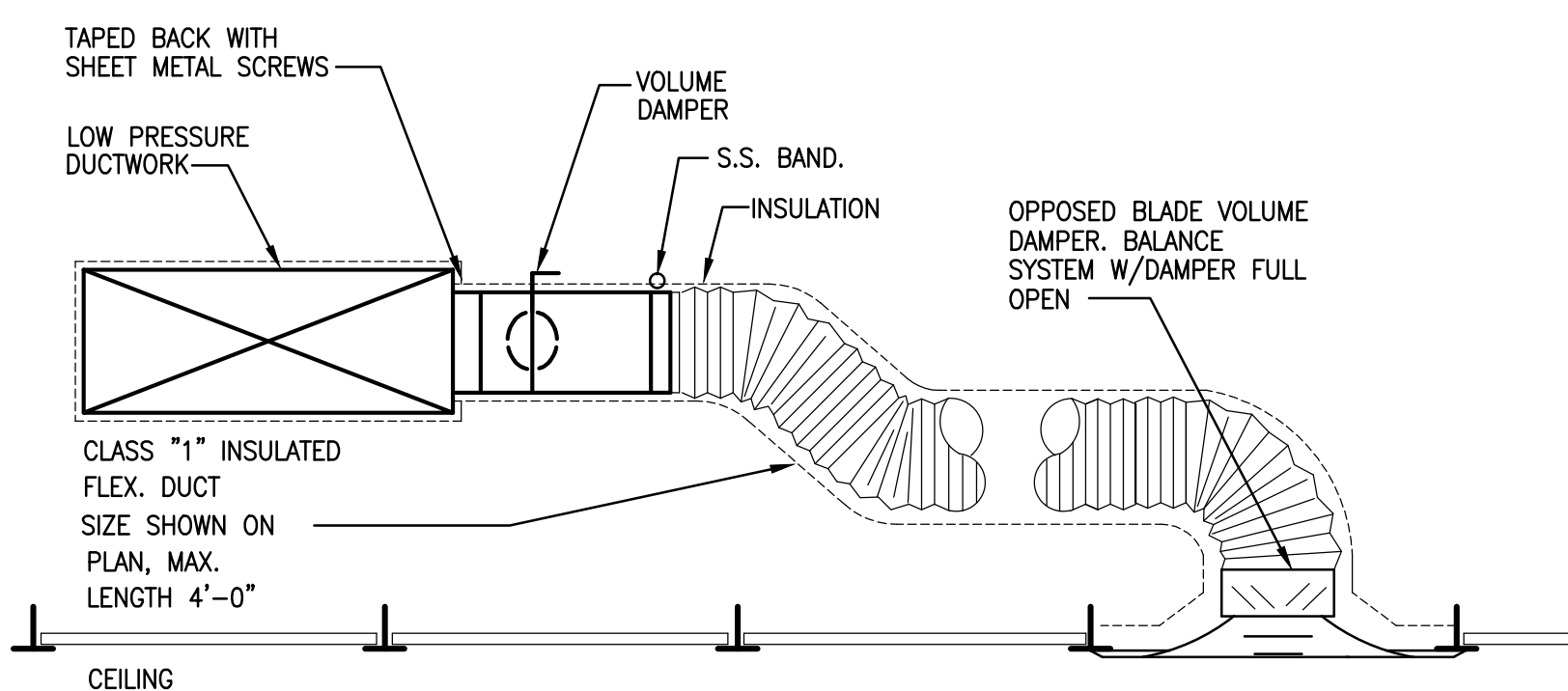
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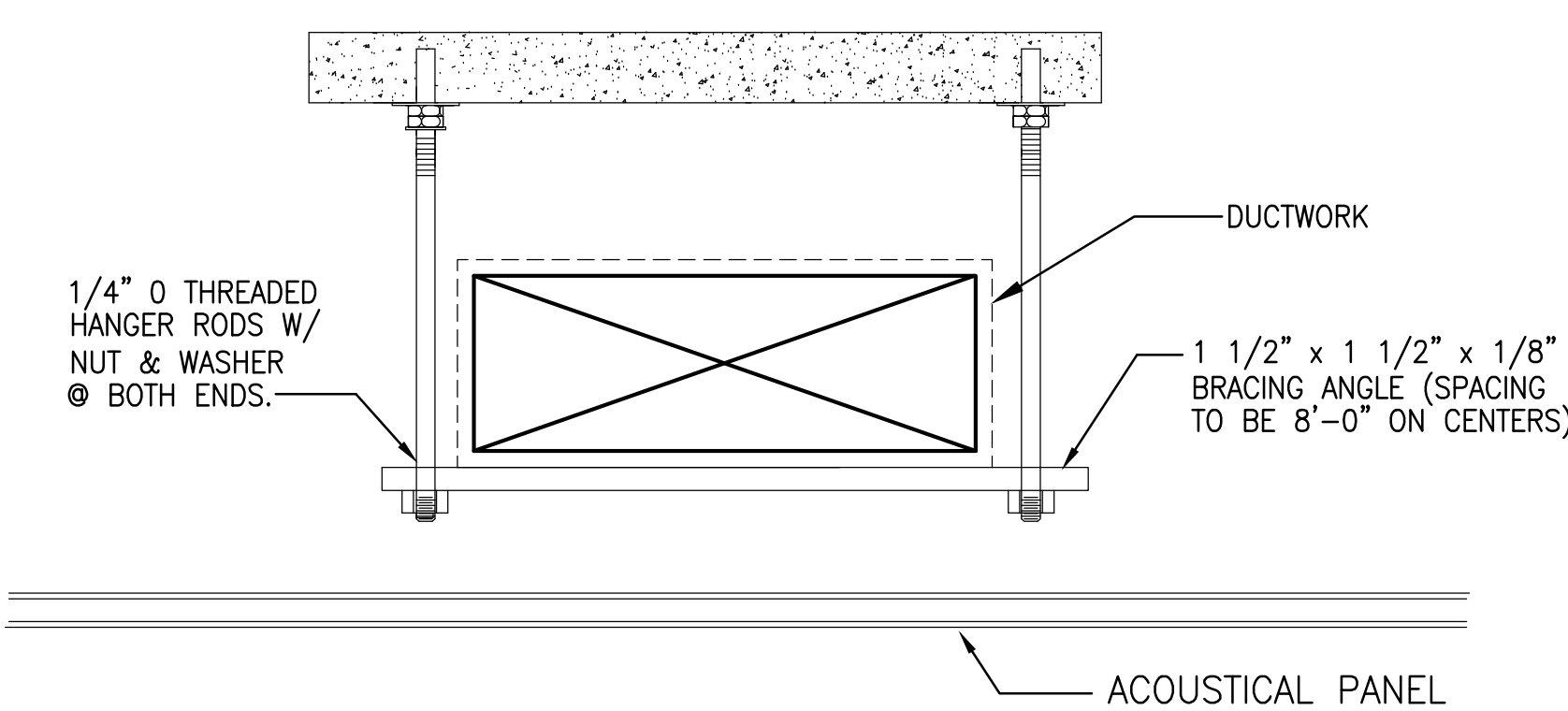
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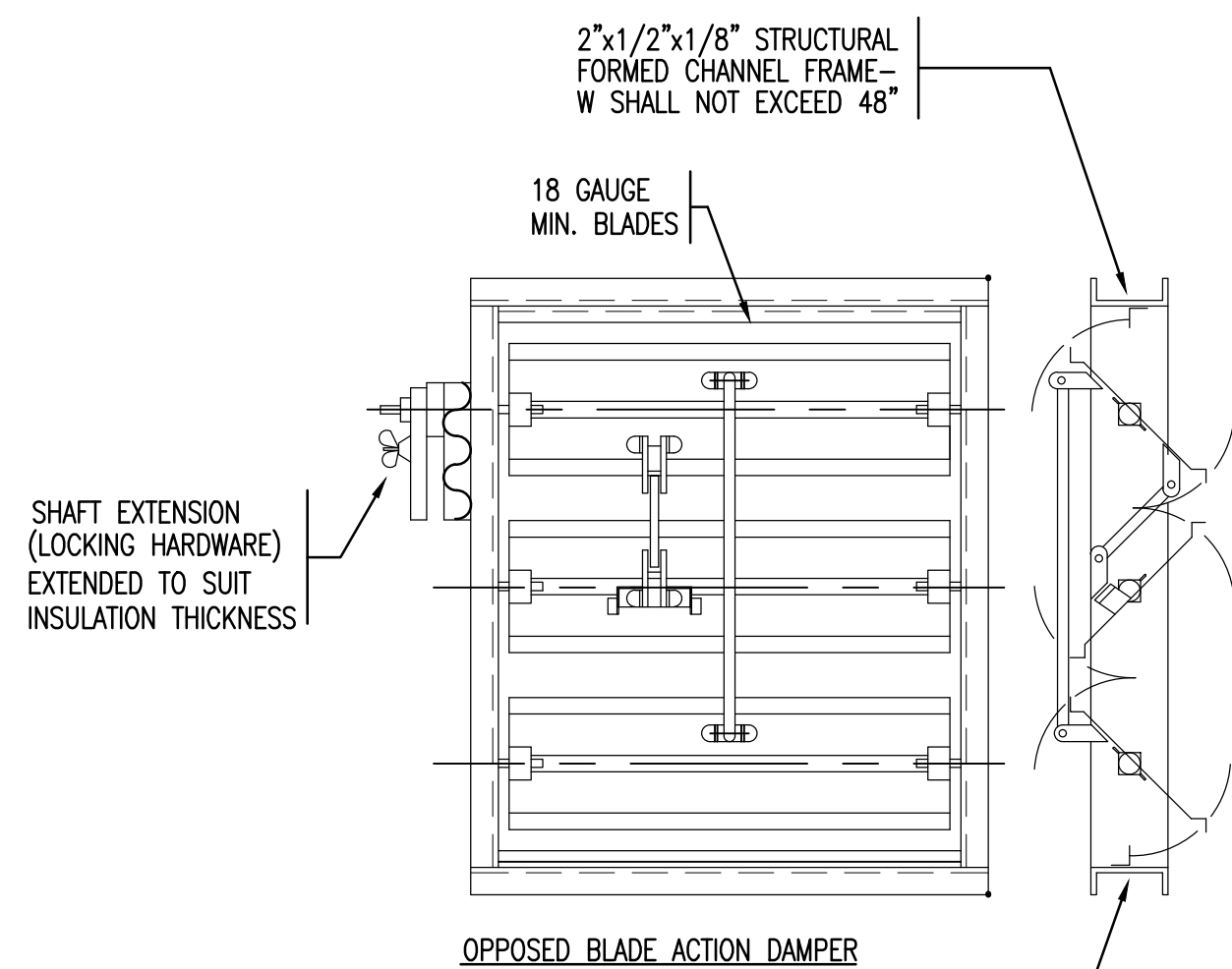
6 FLEXIBLE DUCT CONNECTION AND SUPPORTS AT DIFFUSER



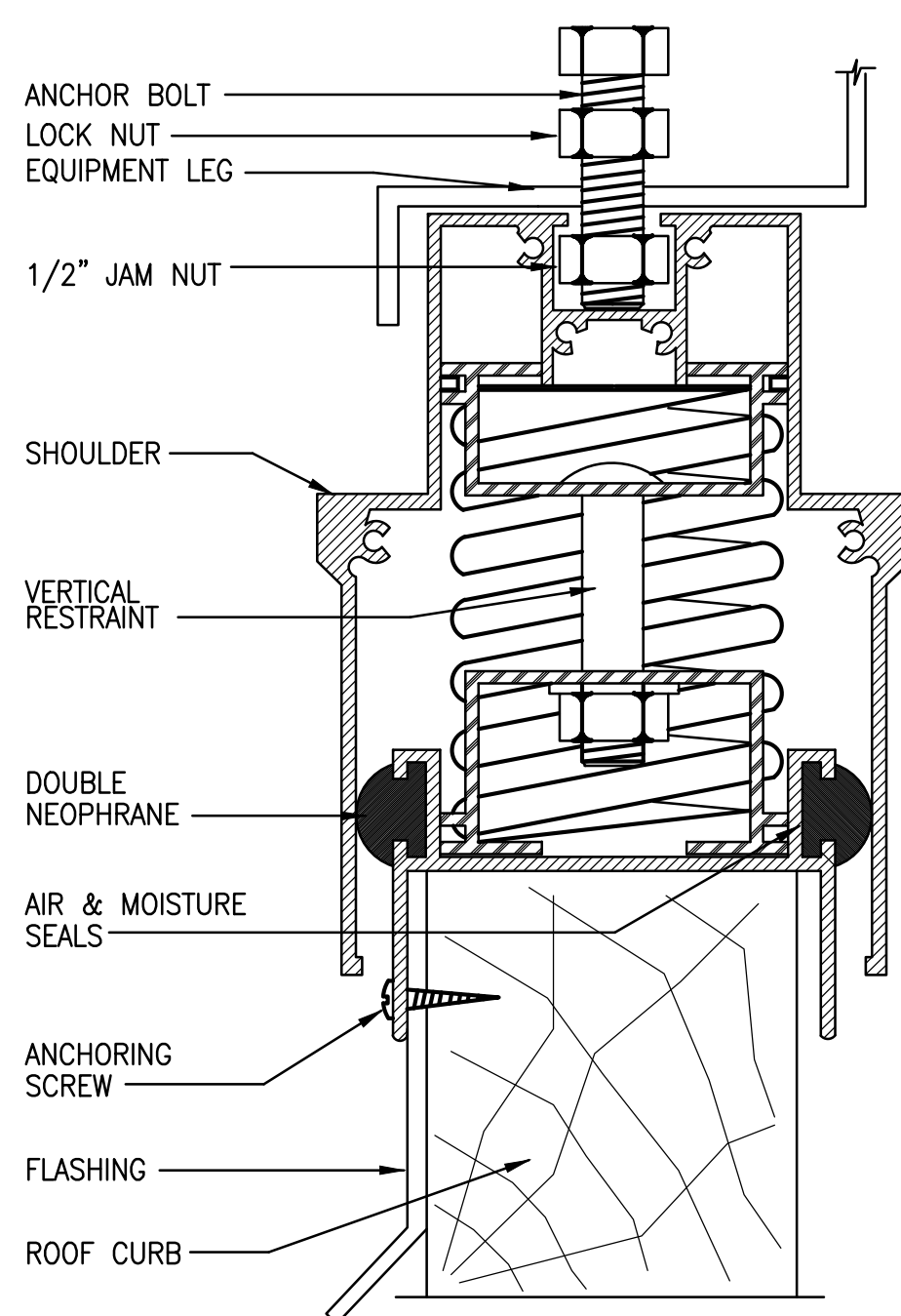
7 DIFFUSER CONNECTION DETAIL



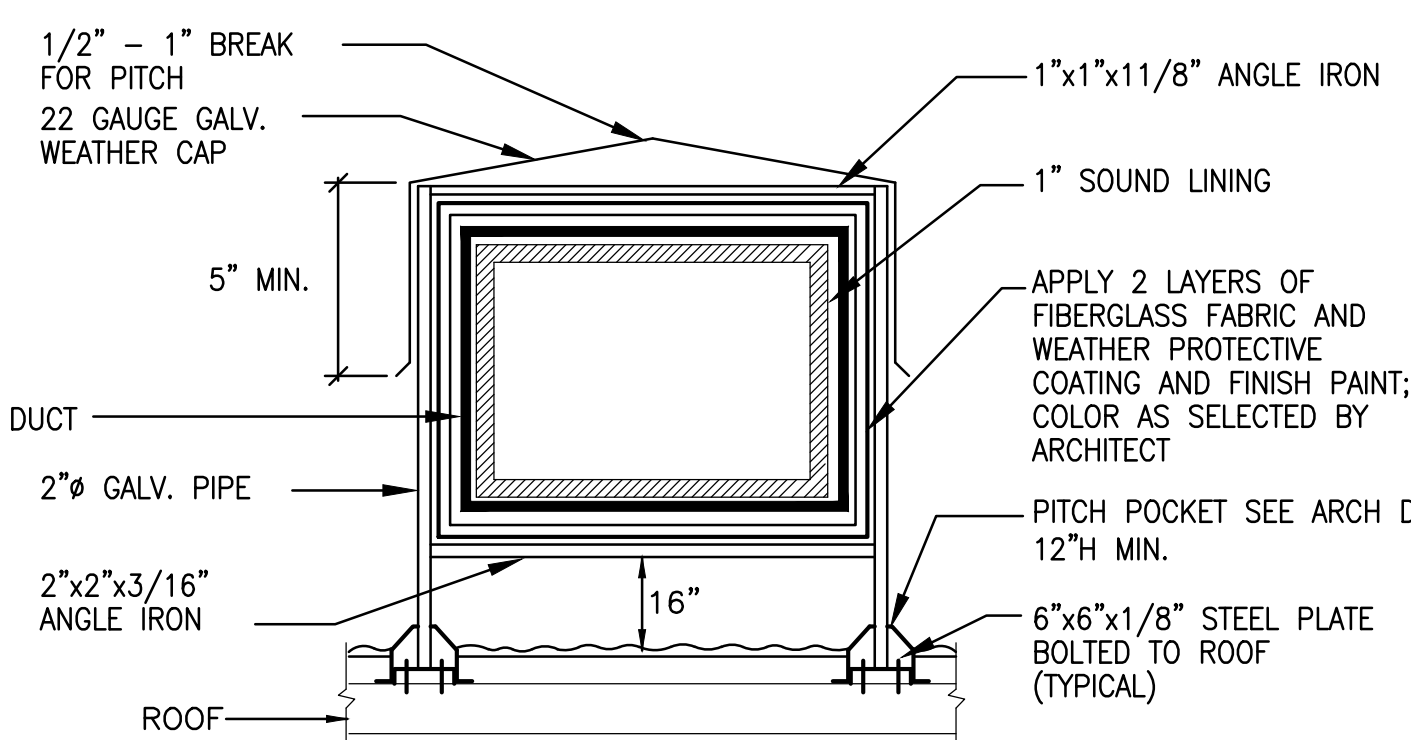
9 DUCT HANGING DETAIL



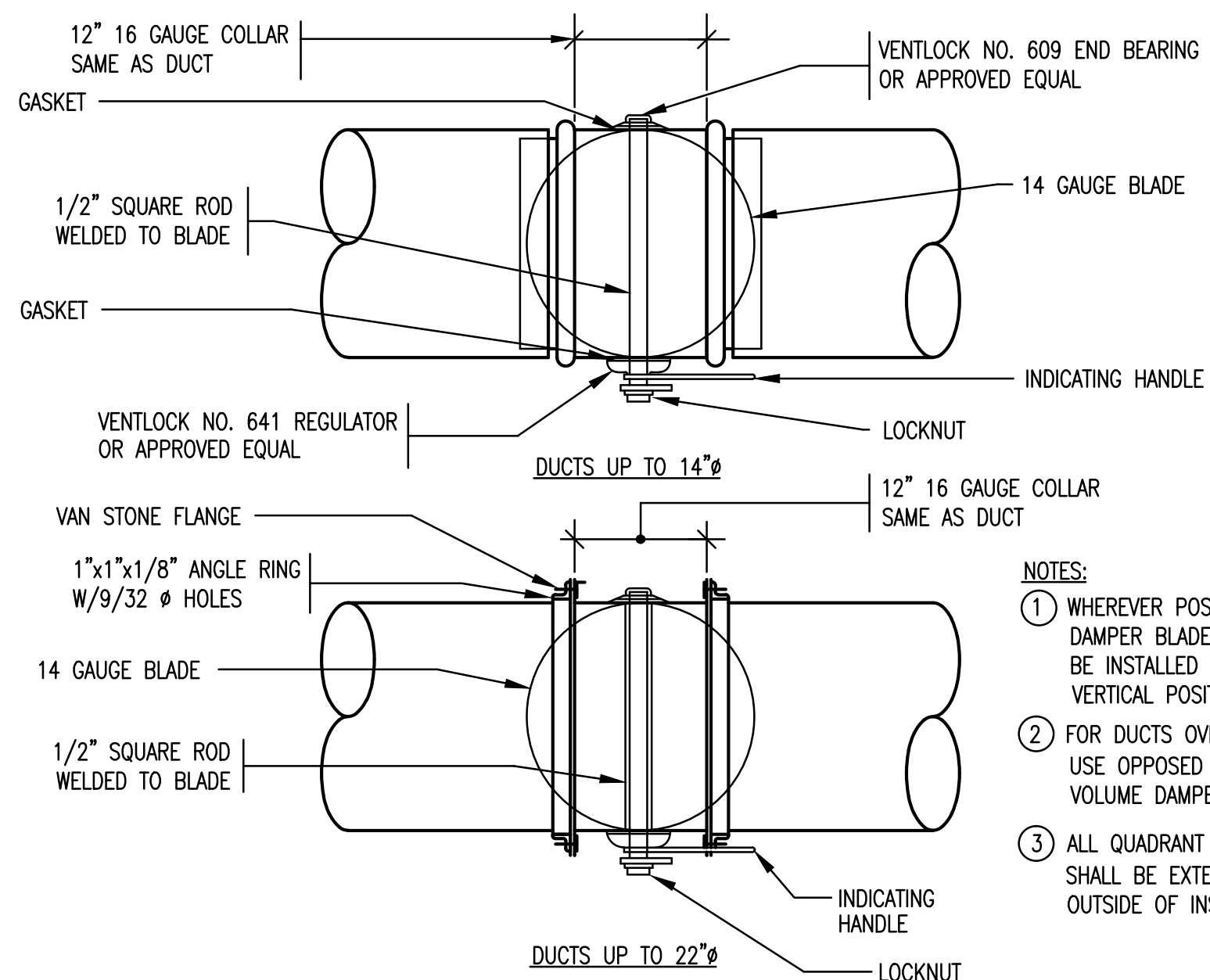
8 OPPOSED BLADE VOLUME DAMPER (OBD)



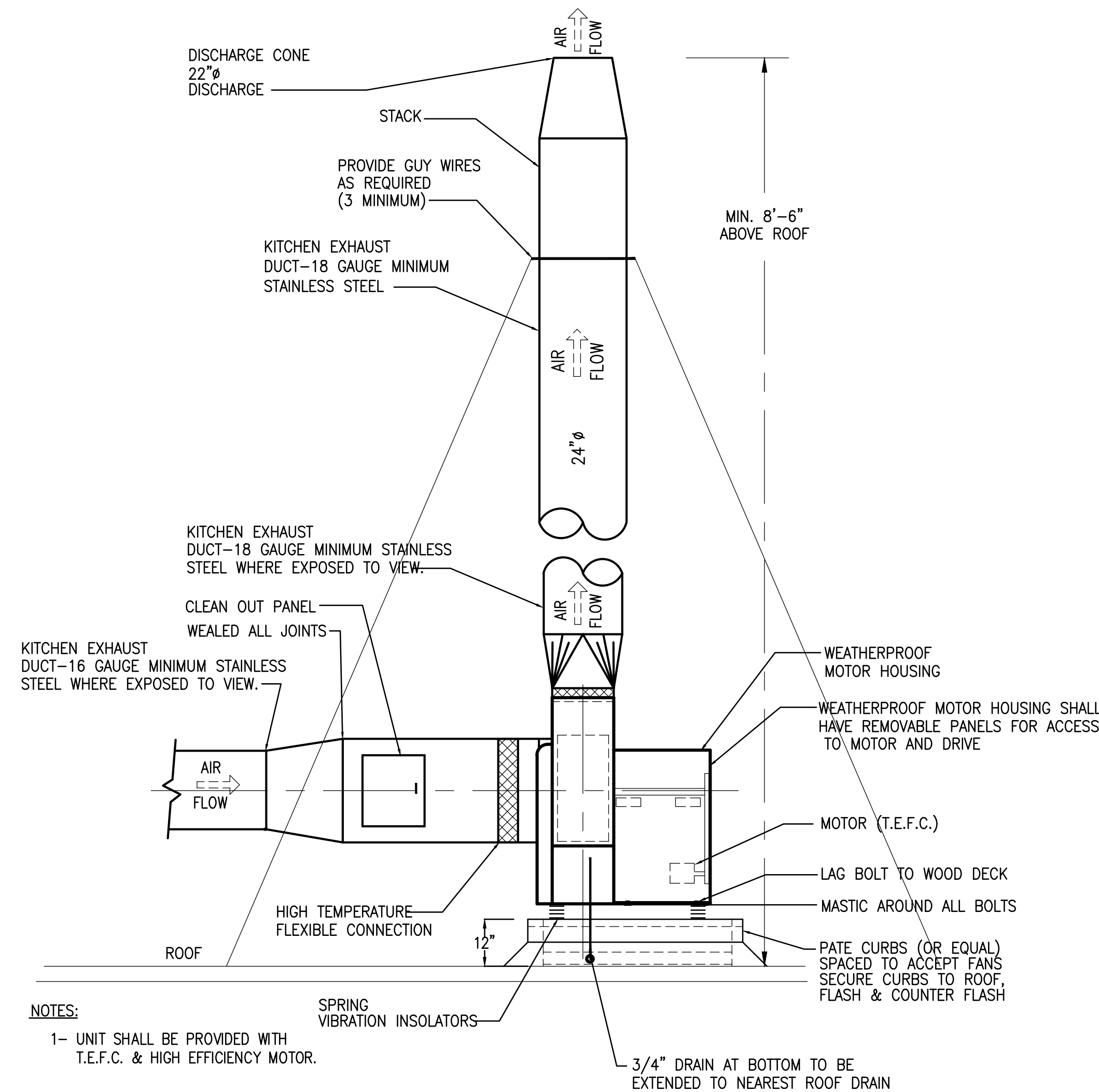
3 ROOFTOP UNIT VIBRATION ISOLATION RAIL DETAIL



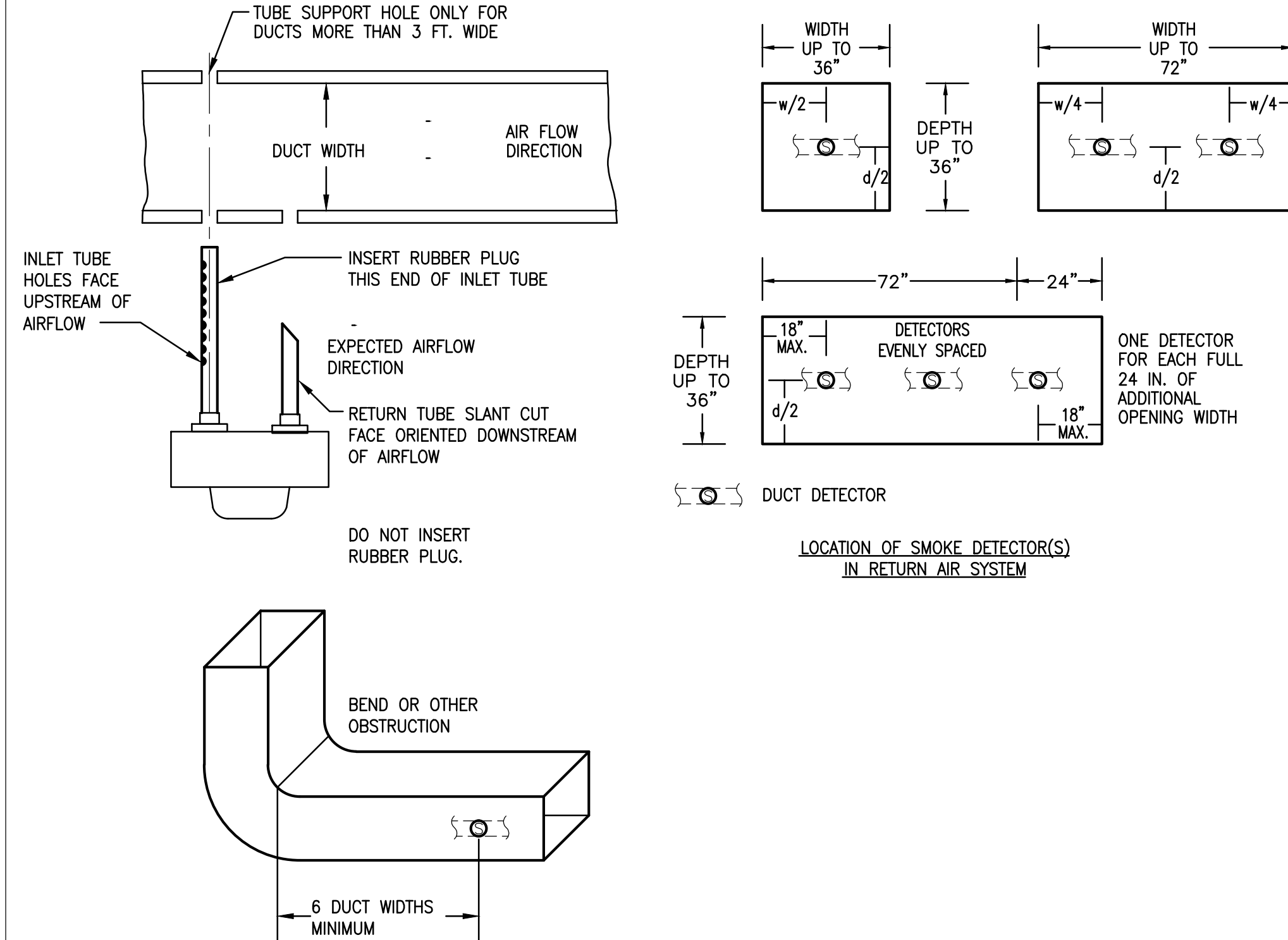
4 ROOF MOUNTED DUCT SUPPORT DETAIL



5 ROUND VOLUME DAMPER



1 UTILITY VENT SET EXHAUST FAN DETAIL



2 DUCT SMOKE DETECTOR INSTALLATION DETAIL

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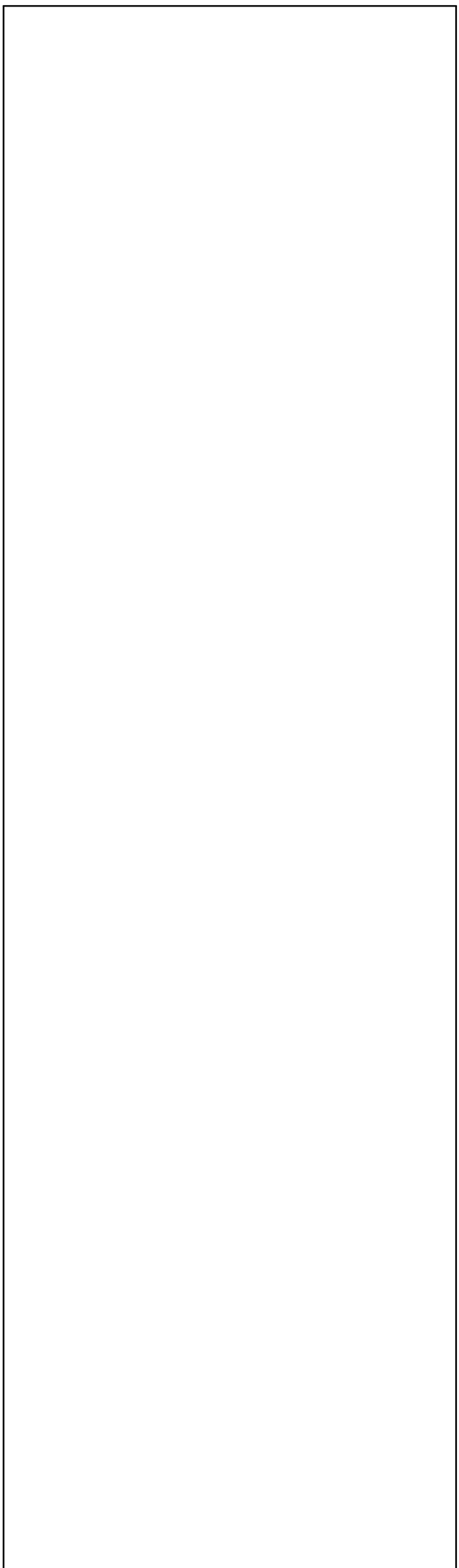
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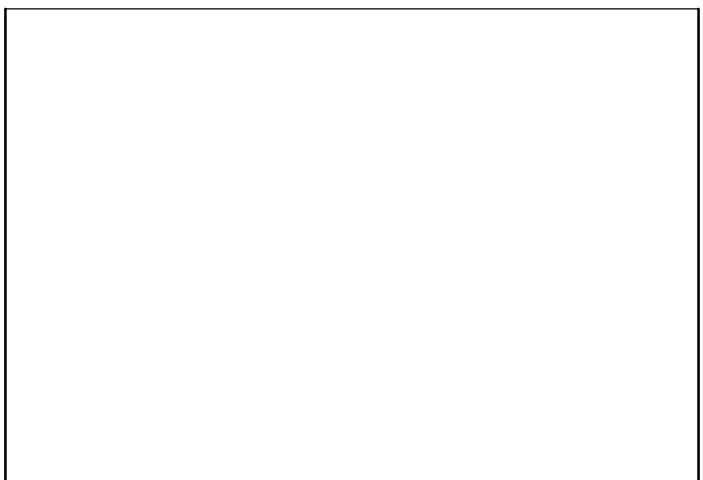
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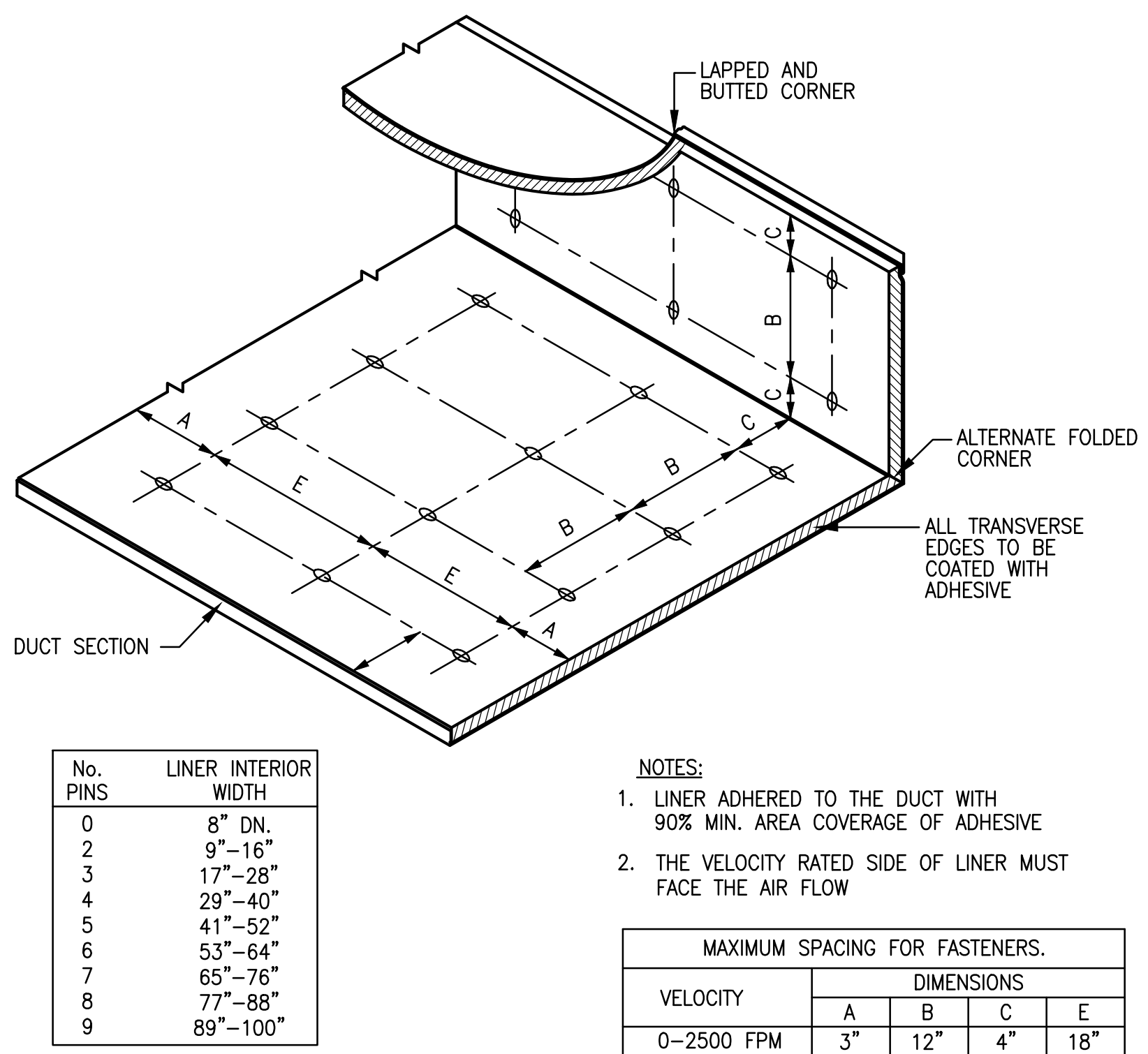
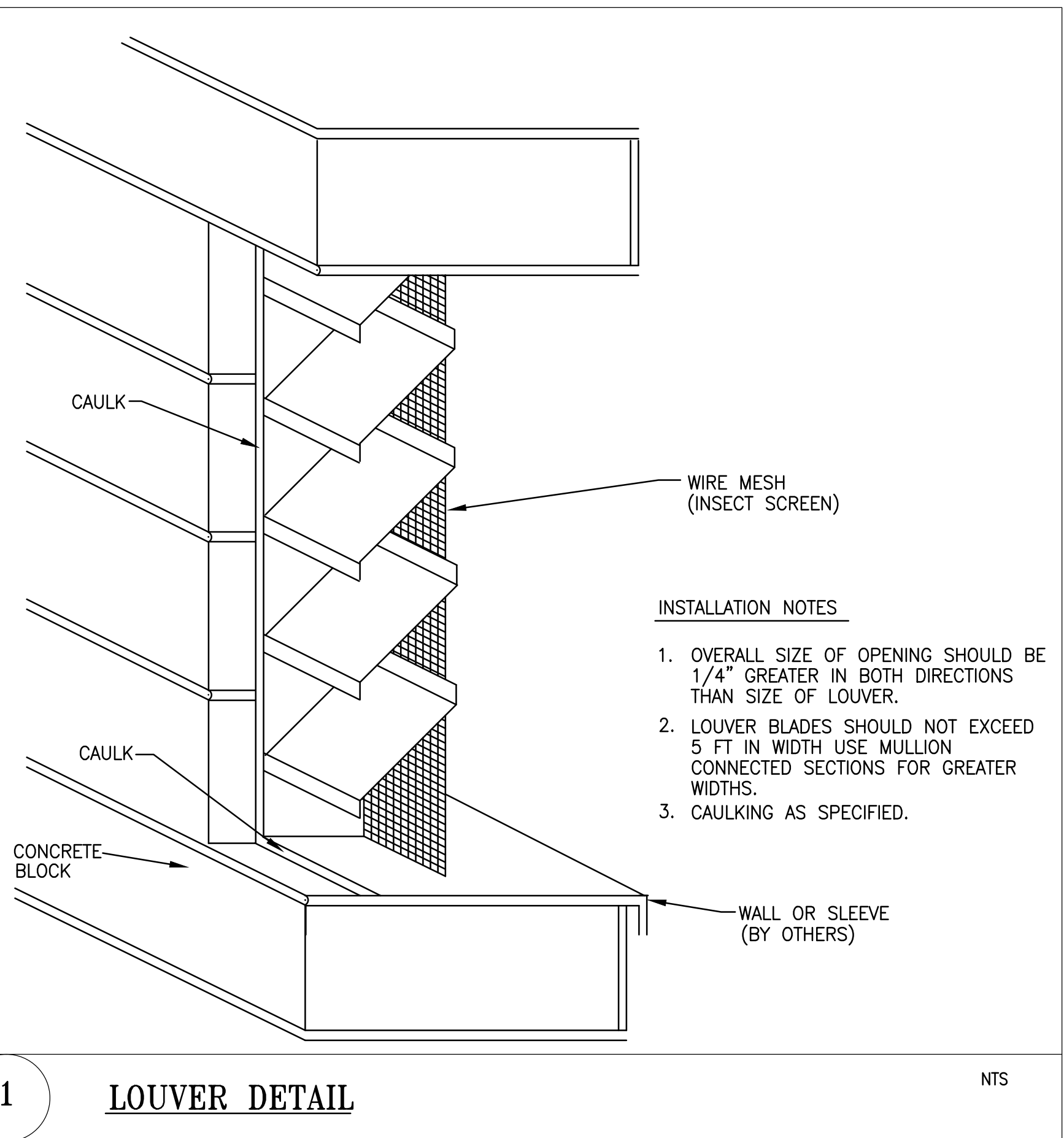
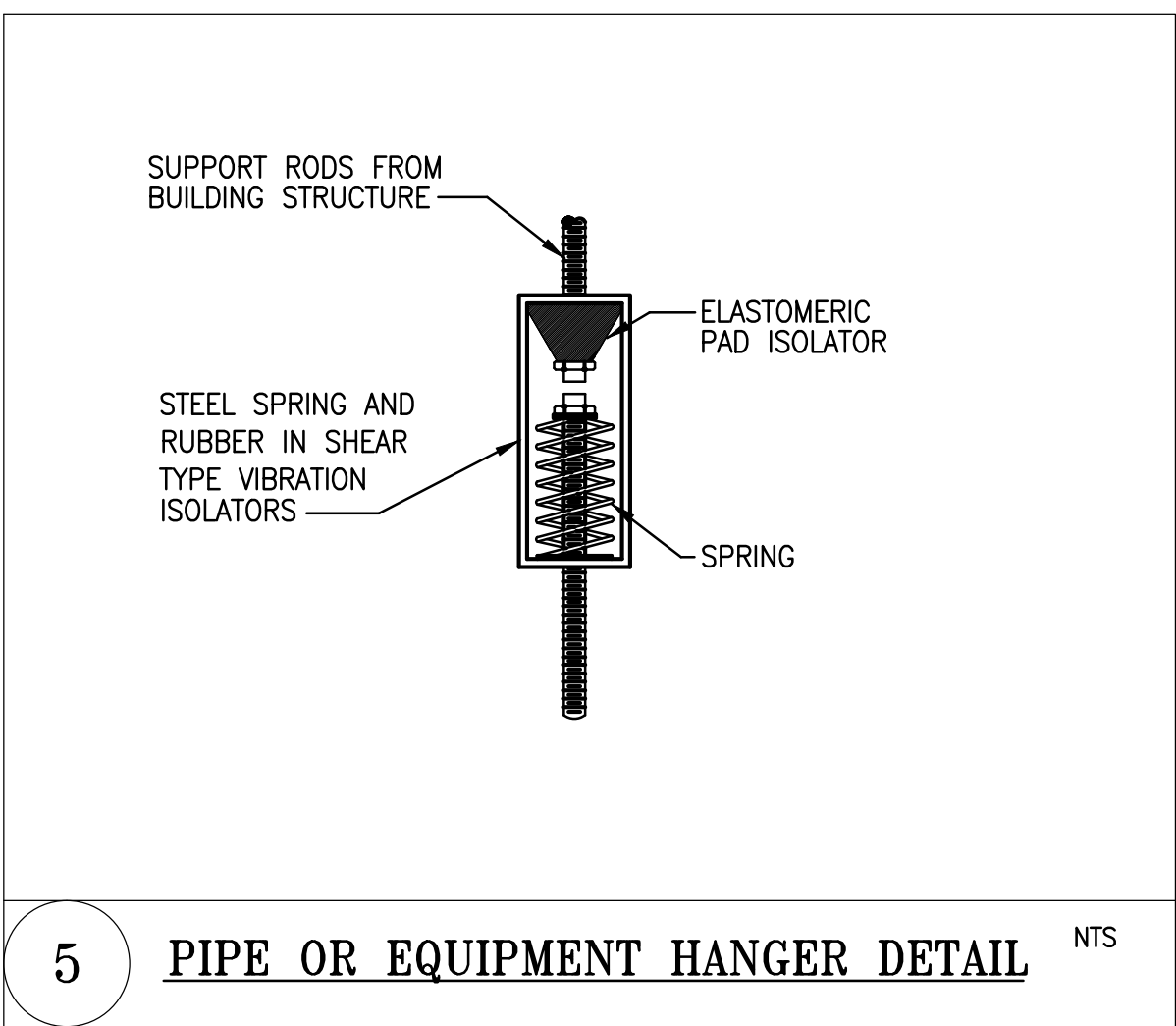
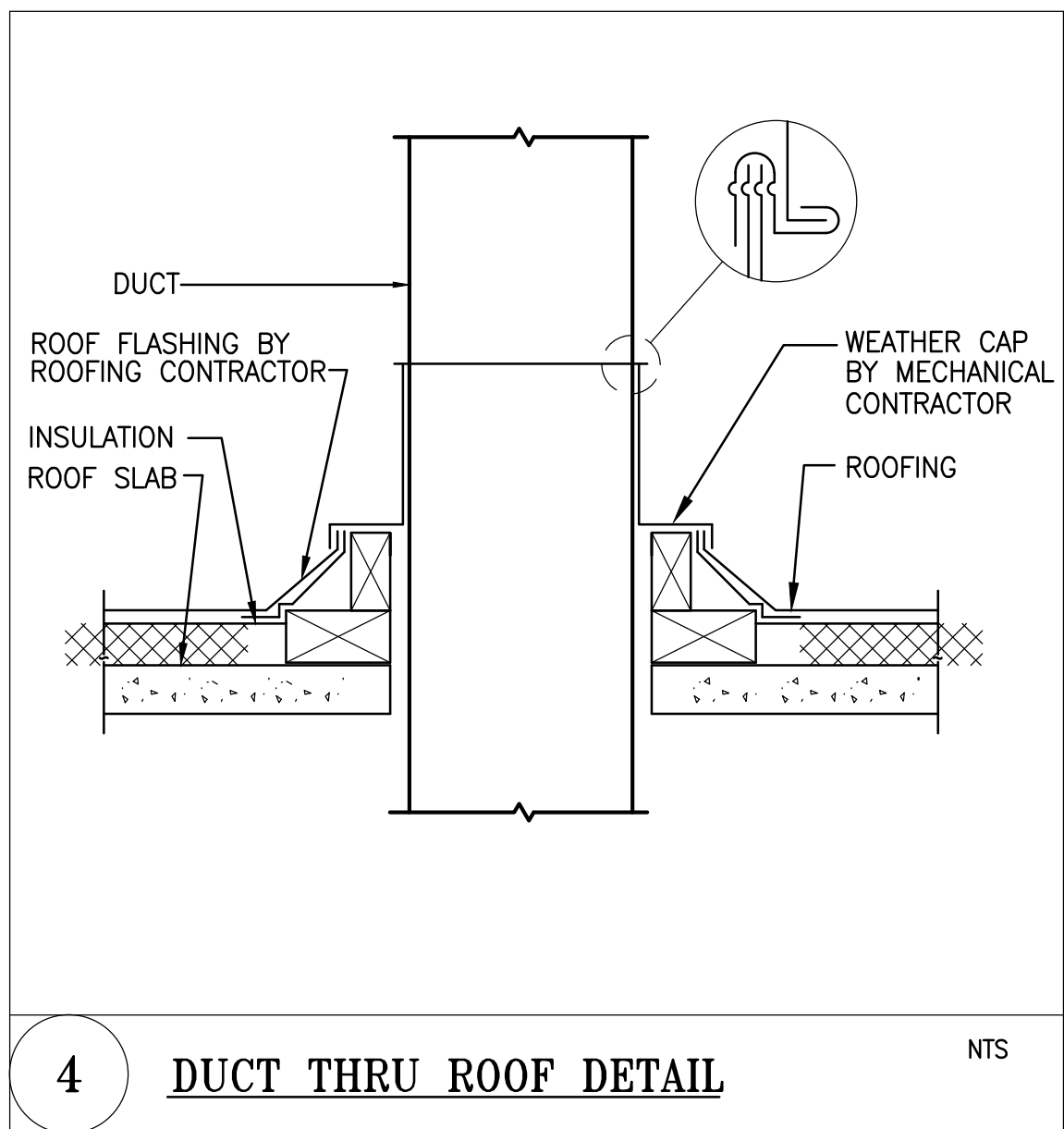
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1	ISSUE FOR PERMIT	02/26/2014



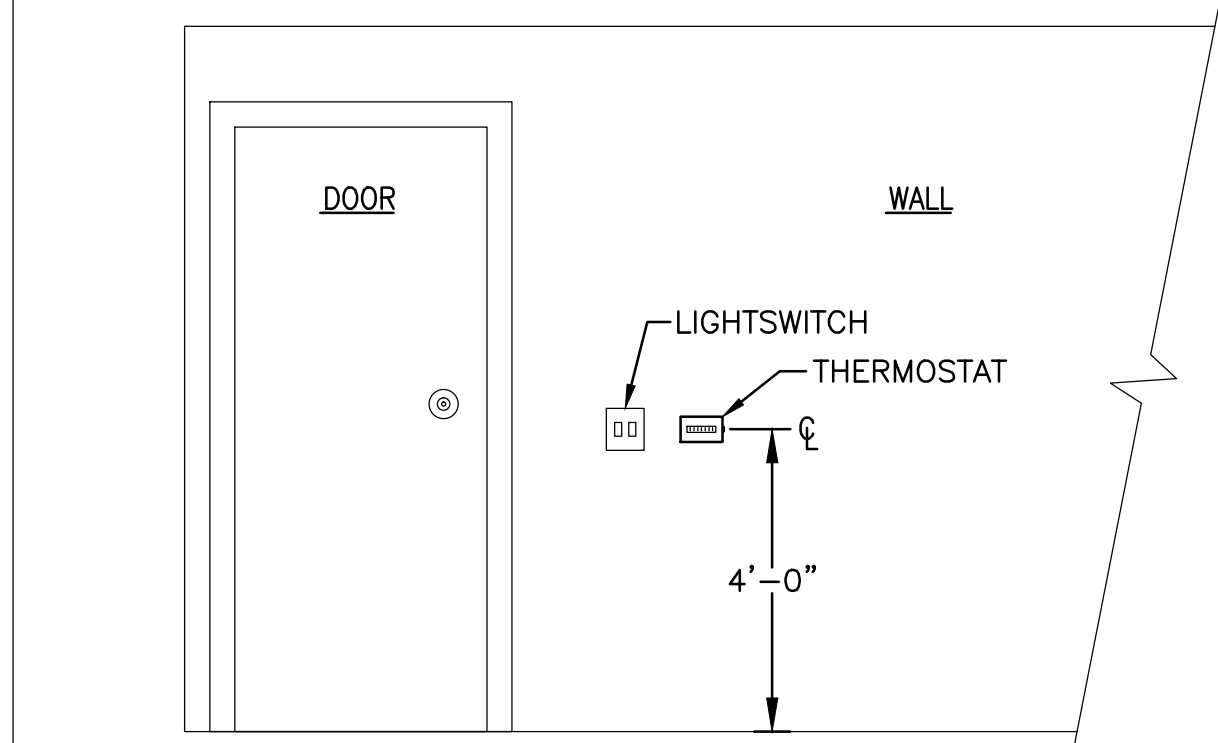
MECHANICAL
DETAILS

M-7

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2 DUCT LINER INSTALLATION DETAIL NTS

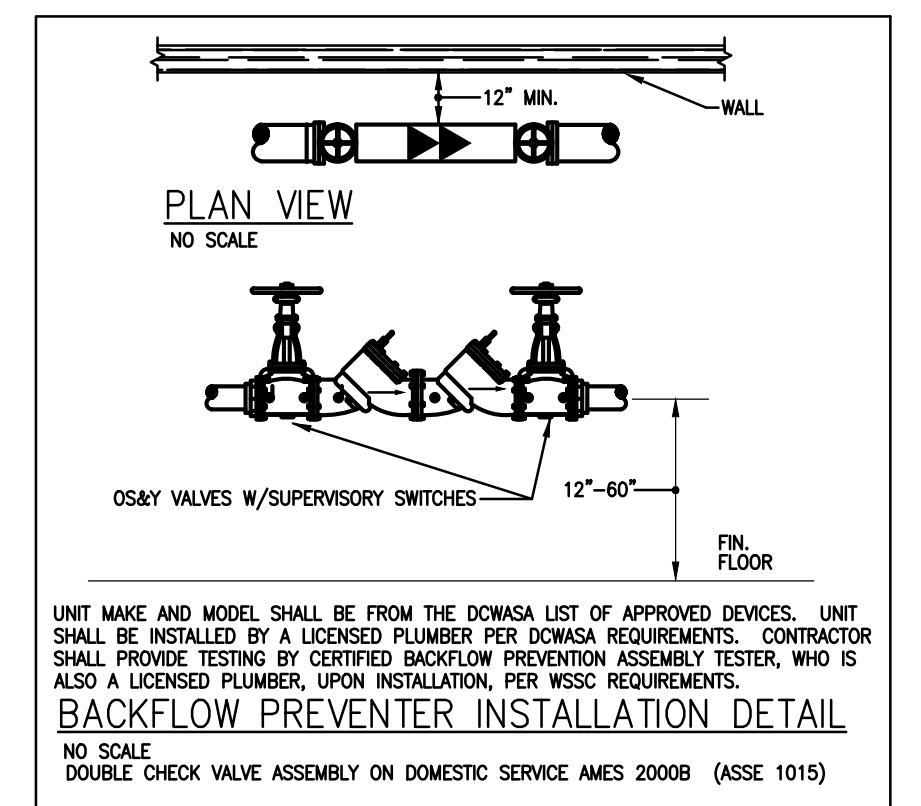
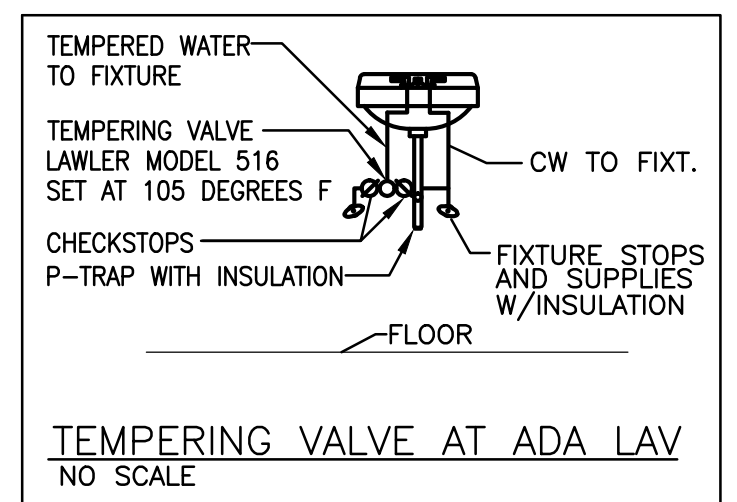
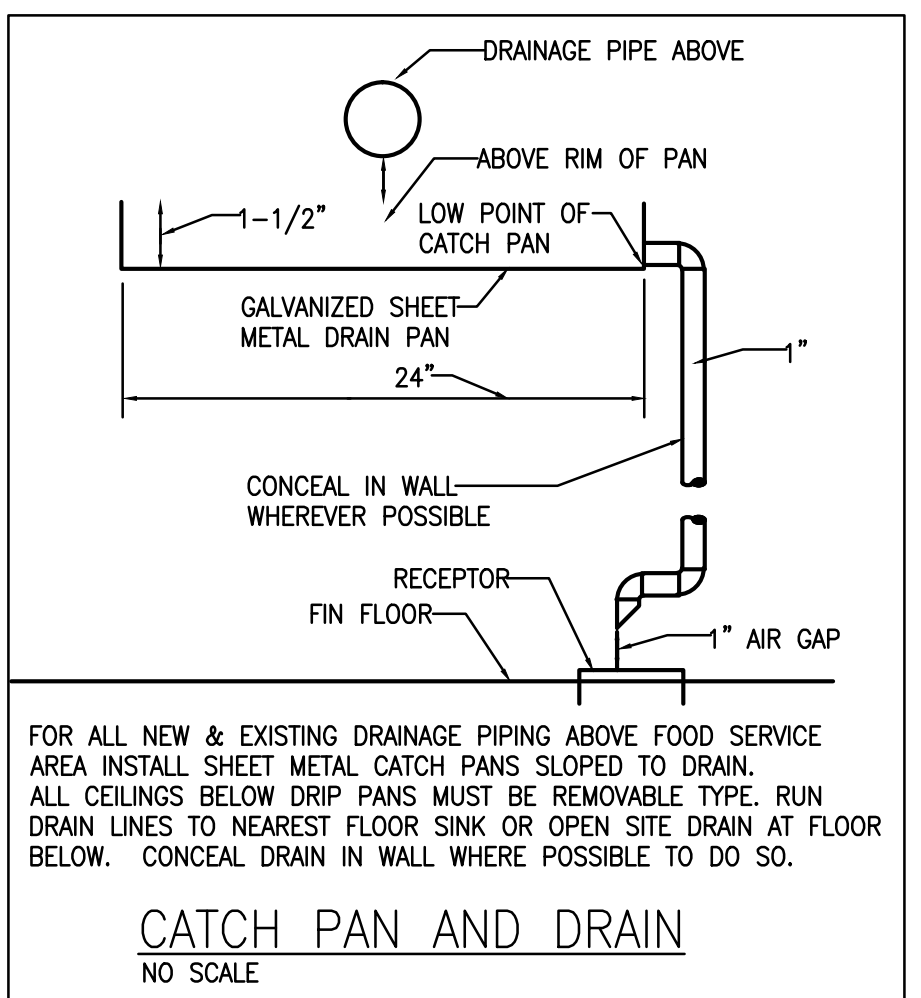
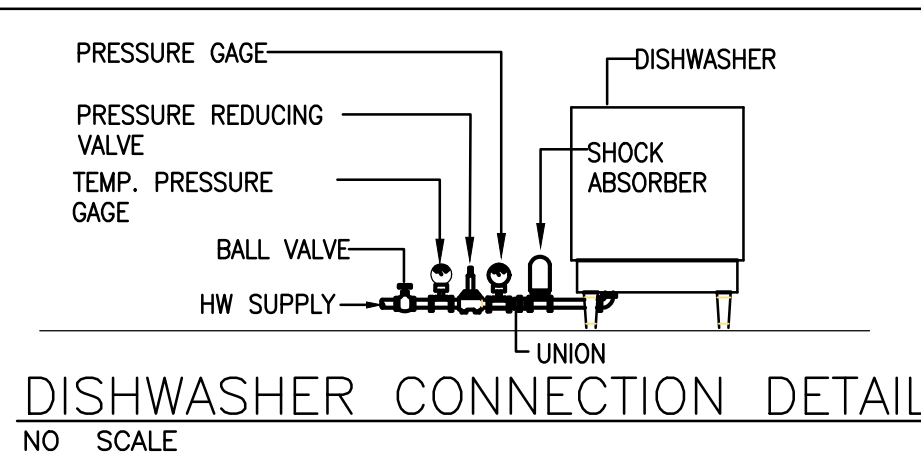


GENERAL NOTES

1. **SCOPE:**
 - A. PROVIDE AND INSTALL A COMPLETE PLUMBING, FIRE SPRINKLER SYSTEM AS INDICATED ON THE GENERAL NOTES AND SUBMITTALS AND THE SCHEDULES.
 - B. APPLICABLE CODES AND REGULATIONS.
 - C. ALL WORK SHALL BE PROVIDED IN ACCORDANCE WITH THE FOLLOWING LATEST CODES AND REGULATIONS:
 1. INTERNATIONAL PLUMBING CODE, ALL OTHER LOCAL APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION, AND LOCAL AMENDMENTS.
2. **NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) RATING:**
 - A. REGARDLESS OF EXISTING CONDITIONS, CONTRACTOR IS RESPONSIBLE TO MEET OR EXCEED ALL CODES AS DELINEATED BY AUTHORITY HAVING JURISDICTION.
 - B. SHOULD EXAMINER OF WORK OR MATERIALS OR WITH THE GENERAL NOTES, AND UNLESS OTHERWISE ORDERED IN WRITING, SHALL BE FURNISHED AND INSTALLED.
 - C. IF FIRE PROOF OR FIRE RESISTANT IS REQUIRED IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF SUCH ERRORS OR OMISSIONS IN WRITING, IF THE CONTRACTOR FAILS TO DO SO, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE RESULTS OF SUCH ERRORS AND OMISSIONS AND FOR THE COST OF RECTIFYING THE SAME.
 - D. IF CEILING SPACE IS A RETURN AIR PLenum, ALL WORK (EXISTING, RELATED AND NEW) SHALL BE CONFORM TO ALL APPLICABLE CODES.
3. **PERMIT:**
 - A. THIS CONTRACTOR SHALL PAY ALL REQUIRED FEES AND SHALL OBTAIN ALL NECESSARY PERMITS AND LICENSES FOR INSTALLATION OF THE WORK, COMPLETE.
4. **EXISTING CONDITIONS:**
 - A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF PLUMBING SERVICES TO OCCUPIED SPACES DURING THE COURSE OF CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF PLUMBING SERVICES TO OCCUPIED SPACES, OPERATIONS OF SUCH SYSTEMS IN OCCUPIED SPACES.
 - B. MAINTAIN ALL EXISTING PLUMBING, PIPING, VALVES, ETC. UNLESS ALL SYSTEM SHUT DOWN SHALL BE DONE AS TO NOT INTERFERE WITH ON-GOING OPERATIONS.
 - C. COVER ALL EXISTING AREAS ABOVE TO PROTECT DUST FROM MIGRATING TO NON-CONSTRUCTION AREAS.
5. **VERIFY EXISTING CONDITIONS:**
 - A. THE CONTRACTOR SHALL VISIT THE SITE AND SHALL FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS. EQUIPMENT, FINISHES, ETC. PRIOR TO THE START OF WORK. IF ANY DISCREPANCY IS DETECTED, IT SHOULD BE BROUGHT TO THE ARCHITECT'S ATTENTION WITH RECOMMENDATIONS FOR PROPER CORRECTIONS FOR THE ARCHITECT'S APPROVAL.
6. **EXISTING SERVICES:**
 - A. PRIOR TO THE START OF WORK, CONTRACTOR SHALL OBTAIN THE BUILDING OWNER'S PERMISSION IN WRITING TO EXISTING CONDITIONS OF EXISTING SERVICES OR CONNECTION TO THE SAME. PRIOR TO DISCONNECTING EXISTING FIRE PROTECTION SERVICES OR REMOVAL OF BUILDING OWNER'S MATERIALS, CONTRACTOR SHALL NOTIFY THE BUILDING OWNER IN WRITING OF SUCH SERVICES. CONTRACTOR SHALL SECURE WRITTEN COPY OF NOTIFICATION, AND HAVE ALL REQUIRED MATERIALS AND EQUIPMENT READY FOR SUCH SERVICES. (LENGTH OF INTERRUPTION OF FIRE PROTECTION SERVICES SHALL BE AS AGREED IN WRITING BETWEEN OWNER AND CONTRACTOR).
8. **EXISTING WORK:**
 - A. ALL EXISTING PIPING INDICATED ON THIS SET OF DOCUMENTS IS DRAIN FROM CONJUNCTURE AND SPECIFICATION ONLY. ALL EXISTING CONDITIONS:
 1. ALL STAGES, RISERS, LATERALS, MAINS, BRANCHES, AND RUNS SHALL BE LOCATED IN THE FIELD AND VERIFIED FOR SIZE, CONDITION, DIMENSIONS, CAPACITIES, AND PERFORMANCE AS REQUIRED. WHEREVER IT IS FOUND THAT THE EXISTING PIPING IS INADEQUATELY SIZED OR ABOUT TO FAIL, NOTIFY THE ARCHITECT IN WRITING IMMEDIATELY FOR INSTRUCTIONS.
9. **CUTTING AND PATCHING:**
 - A. WHERE IT IS NECESSARY TO CUT FLOORS, WALLS OR CEILINGS FOR THE INSTALLATION OF ANY PLUMBING WORK, SUCH CUTTING SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR. ALL AFFECTED AREAS SHALL BE PATCHED BY THE GENERAL CONTRACTOR TO MATCH THE ORIGINAL CONDITION AND APPEARANCE. BEFORE ANY CUTTING AND PATCHING TAKES PLACE, THE CONTRACTOR SHALL OBTAIN THE APPROVAL OF THE ARCHITECT. ALL CUTS, CORE DRILLING SHALL NOT BE DONE UNLESS THE AREA TO BE DRILLED IS X-RAYED AND WRITTEN APPROVAL IS OBTAINED FROM THE PROJECT STRUCTURAL ENGINEER.
10. **INSTALLATION:**
 - A. INSTALLATION OF PLUMBING FIXTURES, PIPING, VALVES, ETC. SHALL BE DONE IN LINE AND WORKMANLIKE MANNER, AND SHALL CONFORM TO THE LATEST TRADE PRACTICES.
 - B. DRAWINGS: THE PLUMBING DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT. THE ARCHITECTURAL AND ALL OTHER RELATED DISCIPLINE'S DRAWINGS SHALL BE EXAMINED FOR EXACT LOCATION OF FIXTURES AND EQUIPMENT. THE CONTRACTOR SHALL FOLLOW DRAWINGS IN LAYED OUT AND SHALL BE RESPONSIBLE TO COORDINATE WITH ALL TRADES TO VERIFY SPACES IN WHICH WORK WILL BE INSTALLED.
 - C. WHERE THE WORK OF THE CONTRACTOR SHALL BE INSTALLED IN CLOSE PROXIMITY OR INTERFERE WITH WORK OF OTHER TRADES, THE CONTRACTOR SHALL ASSIST IN WORKING OUT SPACE CONDITIONS TO MAKE A SATISFACTORY ADJUSTMENT. IF THE CONTRACTOR INSTALLED THIS WORK BEFORE COORDINATING, CAUSING INTERFERENCE WITH WORK OF OTHER TRADES, HE SHALL MAKE THE NECESSARY CHANGES IN THE WORK TO CORRECT THE CONDITION WITHOUT EXTRA CHARGE.
 - D. THE CONTRACTOR SHALL GIVE FULL COOPERATION TO OTHER TRADES AND ALLOW THE WORK OF ALL TRADES TO BE INSTALLED SATISFACTORILY AND WITH THE LEAST POSSIBLE INTERFERENCE OR DELAY.
11. **CLEANING:**
 - A. ALL MATERIALS NOT TO BE USED SHALL BE REMOVED FROM SITE AND ALL DEBRIS SHALL BE CLEANED AND THE AREA OF WORK SHALL BE LEFT IN CLEAN CONDITION.
12. **INSULATION:**
 - A. PROVIDE INSULATION FOR PIPING, AND EQUIPMENT OF TYPES AND THICKNESS SPECIFIED HEREIN. INSULATION SHALL HAVE A FLAME SPREAD RATING NOT EXCEEDING 250 AND A SMOKE DEVELOPED RATING NOT EXCEEDING 25. THE INSULATION INSULATION IN STRICT CONFORMANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. A CONDENSED VAPOR BARRIER SHALL BE PROVIDED ON ALL COLD WATER PIPING AND COLD AIR DUCTWORK. INSULATION SHALL BE INSTALLED, COMPACTED, OVER-CORING OR JOINTS-WANVILLE.
 - B. FLEXIBLE ELASTIC THERMAL INSULATION, SUCH AS ARISTOWELL ARWELLY R.
 - C. FOR THE SERVICES INDICATED USE INSULATION THICKNESSES AND TYPES AS FOLLOWS:
 1. DOMESTIC COLD WATER PIPE - 1/2" THICK
 2. DOMESTIC HOT WATER RECIRC. LESS THAN 1-1/2" DIAMETER - 1/2" THICK
 3. DOMESTIC HOT WATER RECIRC. 1-1/2" AND LARGER - 1" THICK
 4. DOMESTIC HOT WATER RECIRC. 1-1/2" AND LARGER - 1" THICK
 - D. NOTE: RECIRC PIPING INCLUDES DRAIN HOT WATER LOOP FROM HOT DISCHARGE AT WATER HEATER TO COLD WATER INLET.
 - E. INSULATE ALL ROOF DRAIN BOODIES WITH 1" THICK JOINTS WANNVILLE MICRO-LOX OR EQUIVALENT. INSULATE ALL VENT PIPES AND AIR VENT PIPES ABOVE INSULATED CEILING WITH 1/2" THICK JOINTS WANNVILLE MICRO-LOX FIBER GLASS INSULATION OR EQUIVA.

13. **PLUMBING SYSTEMS:**
 - A. ALL SANITARY WASTE PIPING SHALL BE RUN AT 1/4" PER FT. SLOPE UNLESS OTHERWISE INDICATED.
 - B. ALL PIPING SHALL BE INSTALLED ABOVE CEILING OR IN A CONCEALED SPACE, UNLESS OTHERWISE INDICATED.
14. **PLUMBING FIXTURES:**
 - A. PROVIDE AND INSTALL, ALL WASTE AND SUPPLY PIPES TO ALL THE FIXTURES AND EQUIPMENT AS INDICATED, ALL EXPOSED TUB SHALL BE CHROME-PLATE. ALL PENETRATIONS THROUGH WALLS AND EXPOSED TO VIEW SHALL BE PROVIDED WITH CHROME-PLATED ESCUTCHEONS.
 - B. PROVIDE AND INSTALL INSULATING TUBES TO COVER ALL UNDERCOUNTER PIPING AT ADA ACCESSIBLE (BARRIER FREE) FIXTURES SUCH AS SINKS AND LAVATORIES.
15. **PIPING:**
 - A. ALL PIPING SHALL BE NEW AND SHALL BE CUT TO EXACT LENGTHS TO SUIT THE FIELD.
 - B. IF DESIGNATED "HARDWARE" DO NOT INSTALL ANY POLYMER MATERIALS. WATER PIPING SHALL BE TYPE L COPPER WATER TUBE, HARD TEMPER (ASA-8-9.99), WITH CAST BRASS OR WROUGHT COPPER LEAD FREE SOLDER JOINT (WATER AND WENT PIPING: STANDARD CAST RNO, NO HUB PIPING WITH CAST RNO FITTING, DWV COPPER PIPING AND FITTINGS AND ACCEPTABLE.
 - C. PROVIDE 1/2" INCH THICK FIBERGLASS PIPE INSULATION FOR HOT AND COLD WATER PIPING.
 - D. PROVIDE FIRE SUPPORTS AND HANGERS FOR ALL PIPES AND INSTALLED SLEEVES FOR PIPES PENETRATING THROUGH WALLS.
 - E. VALVES IN WATER PIPING SHALL BE 125 LB. CAST, BRONZE, SCREWED PATTERN VALVES WITH QUARTERS FOR USE WITH COPPER TUBE. GASKETS SHALL BE 1/16 INCH THICK RED RUBBER TUBE.
 - F. LOCATE VALVES IN ACCESSIBLE LOCATIONS WHEREVER POSSIBLE, ABOVE, SUSPENDED CEILING ETC. IF LOCATED ABOVE OR BEHIND DRIVING CEILING OR WALLS, PROVIDE SIGHT ACCESS PANELS DIRECTLY IN FRONT OF VALVES. LOCATION MUST BE COORDINATED AND APPROVED BY ARCHITECT PRIOR TO INSTALLATION OF PIPING SYSTEM.
16. **TEST OF PLUMBING SYSTEMS:**
 - A. ALL SYSTEMS SHALL BE HYDRAULICALLY TESTED UNDER A PRESSURE NOT LESS THAN 175 PSI. PER SQUARE INCH. DRAINAGE PIPING SHALL BE TESTED AT 107 PSI OF WATER FOR AT LEAST 15 MINUTES.
17. **STERILIZATION:**
 - A. BEFORE ACCEPTANCE FOR DOMESTIC EQUIPMENT EACH UNIT OF COMPLETE WATER DISTRIBUTION SYSTEM SHALL BE DISINFECTED AND STERILIZED.
18. **SHOP DRAWINGS:**
 - A. THE CONTRACTOR SHALL SUBMIT TO THE ARCHITECT/ENGINEER FOR ALL MAJOR EQUIPMENT, FIXTURES, PIPING SYSTEMS, VALVES, DRAINS, INSULATION, FIRE PROTECTION WORK, ETC. FOR DISTRIBUTION, REVIEW AND APPROVAL. PRIOR TO ORDERING.
19. **GUARANTEE:**
 - A. THE CONTRACTOR SHALL HAVE THE ENTIRE PLUMBING SYSTEM INSTALLED UNDER THIS CONTRACT IN PROPER WORKING ORDER AND SHALL WITHOUT CHARGE, REPLACE ANY WORK OR MATERIALS WHICH DEVELOP DEFECTS, EXCEPT ORDINARY WEAR AND TEAR, WITHIN ONE (1) YEAR FROM THE DATE OF FINAL INSPECTION AND ACCEPTANCE BY THE TENANT AND BUILDING MANAGEMENT.

NOTE: PRIOR TO BID, THE CONTRACTOR SHALL INSPECT EXISTING CONDITIONS AND VERIFY THAT THERE ARE NO OBSTRUCTIONS TO THE PIPING SYSTEM. THE EXISTING WORK IS NOT DASHED FOR THE SANITARY HIGH ENOUGH FOR THE NOTES AND THERE ARE NO OBSTACLES OR STRUCTURAL ELEMENTS OBSTRUCTING THE PROPOSED PATH OF NEW WORK. RELIGATION OF EXISTING DUCTWORK TO RUN NEW PIPING SHALL BE INCLUDED IN THIS CONTRACT.

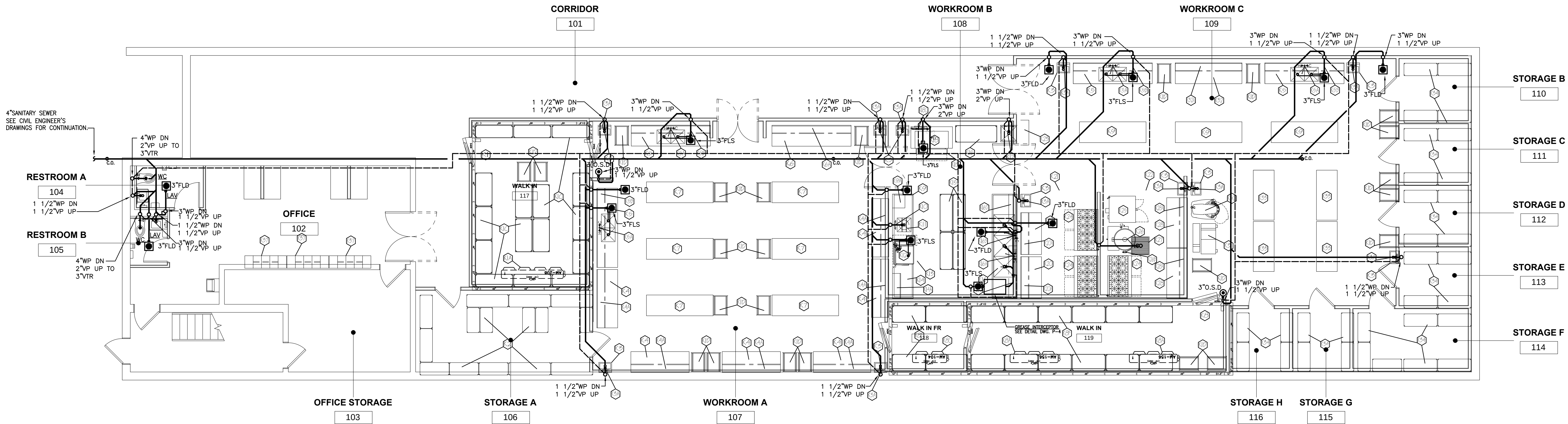


PLUMBING LEGEND		
THIS LEGEND IS A MASTER OF PLUMBING SYMBOLS AND IS NOT INTENDED TO BE A SPECIFICATION OF PRODUCTS FOR THIS PROJECT		
SYMBOL	DESCRIPTION	ABBREVIATION
	SOIL/WASTE PIPE	SP / WT
	STORM PIPE	ST
	VENT PIPE	VP
	COLD WATER PIPE	CW
	HOT WATER PIPE	HW
	HOT WATER CIRCULATING PIPE	HCW
	GAS PIPE	G
	FIRE PROTECTION PIPE	F
	GATE VALVE/BALL VALVE	
	UNDER SCREW AND YOKE VALVE	OS&Y
	CHECK VALVE	
	GAS COCK	
	BALANCING VALVE	
	REDUCED PRESSURE BACKFLOW PREVENTER	RPZBFP
	DOUBLE CHECK W/RE ASSEMBLY BACKFLOW PREVENTER	BFP
	PRESSURE REDUCING VALVE	PRV
	CLEANOUTS	CO
	SHOCK ABSORBER	SA
	FIRE DEPARTMENT CONNECTION	FDC
	WALL HYDRANT/HOSE BIBB	WH/HB
	SOIL STACK	S
	WATER RISER	W
	RAIN LEADER	RL
	FIRE STANDPIPE/RISER	F
	GAS RISER	G
	FLOOR DRAIN	FLD
	FLOOR SINK	FLS
	ROOF DRAIN	RD
	EMERGENCY OVERFLOW DRAIN	OFL
	DOWNSPOUT BOOT	DSB
	VENT THRU ROOF	VTR
	OPEN DRAIN	OD
	FLOAT TYPE BACKWATER VALVE	BWV
	SIDEWALL SPRINKLER	SPKR
	PENDANT SPRINKLER	SPKR
	UPRIGHT SPRINKLER	SPKR
	DOWNSPOUT NOZZLE	
	PIPING FROM ABOVE	FA
	PIPING FROM BELOW	FB
	PIPE UP	UP
	PIPE DOWN	DN
	EXTEND AND CONNECT TO EXISTING PIPE OF EQUAL OR LARGER SIZE	
LOCATE IN FIELD AND VERIFY INVERTS PRIOR TO EXCAVATIONS FOR NEW PIPING SYSTEM		

PLUMBING FIXTURE CONNECTION SCHEDULE						
ITEM	DESCRIPTION	WASTE	VENT	H.W.	C.W.	REMARKS
WC	WATER CLOSET, BARRIER FREE	4"	2"	----	1/2"	FLOOR MOUNTED FLUSH TANK
LV	LAVATORY, BARRIER FREE	1-1/2"	1-1/2"	1/2"	1/2"	WALL HUNG
EW	ELECTRIC WATER COOLER	1-1/2"	1-1/2"	----	1/2"	WALL HUNG

* FIXTURE CONNECTION HEIGHTS SHALL CONFORM WITH CURRENT ASHRAE AND ADA STANDARDS.
SEE ARCHITECTS DRAWINGS FOR PLUMBING FIXTURE SPECIFICATIONS.

PLUMBING FLOOR DRAIN CONNECTION SCHEDULE				
ITEM	DESCRIPTION	VENT	WASTE	REMARKS
FLD	FLOOR DRAIN	2"	3"	ZURN # Z415
FLS	FLOOR SINK	2"	3"	ZURN # Z1900-KC



1 FLOOR PLAN PLUMBING

3/16" = 1'-0"

- GENERAL PLUMBING NOTES
1. PLUMBING CONTRACTOR SHALL FURNISH, ROUGH-IN AND MAKE FINAL CONNECTIONS TO ALL KITCHEN EQUIPMENT.
 2. ALL CUTTING AND PATCHING OF WALLS AND FLOORS FOR PLUMBING PIPING SHALL BE DONE BY THE PLUMBING CONTRACTOR.
 3. PLUMBING CONTRACTOR SHALL PROVIDE ALL NECESSARY VALVES, UNIONS, VACUUM BREAKERS, ETC., NOT FURNISH AS A PART EQUIPMENT TO ENSURE A COMPLETE PLUMBING SYSTEM IN COMPLIANCE WITH ALL APPLICABLE CODES.
 4. SET THE TOP OF ALL AREA FLOOR DRAINS FLUSH WITH FINISH FLOOR SURFACE.
 5. PLUMBING CONTRACTOR SHALL VERIFY ALL EXISTING PIPING CONNECTIONS, SIZES, LOCATIONS AND ELEVATIONS BEFORE PROCEEDING WITH NEW WORK.
 6. PLUMBING CONTRACTOR SHALL ASSEMBLE AND INSTALL ALL EQUIPMENT TRIM, INCLUDING FAUCETS, SINK WASTES AND TAIL PIECES, SUPPLIED LOOSE.
 7. ALL PIPING SHALL RUN CONCEALED ABOVE CEILING OR IN WALLSPACE UNLESS OTHERWISE INDICATED.
 8. ALL SANITARY PIPING SHALL BE RUN AT 1/4" PER FT. SLOPE UNLESS OTHERWISE NOTED.
 9. PROVIDE TRAP PRIMER VALVES FOR ALL DRAINS WHICH REQUIRE A SOURCE OF WATER SUPPLY TO MAINTAIN TRAP SEAL.
 10. INSULATE ALL EQUIPMENT SUCH AS SODA FOUNTAIN CONDUITS IN COMPLIANCE WITH LOCAL CODES AND LANDLORD REQUIREMENTS

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Project No: 14017

NOTES

PROFESSIONAL SEAL

SUBMITTALS

#	Description	Date
1	ISSUE FOR PERMIT	02/26/2014

SCRATCH DC
2610 EVARTS ST., NE
WASHINGTON, DC 20018

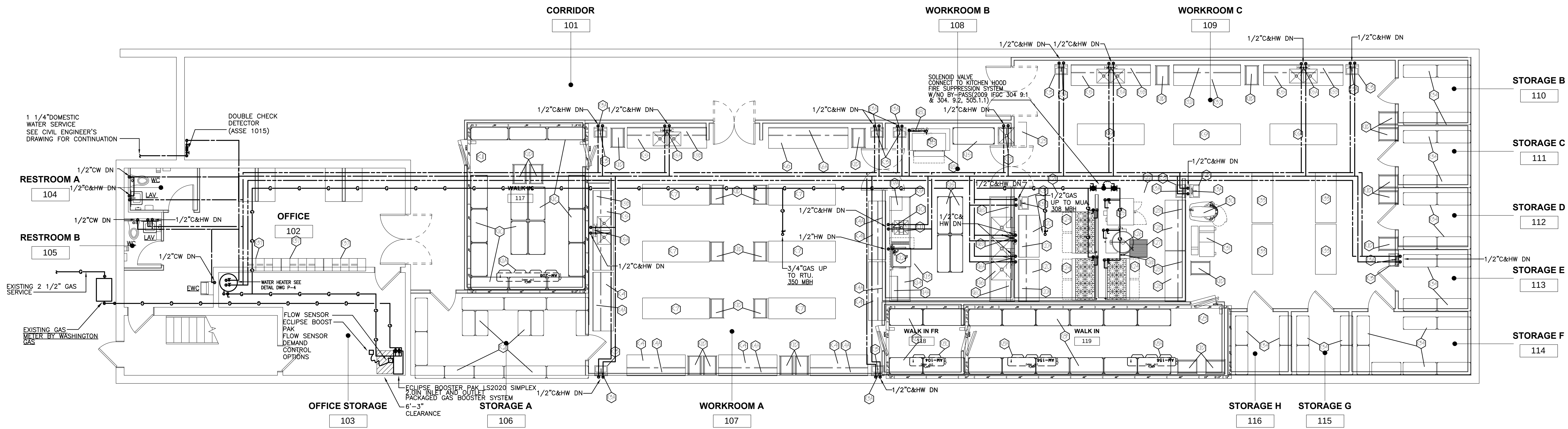


FLOOR PLAN SANITARY
PLUMBING

P-2

Project # 13-269 Date FEB 25, 2014
Managed By AS Drawn By

Scale: As indicated



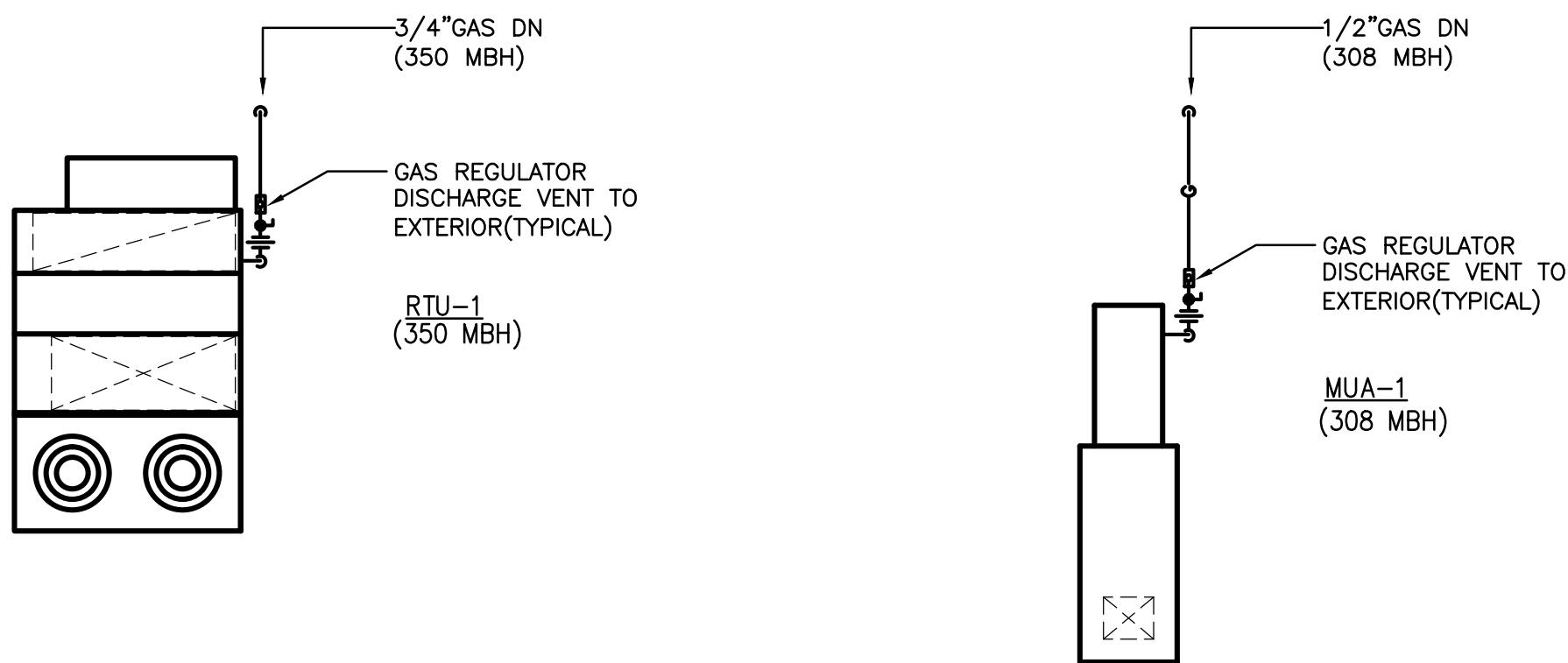
1 FLOOR PLAN PLUMBING

3/16" = 1'-0"

- GENERAL PLUMBING NOTES:
1. PLUMBING CONTRACTOR SHALL FURNISH, ROUGH-IN AND MAKE FINAL CONNECTIONS TO ALL KITCHEN EQUIPMENT.
 2. ALL CUTTING AND PATCHING OF WALLS AND FLOORS FOR PLUMBING SHALL BE DONE BY THE PLUMBING CONTRACTOR.
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 4. SET THE TOP OF ALL AREA FLOOR DRAINS FLUSH WITH FINISH FLOOR SURFACE.
 5. PLUMBING CONTRACTOR SHALL VERIFY ALL EXISTING PIPING CONNECTIONS SIZES, LOCATIONS AND ELEVATIONS BEFORE PROCEEDING WITH NEW WORK.
 6. PLUMBING CONTRACTOR SHALL ASSEMBLE AND INSTALL ALL EQUIPMENT TRIM, INCLUDING FAUCETS, SINK WASTES AND TAIL PIECES, SUPPLIED EOOSE.
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2 ROOF PLAN - PLUMBING NEW WORK

3/16" = 1'-0"



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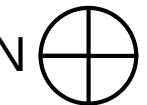
NOTES

PROFESSIONAL SEAL

SUBMITTALS

#	Description	Date
1	ISSUE FOR PERMIT	02/26/2014

SCRATCH DC
2610 EVARTS ST., NE
WASHINGTON, DC 20018



FLOOR PLAN/ROOF PLAN
WATER GAS PLUMBING

P-3

Project # 13-269 Date FEB 25, 2014

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Scale: As indicated

NOTES

PROFESSIONAL SEAL

SUBMITTALS

#	Description	Date
1	ISSUE FOR PERMIT	02/26/2014

SCRATCH DC
2610 EVARTS ST. NE
WASHINGTON, DC 20018

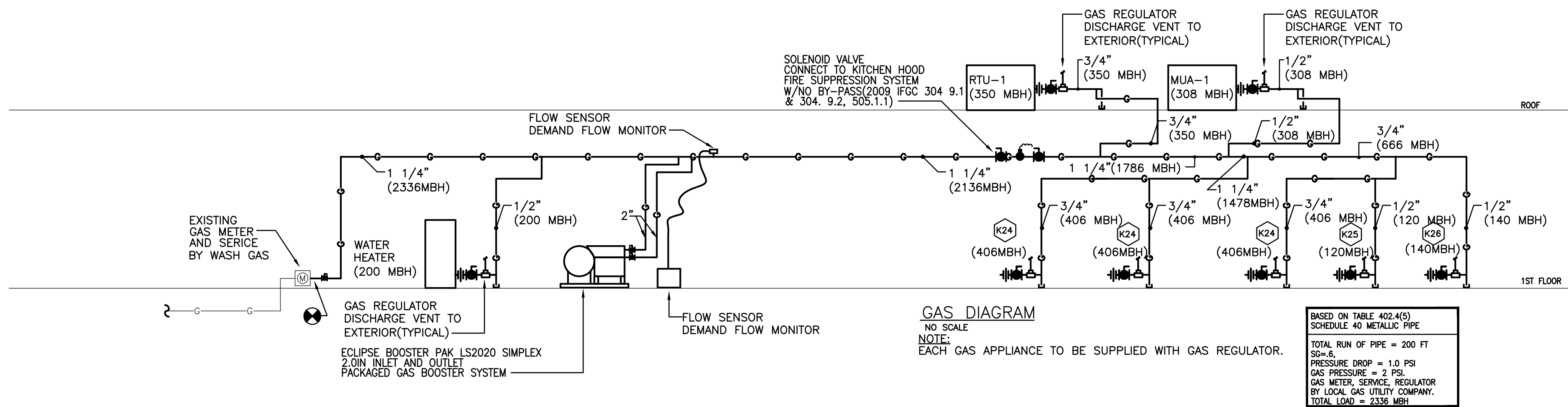


RISER DIAGRAMS
PLUMBING

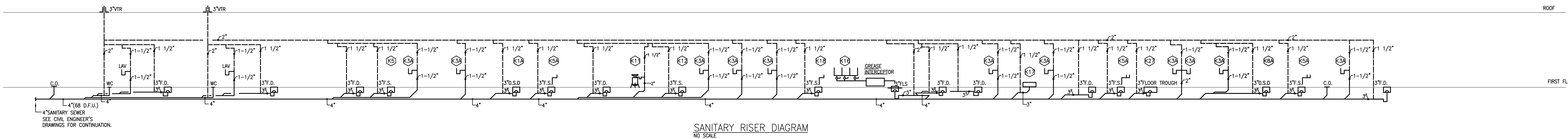
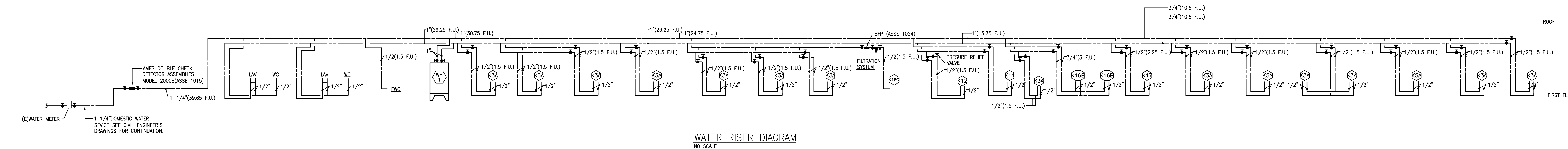
P-5

Project # 13-269 Date FEB 25, 2014
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Scale: As indicated

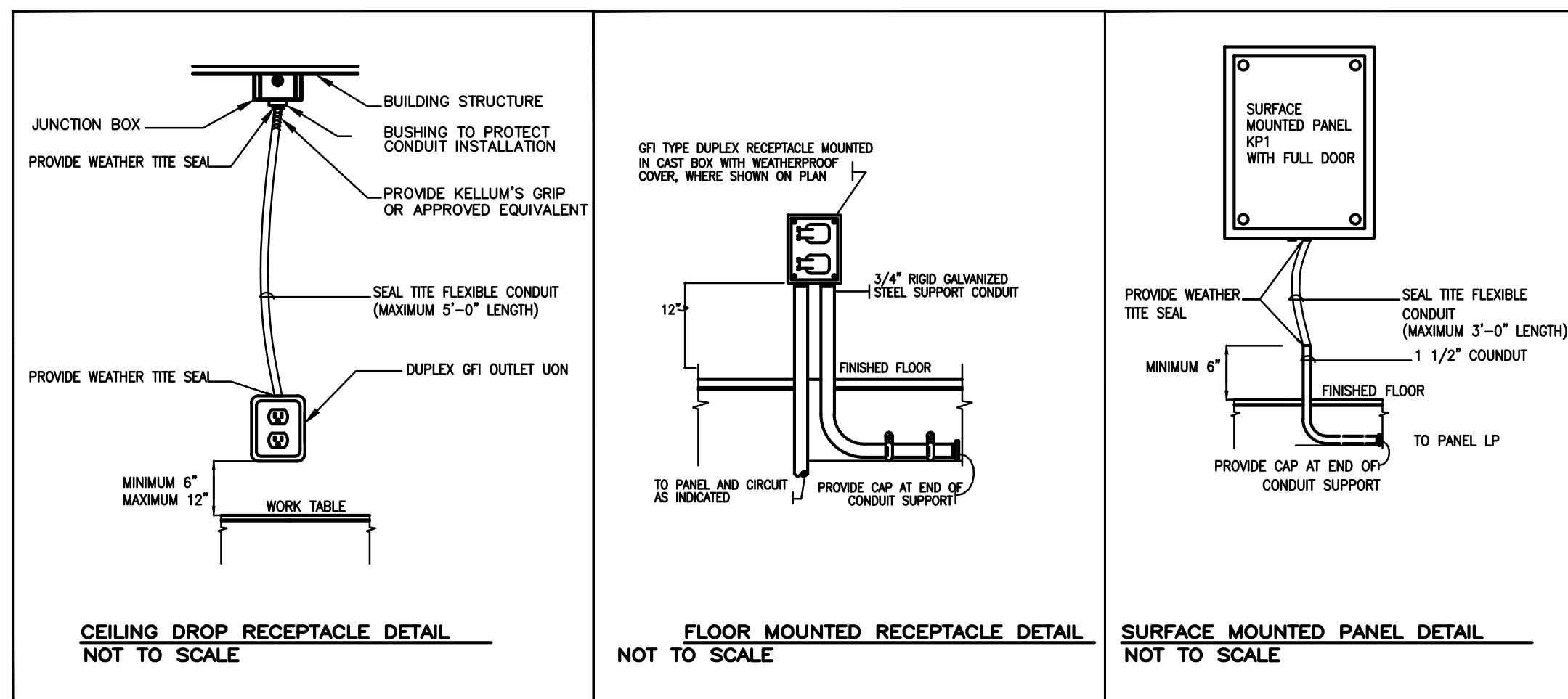


NOTE:
EACH GAS APPLIANCE TO BE SUPPLIED WITH GAS REGULATOR.



ELECTRICAL SPECIFICATIONS		LIGHTING FIXTURES		GENERAL ELECTRICAL NOTES		ELECTRICAL SYMBOLS		FIRE ALARM NOTES																																																																																																																																																																		
1. WORK TO INCLUDE ALL DEMOLITION, FURNISHING AND INSTALLING ALL ELECTRICAL SYSTEMS AND EQUIPMENT AS SHOWN ON THE PLANS AND AS SPECIFIED HEREIN. 2. THE CONTRACTOR SHALL EXAMINE THE DRAWINGS, AND THE JOB SITE AND FULLY INFORM HIMSELF OF ALL EXISTING CONDITIONS AND WORK REQUIRED BY THE DRAWINGS BEFORE SUBMITTING HIS BID. WAIVER OF RESPONSIBILITY OR REQUEST FOR ADDITIONAL PAYMENT BASED ON LACK OF KNOWLEDGE OF CONDITIONS AT THE SITE WILL NOT BE ACCEPTED OR CONSIDERED. 3. THE ENTIRE ELECTRICAL INSTALLATION SHALL CONFORM TO THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE, LOCAL JURISDICTION REQUIREMENTS, AND LOCAL CODE REQUIREMENTS. 4. ELECTRICAL CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS REQUIRED FOR ELECTRICAL WORK. 5. ALL ELECTRICAL EQUIPMENT SHALL BEAR THE UNDERWRITER'S LABORATORIES LABEL. 6. PROVIDE SHOP DRAWINGS FOR THE FOLLOWING ITEMS: A. LIGHTING FIXTURES, SWITCHES, RECEPTABLES, PANELBOARDS, AND DISCONNECT SWITCHES. 7. ALL EQUIPMENT SUCH AS PANELBOARDS, AND DISCONNECTS SWITCHES TO BE AS MANUFACTURED BY GENERAL ELECTRIC, SQUARE-D, CUTLER-HAMMER OR SIEMENS. 8. PROVIDE TEMPORARY SERVICE AS NECESSARY FOR LIGHTING AND POWER EQUIPMENT (DRILLS, SAWS, ETC.). VERIFY TEMPORARY REQUIREMENTS WITH GENERAL CONTRACTOR. TEMPORARY LIGHTING AND POWER SHALL MEET OSHA REQUIREMENTS AND LOCAL CODES. 9. ADVANCE NOTICE TO BE GIVEN TO THE OWNER BEFORE COMMENCEMENT OF WORK, WHETHER OR NOT AN OUTAGE IS REQUIRED. 10. ALL CIRCUITRY, EQUIPMENT, DEVICES, ETC., TO BE NEW UNLESS SPECIFICALLY NOTED ON THE PLANS 11. THE FOLLOWING TERMINOLOGY AND MEANINGS WILL BE USED IN THESE SPECIFICATIONS: A. PANELBOARDS "EQUIPPED SPACE" OR "SPACE", INCLUDE ALL NECESSARY BUS, DEVICE SUPPORTS AND CONNECTIONS FOR INSERTION OF A FUTURE DEVICE. B. "PROVIDE": FURNISH AND INSTALL. 12. ALL WORK TO BE PERFORMED DURING NORMAL WORKING HOURS, MONDAY THROUGH FRIDAY (7 AM TO 5 PM). IF WORK CANNOT BE PERFORMED DURING NORMAL WORKING HOURS THE OWNER TO BE NOTIFIED PRIOR TO THE SIGNING OF THE CONTRACT. 13. FINAL TESTING: AT THE TIME OF FINAL INSPECTION AND TEST, ALL CONNECTIONS AT PANELBOARDS, DEVICES AND EQUIPMENT, AND ALL SPLICES MUST BE COMPLETED. EACH BRANCH CIRCUIT AND ITS RESPECTIVE CONNECTED EQUIPMENT MUST TEST FREE OF SHORT CIRCUITS. UPON COMPLETION OF THE WORK, CLEAN AND POLISH ALL EXPOSED SURFACES IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. SWITCHES, RECEPTABLES & OUTLETS 1. PRIOR TO INSTALLATION OF ANY TELEPHONE, TV AND RECEPTACLE OUTLETS, THIS CONTRACTOR SHALL VERIFY ITS FINAL LOCATION WITH THE ARCHITECT. THE ARCHITECT MAY, AT HIS OPTION, RELOCATE ANY DEVICE WITHIN 5 FEET FROM THE LOCATION SHOWN ON THE DRAWINGS AT NO CHARGE TO THE OWNER. 2. WHERE TWO OR MORE DEVICES OF THE SAME VOLTAGE ARE SHOWN TOGETHER ON THE PLANS, A GANGED PLATE SHALL BE USED. DEVICES OF DIFFERENT VOLTAGES SHALL BE SEPARATED HORIZONTALLY BY 6" AND SHALL BE HORIZONTALLY OR VERTICALLY ALIGNED. 3. ALL RECEPTABLES, TELEPHONE, AND DATA OUTLETS SHOWN ON A WALL BACK TO BACK SHALL BE OFFSET A MINIMUM OF 6" HORIZONTALLY. 4. WALL PLATES SHALL BE AS SELECTED BY THE ARCHITECT. 5. COORDINATE LIGHT SWITCHES SHOWN ON DRAWINGS WITH DOOR SWINGS. LOCATE LIGHT SWITCH ON LOCK SIDE OF DOOR. PANELBOARDS 1. BEFORE ORDERING PANELBOARDS, COORDINATE ALL MOTOR CIRCUIT BREAKER TRIPS WITH MECHANICAL EQUIPMENT MANUFACTURER'S REQUIREMENTS. COORDINATE CONDUCTOR SIZE WITH ACTUAL MOTORS AND OTHER MECHANICAL AND ARCHITECTURAL EQUIPMENT FURNISHED BEFORE INSTALLING CIRCUITRY. 2. ALL PANELBOARDS SHALL HAVE COMMON KEYPED LOCKS. PROVIDE A MINIMUM OF TWO KEYS PER PANEL. PANELBOARDS SHALL BE COMPLETE WITH COVER AND TRIM AND SHALL CONTAIN A GROUND BUS. 3. SURFACE MOUNTED PANELBOARD CABINETS SHALL BE INSTALLED ON AN APPROVED STEEL FRAMEWORK TO DISTRIBUTE THE WEIGHT EVENLY TO THE WALL OR FLOOR AND TO PROVIDE A 1-INCH AIR SPACE BETWEEN WALL AND CABINET. 4. RECESSED PANELBOARDS, INSTALL ONE 3/4" CONDUIT FROM TOP OF PANEL 6" INTO CEILING SPACE FOR EVERY 3 SPARE CIRCUIT BREAKERS OR SPACES. PANELBOARDS SHALL BE COMPLETELY RECESSED AND BE PROVIDED WITH A FLUSH MANUFACTURER COVER UTILITY COORDINATION 1. COORDINATE ELECTRICAL SERVICE AND INSTALLATION OF NEW SERVICES WITH THE UTILITY COMPANY. 2. COORDINATE INSTALLATION OF NEW TELEPHONE SERVICE WITH THE LOCAL TELEPHONE COMPANY.		1. COORDINATE LOCATIONS OF LIGHTING FIXTURES WITH SPRINKLERS, MECHANICAL EQUIPMENT AND ARCHITECTURAL CEILING PLAN. LAYOUT ON PLANS IS APPROXIMATE, ADJUST AND COORDINATE LIGHTING FIXTURES IN FIELD PER ARCHITECTS CEILING PLAN. 2. LIGHTING FIXTURE TYPES SHALL BE COMPATIBLE WITH INSTALLATION. COORDINATE ALL FIXTURE TYPES WITH ARCHITECT PRIOR TO ORDERING FIXTURES. PROVIDE ALL MOUNTING ATTACHMENTS FOR A COMPLETE INSTALLATION. 3. ALL NEW LIGHTING FIXTURES SHALL BE INSTALLED COMPLETE WITH LAMPS. SEE PLANS FOR SPECIFIC REQUIREMENTS. 4. RECESSED LIGHTING LISTED FOR INSTALLATION IN RATED FLOOR-CEILING ASSEMBLIES 5. LIGHT FIXTURES TO BE UL RATED. DISCONNECT SWITCHES 1. LOCATE DISCONNECT SWITCH FOR MECHANICAL AND PLUMBING EQUIPMENT TO PERMIT SERVICING OF EQUIPMENT. PROVIDE FUSES IF REQUIRED BY MANUFACTURER OF EQUIPMENT FOR UL APPROVAL. CHECK MOTORS FOR PROPER ROTATION. CONNECT CONDUCTORS AS REQUIRED BY MANUFACTURER. BRANCH CIRCUITRY 1. ALUMINUM CONDUIT IS NOT PERMITTED. 2. ALL CIRCUITRY RUNS ARE DIAGRAMMATIC. THE CONTRACTOR TO DETERMINE IN FIELD THE MOST SUITABLE ROUTES. 3. MINIMUM SIZE CONDUIT TO BE 3/4". 4. NONMETALLIC CONDUIT IS NOT TO BE USED FOR BRANCH CIRCUIT WORK ABOVE GRADE. 5. CIRCUITRY TO BE INSTALLED CONCEALED IN FINISHED AREAS. 6. CIRCUITRY TO BE INSTALLED TIGHT TO THE UNDERSIDE OF THE FLOOR SLAB ABOVE IN A NEAT WORKMANLIKE MANNER. ALL RUNS TO BE PARALLEL, OR PERPENDICULAR TO BUILDING WALLS. 7. PROVIDE ALL EMPTY RACEWAYS WITH A DRAG WIRE. EMPTY RACEWAYS 2" OR LARGER IN SIZE TO HAVE A MAXIMUM OF 3-90 DEGREE BENDS. 8. MAKE FINAL CONNECTION TO ALL MOTORS AND VIBRATING EQUIPMENT WITH FLEXIBLE CONDUIT, MAXIMUM 6'-0" LENGTH 9. ALL CONDUIT/CABLE PENETRATIONS OF EXTERIOR WALLS, FIRE RATED WALLS, AND FIRE RATED FLOORS, TO BE CAULKED AND SEALED WATERTIGHT. SEALS FOR FIRE RATED PENETRATIONS TO BE SEALED WITH UL LISTED PUTTY TYPE SEALING COMPOUND. 10. PROVIDE HACR TYPE CIRCUIT BREAKERS FOR ALL CIRCUIT BREAKERS SERVING HVAC EQUIPMENT INDOOR BRANCH CIRCUITRY 1. ALL INDOOR WIRING TO BE INSTALLED IN GALVANIZED EMT FLEXIBLE CABLE OR HEAVY WALL GALVANIZED RIGID STEEL, UNLESS NOTED OTHERWISE. 2. ARMORED CABLE (BX) IS ONLY PERMITTED TO SERVE LIGHTING LOAD. "BX" IS PERMITTED IN CONCEALED AREAS SUCH AS A CEILING SPACE ONLY. "BX" IS NOT PERMITTED TO BE INSTALLED EXPOSED. ALL HOMERUNS TO BE INSTALLED IN EMT. 3. METAL CLAD CABLE (MC CABLE) IS ONLY PERMITTED TO SERVE RECEPTABLES AND OTHER EQUIPMENT LOAD PER NEC. METAL CLAD CABLE (MC) IS PERMITTED IN CONCEALED AREAS SUCH AS CEILING SPACE AND FINISHED WALL AREAS ONLY. INSTALLATION OF CABLE TYPE TO BE APPROVED BY THE AUTHORITY HAVING JURISDICTION. ALL HOMERUN TO BE INSTALLED IN EMT. OUTDOOR BRANCH CIRCUITRY 1. ALL EXTERIOR ABOVE GRADE CONDUITS SHALL BE HEAVYWALL GALVANIZED RIGID STEEL. 2. ALL WIRING INSULATION TO BE THW OR THHN-THWN. 3. ALL WIRING SHALL BE COLOR CODED THROUGHOUT. 4. ALL RECEPTABLES, LIGHTING FIXTURES, MOTORS, ETC., SHALL BE GROUNDING. 5. INSTALL MULTIPLE HOMERUNS TO ALTERNATELY NUMBERED PANELBOARD CIRCUITS (i.e. 1, 3, 5) SERVING LIGHTING, GENERAL RECEPTABLES, AND MOTORS. 6. ALL 120 VOLT, CIRCUIT HOMERUNS OVER 100 LINEAR FEET TO BE A MINIMUM OF #10 CONDUCTORS UNLESS OTHERWISE INDICATED ON THE PLANS. DEMOLITION NOTES: 1. REMOVE ALL EXISTING ELECTRICAL DEVICES, WIRING, RACEWAYS, DATA CABLE SUPPORT HANGERS, PANLES AND JUNCTION BOXES, NOT NOTED OR SHOWN AS RE-USED, BACK TO SOURCE		G1. LATEST ADOPTED ISSUE OF THE NATIONAL FIRE PROTECTION ASSOCIATION CODE. G.2 LATEST ADOPTED NATIONAL BUILDING CODE. G.3 REGULATIONS OF THE LOCAL AUTHORITIES HAVING JURISDICTION. G.4 ELECTRICAL MATERIALS AND EQUIPMENT INSTALLED IN LOCATION EXPOSED TO MOISTURE OR THE ELEMENTS SHALL BE WEATHERPROOF- WHETHER OR NOT SHOWN AND NOTED G5. ALL 120 VOLT BRANCH CIRCUITS EXTENDING 100 OR MORE FEET (200 FEET FOR 208V OR ABOVE) IN LENGTH FROM THAT CIRCUIT'S PANEL C/B TO THE LAST DEVICE OR CONNECTION ON THE RUN, SHALL BE PROVIDED WITH CONDUCTORS OF A.W.G. AMPACITY RATING MINIMUM ONE SIZE LARGER THAN THE AMPACITY OF THAT CIRCUIT'S C/B SIZE. i.e.: 20A. C/B, 30A. WIRE SIZE, ETC., WHETHER OR NOT SHOWN AND NOTED G6. PROVIDE SEPARATE INSULATED GREEN GROUND CONDUCTOR WITH THE BRANCH CIRCUIT OR FEEDER WIRING FOR ALL SINGLE OR THREE PHASE CIRCUITS, WHETHER OR NOT SHOWN AND NOTED G7. PROVIDE ALL CONDUITS FOR COMMUNICATIONS WITH CAT 5 DATA/TELEPHONE CABLE, COORDINATE WITH OWNER FOR FINAL CONNECTIONS G8. PROVIDE ALL CONDUITS FOR TV WITH COAXIAL CABLE. COORDINATE WITH LOCAL SUPPLIER FOR TYPE OF CABLE. COORDINATE WITH OWNER FOR FINAL CONNECTIONS G9. ALL DISCONNECT SWITCHES SHALL BE HEAVY DUTY, 240 VOLT RATED, NEMA 1 IN DRY LOCATIONS, NEMA 3R WHERE INSTALLED IN ANY LOCATION EXPOSED TO THE ELEMENTS. WHERE NUMBERS ARE SHOWN ADJACENT TO SYMBOL. i.e.: 60/50 FIRST NO = SWITCH SIZE SECOND NO = FUSE (GENERALLY K5 CLASS). NF = NON FUSE TYPE DISCONNECT SWITCH, UNLESS OTHERWISE REQUIRED BY MECHANICAL EQUIPMENT WITH "FUSE ONLY PROTECTION". FOR THIS SITUATION, CONTRACTOR SHALL PROVIDE FUSED DISCONNECT SWITCH WITH FUSES AS RECOMMENDED BY EQUIPMENT SUPPLIER. G10. THIS CONTRACTOR SHALL EXTEND WIRE TO ALL EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS AND MAKE FINAL AND COMPLETE CONNECTIONS TO SAME. BEFORE ROUGHING-IN OUTLETS, THE LOCATION AND TYPE OF OUTLET SHALL BE VERIFIED FROM SHOP DRAWINGS OF THE EQUIPMENT. ALL OUTLETS AND CONNECTIONS TO EQUIPMENT SHALL BE MADE FROM THE WALLS EXCEPT WHERE SPECIAL FLOOR OUTLETS ARE INDICATED. PROVIDE A FLUSH JUNCTION BOX IN THE WALL BENEATH THE OPERATING LEVEL OF THE EQUIPMENT AND CONNECT TO THE EQUIPMENT WITH FLEXIBLE CONDUIT. DO NOT RUN ANY CONDUIT EXPOSED, EQUIPMENT HAVING BUILT-IN SWITCHES SHALL BE COMPLETELY WIRED AS REQUIRED. PLUGS AND CORDS ON THE EQUIPMENT TO BE REPLACED, SHORTENED OR LENGTHENED AS REQUIRED BY THIS CONTRACTOR TO SUIT THE OUTLETS FURNISHED. PROVIDE A SEPARATE GROUND WIRE AND CONNECTION FOR ALL EQUIPMENT. THE CONTRACTOR TO COORDINATE TO INSURE THAT EACH PIECE OF EQUIPMENT IS SUITABLE FOR THE VOLTAGE CHARACTERISTIC AT THE POINT OF CONNECTION. G11. ELECTRICAL CONTRACTOR SHALL INSTALL ALL MOTOR STARTERS/ CONTROLLERS (FBO) SHOWN OR NOT SHOWN ON THE PLANS. PROVIDE DISCONNECT SWITCHES AS INDICATED ON THE PLANS OR AS REQUIRED. DO NOT INSTALL MOTOR STARTERS/CONTROLLERS SHOWN OR NOT SHOWN IN THE CEILING SPACES, UNLESS OTHERWISE APPROVED. G12. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL TELE/DATA OUTLET BOXES AND CONDUIT IN LOCATIONS AS SHOWN ON THE DRAWINGS, WHETHER SHOWN OR NOT SHOWN ON ELECTRICAL DRAWINGS. PROVIDE SLEEVES AS REQUIRED AND FIRE SEAL SLEEVES AFTER ALL CABLES ARE INSTALLED. G13. ALL ABOVE COUNTER RECEPTABLES LOCATED WITHIN 6'-6" (MEASURED HORIZONTALLY) OF A SINK, SHALL BE GFCI TYPE (WHETHER OR NOT SHOWN AND NOTED) G14. PROVIDE TOGGLE SWITCH FOR FAN CONTROL AND ALL ASSOCIATED INTERLOCK/INTERCONNECTIONS. VERIFY EXACT LOCATION OF CONNECTION AND SWITCH LOCATION IN FIELD. G15. CONTRACTOR TO VERIFY THE SPECIAL SINGLE RECEPTABLES NEMA CONFIGURATION REQUIRED BY EQUIPMENT SUPPLIER PRIOR TO INSTALLATION. G16. PROVIDE JUNCTION BOX FOR TELEPHONE EQUIPMENT. LOCATION TO BE DETERMINED IN FIELD OR AS SHOWN ON DRAWINGS. G17. CONTRACTOR TO PROVIDE LOCKABLE ENCLOSURES FOR EXTERIOR MOUNTED RECEPTABLES G18. CONTRACTOR TO LABEL ARC FLASH HAZARD WARNING FOR PERSONNEL FOR 1200 AMP SWITCHGEAR G19. PROVIDE TAMPER RESISTANT RECEPTABLES IN RESIDENTIAL PER NEC ARTICLE 406.11 G20. ALL LIGHTING AND CONTROL SHALL BE IN COMPLIANCE WITH SECTION 505 OF IECC 2009 G21. ALL RECEPTACLE SPACING SHALL BE IN COMPLIANCE WITH NEC ARTICLE 210.52 G22. SEAL PENETRATIONS THRU FLOORS AND WALLS TO MAINTAIN THE FIRE AND ACOUSTIC INTEGRITY OF WALLS AND FLOORS. PENETRATIONS SHALL BE FIRESTOPPED WITH UL FIRE RETARDANT MATERIAL. G23. ALL DISCONNECTS SHALL BE LABELED PER NEC 230.70(B) AND 695.4(B). G24. CONTRACTOR SHALL PROVIDE TYPEWRITTEN PANEL SCHEDULE. G25. WHERE PORTIONS OF A CABLE RACEWAY OR SLEEVE ARE KNOWN TO BE SUBJECTED TO DIFFERENT TEMPERATURES AND WHERE CONDENSATION IS KNOWN TO BE A PROBLEM, AS IN COLD STORAGE AREAS OF BUILDINGS OR WHERE PASSING FROM THE INTERIOR TO THE EXTERIOR OF A BUILDING, THE RACEWAY OR SLEEVE SHALL BE FILLED WITH AN APPROVED MATERIAL TO PREVENT THE CIRCULATION OF WARM AIR TO A COLDER SECTION OF THE RACEWAY OR SLEEVE. AN EXPLOSIONPROOF SEAL SHALL NOT BE REQUIRED FOR THIS PURPOSE. G26. ALL DISCONNECTS SHALL BE LABELED IN ACCORDANCE WITH NEC 110.22. G27. CONTRACTOR SHALL BALANCE PHASE LOADS WITHIN 10% OF EACH OTHER G28. PROVIDE TAMPER RESISTANT RECEPTABLES IN RESIDENTIAL PER NEC ARTICLE 406.11 G29. ALL LIGHTING AND CONTROL SHALL BE IN COMPLIANCE WITH SECTION 505 OF IECC 2009 G30. ALL RECEPTACLE SPACING SHALL BE IN COMPLIANCE WITH NEC ARTICLE 210.52 G31. ALL BATTERY BACKED UNIT EQUIPMENT (EXIT LIGHTS, EMERGENCY BATTERY PACKS) SHALL BE INSTALLED AND CONNECTED IN ACCORDANCE WITH N.E.C. ARTICLE 700-12(4). G32. DARKENED PORTION OF EXIT LIGHT DENOTES LIGHTED FACE SIDE(S). FIXTURE SHALL BE BUILDING STANDARD AND HAVE DIRECTIONAL ARROWS ALL AS SHOWN ON DRAWINGS. G33. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS. THERE ARE NO EXISTING MEP "AS BUILT" DRAWING OF THIS BUILDING. EXISTING CONDITIONS HAVE BEEN DONE BY SURVEY, HOWEVER ELECTRICAL PLANS ARE DIAGRAMMATIC IN NATURE. CONTRACTOR SHALL BE RESPONSIBLE TO CHECK EXISTING PANELS, SERVICE FEEDERS AND CIRCUITRY CONDITIONS TO ASSURE THAT SERVICE EQUIPMENT IS IN PROPER WORKING ORDER. G.34 WIRING METHODS SHALL COMPLY WITH NEC 2008 SECTION 518.4 G.35 ALL RECEPTABLES IN THE KITCHEN AREA SHALL BE GROUND FAULT CIRCUIT INTERRUPTER.		<table><tr><th>SYMBOLS</th><th>DESCRIPTION</th><th>MOUNTED</th></tr><tr><td rowspan="5">SWITCHES</td><td>S SINGLE POLE TOGGLE SWITCH</td><td>4'-0" AFF. UON.</td></tr><tr><td>S₃ THREE WAY TOGGLE SWITCH</td><td>4'-0: AFF. UON.</td></tr><tr><td>S₉ DIMMER SWITCH, LUTRON NOVA 1 SERIES OR APPROVED EQUIVALENT, COMPATIBLE WITH LIGHTING FIXTURE</td><td>4'-0: AFF. UON.</td></tr><tr><td>S_{9w} MOTOR RATED SWITCH WITH THERMAL OVERLOAD PROTECTION.</td><td>AS REQUIRED</td></tr><tr><td>S_{9w} OCCUPANCY SENSOR LIGHT SWITCH, 277V, WATSTOPPER DUAL TECHNOLOGY SENSOR DW-100 OR APPROVED EQUIVALENT</td><td>4'-0: AFF. UON.</td></tr><tr><td rowspan="10">POWER</td><td>□ SINGLE POLE 120V, 20A, RECESSED DOOR SWITCH. PASS & SEYMOUR CAT. NO. 1200 OR EQUIV.</td><td>4'-0: AFF. UON.</td></tr><tr><td>□ FAN SWITCH, CONNECT TO TOILET EXHAUST FAN</td><td>4'-0: AFF. 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DIVISION 16 ELECTRICAL TRADE ARE RESPONSIBLE FOR:	
ALL NOTES MAY NOT APPLY TO EVERY PROJECT. REVIEW THE CONTRACT DOCUMENTS AND VERIFY WITH THE PROJECT ARCHITECT AND ENGINEER.	
* ALL WIRING, FITTINGS, AND LABOR, UP TO AND INCLUDING FINAL CONNECTIONS FROM BUILDING UTILITIES TO FOOD SERVICE EQUIPMENT CONNECTION POINTS.	
* ALL CORDS & PLUGS THAT ARE NOT FURNISHED WITH THE FOOD SERVICE EQUIPMENT.	
* INTERWIRING EXHAUST VENTILATOR, FIRE SYSTEM, WASTE DISPOSAL, REMOTE REFRIGERATION, AND DEQUERED PUMPING SYSTEMS UNLESS OTHERWISE NOTED.	
* PROVISION OF AREA SUB-PANELS IN LIEU OF DISCONNECT SWITCHES WHEREVER POSSIBLE AS REQUIRED.	
* PROVISION OF ALL EXPOSED HARDWARE AND FIXTURES IN CHROME OR STAINLESS STEEL AND WATERPROOF AS SPECIFIED BY CONTRACT DOCUMENTS.	
* COORDINATION OF PANELBOARDS WITH EQUIPMENT LOCATIONS AND REQUIREMENTS AS REQUIRED.	
* SIZING OF PANELBOARDS WITH SPARE CAPACITY AS REQUIRED BY CODES.	
* CONDUIT, WIRING AND SHUNT-TRIP BREAKERS FOR FOOD SERVICE EQUIPMENT AND INTER-WIRING BETWEEN EQUIPMENT AND SHUNT-TRIP BREAKERS.	
* EMPTY CONDUITS FOR CONTROL/COMPUTER/DATA WIRING/CABLES AS REQUIRED.	
* ANY FUTURE EQUIPMENT CONNECTIONS TO BE COMPLETELY ROUGHED IN AND WIRED BUT WITH COVER PLATES ON ROUGH IN POINTS.	
* IF ELECTRIC GAS SOLENOID VALVE IS REQUIRED, CONDUIT AND WIRING BETWEEN MOMENTARY POWER INTERRUPTION DEVICE, RESET RELAY AND GAS SOLENOID VALVE.	
* CONDUIT AND INTER-WIRING BETWEEN FIRE SUPPRESSION SYSTEM MICROSWITCH(S) AND BUILDING ALARM SYSTEM.	
* CONDUIT AND WIRING BETWEEN EXHAUST HOOD CONTROLS (FAN SWITCH OR CONTROL PANEL) AND EXHAUST/SUPPLY FAN MAGNETIC STARTERS UNLESS STATED OTHERWISE.	
* CONDUIT AND WIRING BETWEEN EXHAUST HOOD JUNCTION BOX AND WALL SWITCH FOR LIGHTS UNLESS STATED OTHERWISE.	
* CONDUIT AND WIRING BETWEEN DISH/MACHINE CONTROL PANEL AND EXHAUST FAN MAGNETIC STARTER IN USE WITH CONDENSATE REMOVAL.	
* CONDUIT AND WIRING BETWEEN GARBAGE DISPOSER CONTROL PANEL & SOLENOID VALVE.	
*SEE SPECIAL CONDITIONS PLAN FOR EACH AREA FOR LOCATIONS AND SIZES OF CONDUITS FOR BEVERAGE SYSTEMS.	





- | LIGHTING FIXTURE SCHEDULE | | | NOTE: COORDINATE LOCATIONS AND TYPES OF ALL LIGHTING FIXTURES WITH ARCHT. | | | | | |
|--|--|-------------------|---|------------|-------|------------------|---|--|
| SYMBOL/DESC. | DESCRIPTION | MANUFACTURER | CATALOG NUMBER | LAMPS | VOLTS | MOUNTING | REMARKS | |
|  L1 | 2X4 TROFFER LIGHT
LIGHTING FIXTURE | LITHONIA LIGHTING | FHE 432L | (4) 32W T8 | 120 | STEM | LENS, GASKETING | |
|  L2 | 2X2 TROFFER LIGHT
LIGHTING FIXTURE | LITHONIA LIGHTING | 20T8ZU316 A12 | (2)31W T8 | 120 | RECESSED | LENS, GASKETING | |
|  L3 | RECESSED DOWNLIGHT
LIGHTING FIXTURE | LITHONIA LIGHTING | 6BP LED 6" INCANDESCENT
HOUSING | LED | 120 | RECESSED | | |
|  | EMERGENCY LIGHT | LITHONIA LIGHTING | QUANTUM ELM2 SERIES | INTEGRAL | 120 | SURFACE | WITH INTEGRAL BATTERY AND CHARGER | |
|  | WEATHERPROOF LIGHTING FIXTURE | MCPHILBEN | SERIES DE2 | 13W PL | 120 | WALL | WITH INTEGRAL BATTERY AND CHARGER
0 DEGREE INSTALLATION | |
|  | EXIT LIGHTING FIXTURE | LITHONIA LIGHTING | QUANTUM LOC SERIES | INTEGRAL | 120 | WALL/
CEILING | WITH INTEGRAL BATTERY AND CHARGER
BLACK BACKGROUND PHOTOLUMINESCENCE
TEXT | |
| | | | | | | | | |
- LIGHTING FIXTURE SCHEDULE NOTES:**
1. ALL LIGHTING FIXTURES TO BE APPROVED BY THE ARCH./ OWNER PRIOR TO ORDERING AND INSTALLING.
 2. ARCHITECT TO SELECT COLOR OF LIGHTING FIXTURES
 3. ALL LIGHTING FIXTURES TO BE COMPATIBLE WITH DIMMING SYSTEM
 4. REFER TO ARCHITECTURAL REFLECTED CEILING AND ELEVATION PLANS FOR EXACT LOCATION, HEIGHTS AND MOUNTING.
 5. ALL LIGHTING FIXTURES INSTALLED IN FOOD SERVICE AREAS TO BE APPROVED FOR FOOD SERVICE AREA.
 6. LIGHT FIXTURES TO BE UL RATED.

Scale: As indicated

NOTES

- PLAN NOTES**
- Ⓐ ALL KITCHEN 15A AND 20A 125 VOLT RECEPTABLES AND SERVICE LINE AREAS ARE TO BE GFI PROTECTED, IN COMPLIANCE WITH N.E.C. ARTICLE 408.30(2) AND ARTICLE 408.30(2). ANY EXISTING TO REMAIN 15 AMP AND 20 AMP 125 VOLT RECEPTABLES IN KITCHEN AND SERVICE LINE AREAS SHALL ALSO BE GFCI PROTECTED IN COMPLIANCE. EXPOSED RECEPTABLES WILL BE GFI TYPE. NON EXPOSED RECEPTABLES WILL BE FED FROM GFI BREAKERS.
- Ⓑ ANSUL PULL STATION, OCTAGON JUNCTION BOX, PROVIDE 3/4" CONDUIT STRAIGHT UP TO ABOVE CEILING LINE, NO OFFSETS OR BENDS, COORDINATE LOCATION AND HEIGHT WITH SUPPLIER AND ARCHITECT. FIRE SUPPRESSION SYSTEM CONTRACTOR SHALL FURNISH & INSTALL MECHANICAL CABLE LINKS FROM FIRE SUPPRESSION SYSTEM CABINET TO REMOTE FIRE PULL STATION.
- Ⓒ DISCONNECT 240V, 30A, 3P, NEMA 3R, 4#10 & 1#10G. IN 3/4" CONDUIT, FUSED AS REQUIRED BY MANUFACTURER.
- Ⓓ RTU-1: DISCONNECT 200A, 240 VOLT, FUSED AT 150A, NEMA 3R, 4#3/0 & 1#6G. IN 2" CONDUIT, COORDINATE WITH MECHANICAL DRAWINGS FOR LOCATION.
- Ⓔ RECEPTABLES AND TELE/DATA DEVICES IN THIS AREA ARE EXISTING TO REMAIN, UNLESS OTHERWISE NOTED.
- Ⓕ CEILING MOUNTED JUNCTION BOX FOR GAS SOLENOID, COORDINATE LOCATION WITH PLUMBING DRAWINGS.
- Ⓖ CEILING MOUNTED JUNCTION BOX FOR CEILING FAN, COORDINATE LOCATION WITH SUPPLIER AND ARCHITECT.
- Ⓗ CEILING MOUNTED JUNCTION BOX FOR CARBON MONOXIDE SENSOR, COORDINATE LOCATION WITH MECHANICAL DRAWINGS.
- Ⓘ ALL FAN POWER IS REQUIRED AT THE HOOD CONTROL PANEL. SEE KITCHEN VENDOR DRAWINGS FOR DETAILS.
- Ⓛ RUN CONDUIT HORIZONTALLY IN LOW WALL PARTITIONS AND ROUTE TO NEAREST FULL HEIGHT PARTITION WHERE REQUIRED. REFER TO ARCHITECTURAL DRAWINGS.
- Ⓜ SEAL PENETRATIONS THRU FLOORS AND WALLS TO MAINTAIN THE FIRE AND ACOUSTIC INTEGRITY OF WALLS AND FLOORS. PENETRATIONS SHALL BE FIRESTOPPED WITH UL FIRE RETARDANT MATERIAL.
- Ⓝ ELECTRICAL CONTRACTOR TO FURNISH & INSTALL SHUNT TRIP BREAKERS FOR ALL COOKING EQUIPMENT FOR POWER SHUT-OFF IN CASE OF FIRE AND CONNECT TO BUILDING FIRE ALARM SYSTEM.
- Ⓞ ELECTRICIAN TO SUPPLY AND INSTALL ALL NECESSARY STARTERS, DISCONNECTS, CONTACTORS AND SHUNT TRIP BREAKERS.
- Ⓟ ELECTRICIAN TO INTERWIRE DISPOSAL WITH START/STOP STATION AND SOLENOID VALVE.
- Ⓠ ELECTRICIAN TO SUPPLY AND INSTALL HEAT TAPE ON DRAIN LINE IN WALK-IN FREEZER.
- Ⓡ ELECTRICIAN TO SUPPLY AND INSTALL DISCONNECT SWITCHES IN WALK-IN PRIOR TO CONNECTING TO COILS.
- Ⓢ ELECTRICIAN TO INTERWIRE SECOND GAS SOLENOID VALVE (SUPPLIED BY PLUMBER) W/EXHAUST FAN CIRCUIT TO SHUT SOLENOID WHEN FAN IS TURNED OFF.
- Ⓣ COORDINATE WITH MECHANICAL, PLUMBING AND FOOD SERVICE DRAWINGS AND OWNER FOR LOCATION OF EQUIPMENT.
- Ⓤ ELECTRICIAN TO PROVIDE ALL NECESSARY ROUGH-INS AND FINAL CONNECTIONS AFTER EQUIPMENT IS SET IN PLACE.
- Ⓡ ELECTRICIAN TO CONNECT ALL ELECTRICAL EQUIPMENT AND FIXTURES AND PROVIDE ALL INTERNAL WIRING REQUIRED IN THE FIXTURES AS REQUIRED BY THE EQUIPMENT SPECIFICATIONS. ALL ELECTRICAL OUTLET COVER PLATES ARE TO BE STAINLESS STEEL AND ARE TO BE PROVIDED BY THE ELECTRICIAN, AS WELL AS THE RECEPTACLE, UNLESS OTHERWISE SPECIFIED IN THE ITEM DESCRIPTION. EQUIPMENT SUPPLIER TO FURNISH A GALVANIZED JUNCTION BOX IN THE FIXTURE CUTOUT TO RECEIVE THE RECEPTACLE. UNLESS OTHERWISE NOTED, ALL DISCONNECT SWITCHES REQUIRED ARE TO BE PROVIDED BY THE ELECTRICIAN AT TIME OF INSTALLATION.
- Ⓢ ELECTRICAL CONTRACTOR TO PROVIDE ALL MATERIALS REQUIRED & INTERWIRE BETWEEN CONDENSATE HOOD & CONDENSATE EXHAUST FAN ON ROOF & INTER WIRE WITH DISH WASH MACHINE AS REQUIRED.
- Ⓢ WIRING FROM MICRO-SWITCHES ON FIRE PROTECTION SYSTEM(S) CONTROL PANEL TO SHUNT-TRIP BREAKERS FOR COOKING EQUIP. FOR FIRE-FUEL SHUT-OFF AND WIRING TO BUILDING ALARMS AND GAS SOLENOID VALVE(S) BY ELECTRICAL CONTRACTOR.
- Ⓢ ALL WORK TO BE PERFORMED IN FULL ACCORDANCE WITH ALL APPLICABLE CODES RELATING TO HOOK-UP, INSTALLATION AND WIRING OF EQUIPMENT. OMISSIONS OR ERRORS ON THE SCHEDULE DO NOT RELIEVE THE ELECTRICIAN FROM COMPLETE FINAL CONNECTION RESPONSIBILITY.

**** DENOTES ITEMS UNDER HOODS

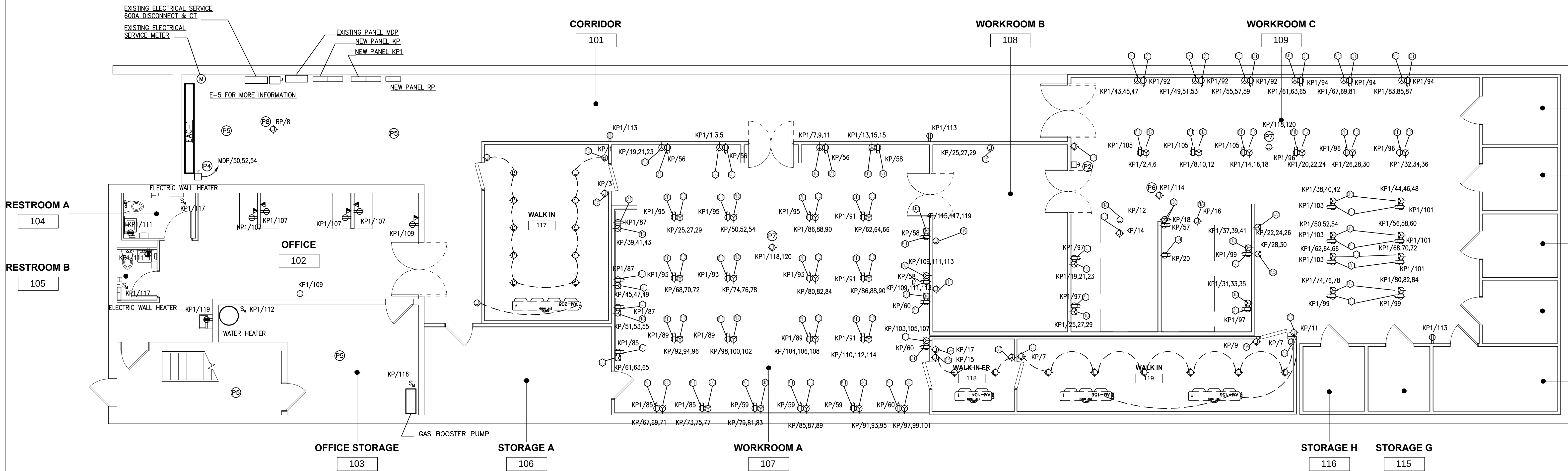
ELECTRIC ROUGH-INS

- E1 115V-1PH, 20.0 AMPS, CONVENIENCE DUPLEX RECEPTACLE, +48"AFF.
- E2 115V-1PH, 1.125 KW, J.BOX, DIRECT CONNECTION FOR WALK-IN COOLER LIGHTS (ITEM #K-1), STUB DOWN FROM ABOVE, ELECTRICIAN TO MOUNT AND INTERWIRE (10) EXTRA LIGHTS TO SWITCH ON DOOR PANEL.
- E3 115V-1PH, 5.0 AMPS, J.BOX, DIRECT CONNECTION TO PRESSURE RELIEF PORT ON WALK-IN DOOR PANELS (ITEM #K-1), STUB DOWN FROM ABOVE.
- E4 115V-1PH, 7.2 AMPS, J.BOX, DIRECT CONNECTION TO TIME CLOCK MOUNTED ON EXTERIOR OF WALK-IN COOLER (ITEM #K-1) AT CEILING LINE. STUB DOWN FROM ABOVE. ELECTRICIAN TO INTERWIRE FROM TIME CLOCK TO WALK-IN BEER COOLER COIL (ITEM #K-1A) AND INTERWIRE W/THERMOSTAT AND SOLENOID VALVE.
- E5 115V-1PH, 1.125 KW, J.BOX, DIRECT CONNECTION FOR WALK-IN COOLER LIGHTS (ITEM #K-8), STUB DOWN FROM ABOVE, ELECTRICIAN TO MOUNT AND INTERWIRE (6) EXTRA LIGHTS TO SWITCH ON DOOR PANEL.
- E6 115V-1PH, 5.0 AMPS, J.BOX, DIRECT CONNECTION TO PRESSURE RELIEF PORT ON WALK-IN DOOR PANELS (ITEM #K-8), STUB DOWN FROM ABOVE.
- E7 115V-1PH, 288.9 AMPS, J.BOX, DIRECT CONNECTION TO TIME CLOCK MOUNTED ON EXTERIOR OF WALK-IN COOLER (ITEM #K-8) AT CEILING LINE. STUB DOWN FROM ABOVE. ELECTRICIAN TO INTERWIRE FROM TIME CLOCK TO WALK-IN BEER COOLER COIL (ITEM #K-8A) AND INTERWIRE W/THERMOSTAT AND SOLENOID VALVE.
- E8 115V-1PH, 1.125 KW, J.BOX, DIRECT CONNECTION FOR WALK-IN FREEZER LIGHTS (ITEM #K-8), STUB DOWN FROM ABOVE, ELECTRICIAN TO MOUNT AND INTERWIRE (2) EXTRA LIGHTS TO SWITCH ON DOOR PANEL.
- E9 115V-1PH, 5.0 AMPS, J.BOX, DIRECT CONNECTION TO PRESSURE RELIEF PORT ON WALK-IN DOOR PANELS (ITEM #K-8), STUB DOWN FROM ABOVE.
- E10 208V-3PH, 2.8 AMPS, RECEPTACLE FOR FOOD PROCESSORS, +48"AFF. ELECTRICIAN TO SUPPLY AND INSTALL CORD AND PLUG SET.
- E11 115V-1PH, 20.0 AMPS, CONVENIENCE DUPLEX RECEPTACLE, CORD AND RECEPTACLE HANGING FROM CEILING TO A HEIGHT OF 72"AFF.
- E12 208V-3PH, 2.8 AMPS, RECEPTACLE FOR FOOD PROCESSORS, CORD AND PLUG HANGING FROM CEILING TO A HEIGHT OF 72"AFF. ELECTRICIAN TO SUPPLY AND INSTALL CORD AND PLUG SET.
- E13 208V-3PH, 2.0 J.BOX, DIRECT CONNECTION TO DISPOSAL (ITEM #K-11), +18"AFF. ELECTRICIAN TO INTERWIRE DISPOSAL W/CONTROL PANEL AND SOLENOID VALVE.
- E14 115V-1PH, 16.0 AMPS, J.BOX, DIRECT CONNECTION TO DISHWASHER (ITEM #K-12), +72"AFF.
- E15 208V-3PH, 15.0 AMPS, J.BOX, DIRECT CONNECTION FOR ICE MAKER (ITEM #K-18), +96"AFF. ELECTRICIAN TO RUN 208V-1PH, 1.3 AMPS TO CONDENSER ON ROOF (ITEM #K-18B) FROM TERMINAL BLOCK ON ICE MAKER.
- E16 115V-1PH, J.BOX, DIRECT CONNECTION TO MICRO SWITCH ON FIRE SUPPRESSION SYSTEM MOUNTED ON WALL (ITEM #K-33), STUB DOWN FROM ABOVE. MICRO SWITCH CIRCUITS TO BE WIRED BACK TO HOOD CONTROL PANEL. HOOD CONTROL PANEL TO ACTIVATE THE FOLLOWING: ELECTRICIAN TO INTERWIRE TO FIRE SUPPRESSION SYSTEM (ITEM #K-21)
- A) ALL GAS TO TURN OFF
B) ALL ELECTRIC UNDER HOOD TO TURN OFF
C) EXHAUST FAN TO TURN ON OR STAY ON
D) MAKE-UP AIR FAN TO TURN OFF OR STAY OFF
E) BUILDING FIRE ALARM AND/OR ANNUNCIATOR PANEL TO BE ACTIVATED AS PER LOCAL CODE.
- **** E17 115V-1PH, .75 KW, J.BOX, DIRECT CONNECTION TO HOOD LIGHTS (ITEM #K-21), STUB DOWN FROM ABOVE
- **** E18 115V-1PH, .75 KW, J.BOX, DIRECT CONNECTION TO HOOD LIGHTS (ITEM #K-22), STUB DOWN FROM ABOVE
- E19 ELECTRICIAN TO WIRE HOOD CONTROL PANEL AS PER MECHANICAL PLANS. STUB DOWN FROM ABOVE. ELECTRICIAN TO INTERWIRE LIGHTS AND HEAT SENSORS ON HOOD W/CONTROL PANEL.
- **** E20 115V-1PH, 9.8 AMPS EACH, RECEPTABLES FOR CONVECTION OVENS (ITEM #K-25), +36"AFF.
- **** E21 115V-1PH, 10.0 AMPS, RECEPTACLE FOR KETTLES (ITEM #K-26), +18"AFF.
- E22 208V-3PH, 10.0 AMPS, RECEPTACLE FOR MIXER (ITEM #K-30), +48"AFF. ELECTRICIAN TO SUPPLY AND INSTALL CORD AND PLUG SET.
- E23 208V-1PH, 7.0 AMPS, RECEPTACLE FOR COOKIE DEPOSITOR (ITEM #K-31), +48"AFF. ELECTRICIAN TO SUPPLY AND INSTALL CORD AND PLUG SET.

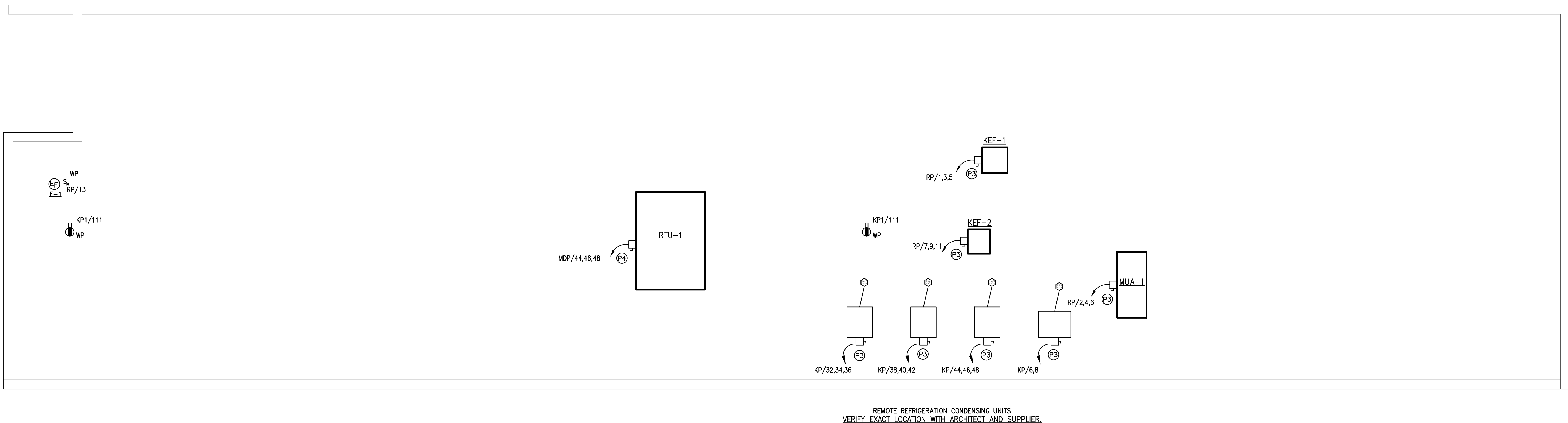
ELECTRIC ROUGH-INS ON ROOF

- E30 208V-3PH, 21.0 AMPS, J.BOX, DIRECT CONNECTION TO WALK-IN COOLER COMPRESSOR (ITEM #K-18)
- E31 208V-3PH, 21.0 AMPS, J.BOX, DIRECT CONNECTION TO WALK-IN COOLER COMPRESSOR (ITEM #K-8B)
- E32 208V-3PH, 14.0 AMPS, J.BOX, DIRECT CONNECTION TO WALK-IN FREEZER COMPRESSOR (ITEM #K-8D) ELECTRICIAN TO RUN (6) #12 WIRES FROM COMPRESSOR ON ROOF TO WALK-IN FREEZER COIL (ITEM #K-8D) AND INTERWIRE WITH SOLENOID VALVE AND THERMOSTAT ON COIL.
- E33 208V-1PH, 1.3 AMPS, J.BOX, DIRECT CONNECTION TO ICE MAKER CONDENSER (ITEM #K-18B) FROM ICE MAKER HEAD

ELECTRICIAN TO DO ALL NECESSARY ROUGH-INS AND FINAL CONNECTIONS AFTER EQUIPMENT IS SET IN PLACE.



1 FLOOR PLAN POWER
3/16" = 1'-0"



2 ROOF PLAN POWER
3/16" = 1'-0"

PROFESSIONAL SEAL

SUBMITTALS

#	Description	Date
1	ISSUE FOR PERMIT	02/26/2014

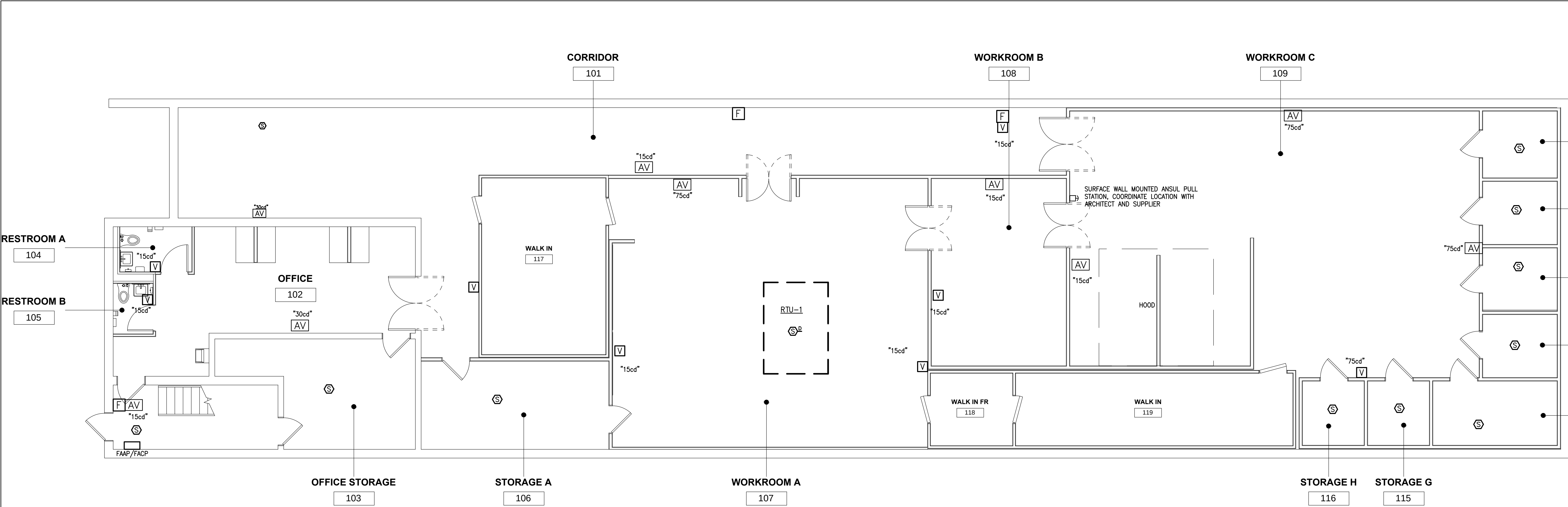
SCRATCH DC
3618 EVARTS ST. NE
WASHINGTON, DC 20018

FLOOR PLANS
ELECTRICAL POWER

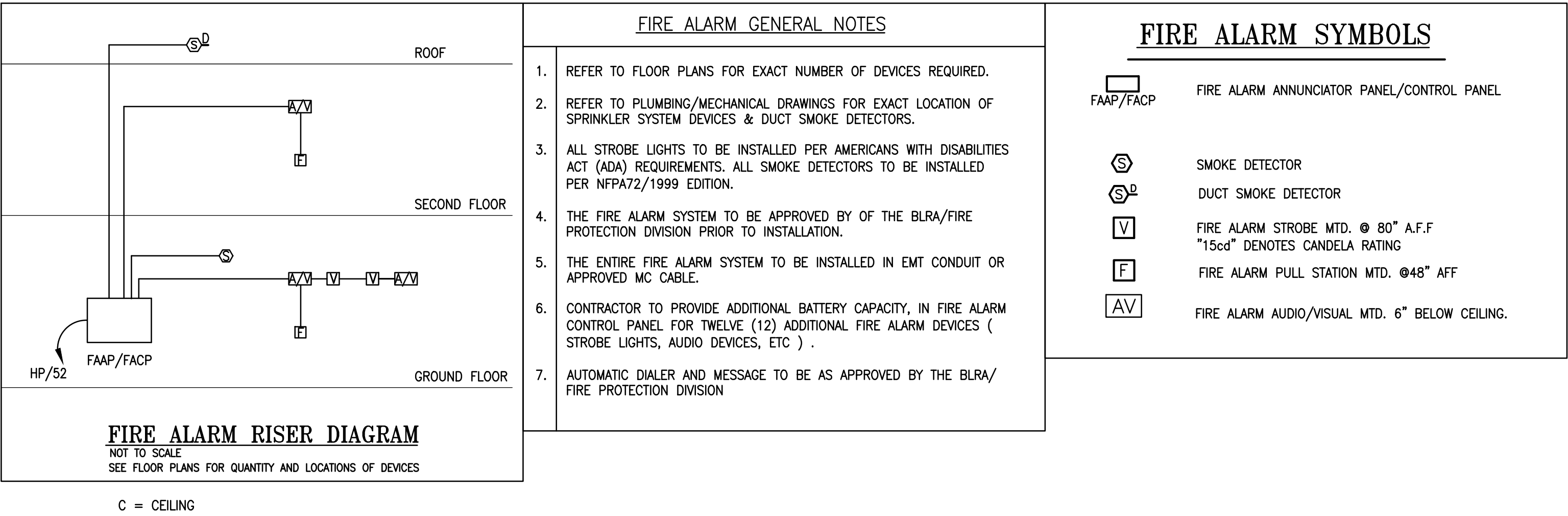
E-3

Project # 13-269 Date FEB 25, 2014
Managed By AS Drawn By

Scale: As indicated



1 FLOOR PLAN POWER
3/16" = 1'-0"



streetsense.

3 Bethesda Metro
Suite 140
Bethesda, Maryland 20814
301.652.9020 (p) • 301.652.9166 (f)
www.streetsense.com

scratchDC

Capitol Engineering Group, LLC
1825 K Street NW, Suite 375
Washington, DC 20006
Phone: 202-216-0039
Fax: 202-216-0067
Project No: 14017

NOTES

PROFESSIONAL SEAL

SUBMITTALS

#	Description	Date
1	ISSUE FOR PERMIT	02/26/2014

SCRATCH DC
2610 EVARTS ST. NE
WASHINGTON, DC 20018

FLOOR PLANS
FIRE ALARM

E-4

Project #	13-269	Date	FEB 25, 2014
Managed By	AS	Drawn By	
Scale:	As indicated		

PANEL SCHEDULE:										RP		42 KVA NEW					
VOLTAGE: 120/208V, 3ø, 4w LOCATION: GROUND FLOOR										PANELBOARD NOTES: PROVIDE FEED THRU LUGS						BUS SIZE: 100A MAIN: 100A MLO	
DESCRIPTION		KVA	RATING	NO.	POLE	NO.	RATING	KVA	DESCRIPTION								
KEF-1		5.4	20/3	1	A	2	20/3*	5.4	MAU-1								
--		--	--	3	B	4	--	--	--								
--		--	--	5	C	6	--	--	--								
KEF-2		0.7	20/3	7	A	8	20/1	0.1	CARBON MONOXIDE SENSOR								
--		--	--	9	B	10	20/1	--	SPARE								
--		--	--	11	C	12	20/1	--	SPARE								
F-1		0.3	20/1	13	A	14	--/1	--	SPACE								
SPARE		--	20/1	15	B	16	--/1	--	SPACE								
SPARE		--	20/1	17	C	18	--/1	--	SPACE								
SPARE		--	20/3	19	A	20	--/1	--	SPACE								
--		--	--	21	B	22	--/1	--	SPACE								
--		--	--	23	C	24	--/1	--	SPACE								
SPARE		--	20/3	25	A	26	--/1	--	SPACE								
--		--	--	27	B	28	--/1	--	SPACE								
--		--	--	29	C	30	--/1	--	SPACE								
PANELBOARD CONNECTED LOAD: 11.8 KVA																	
PANELBOARD DEMAND LOAD: 13.2 KVA																	

DEMAND LOAD CALCULATION PANEL				Connected Load	Demand Load
NEC - Article Number	Demand Factor	KVA	KVA		
220-1(A)	100 %			0.0	0.0
Specific Appliances					
220-56	65 %			0.0	0.0
Specific Appliances(Kitchen)					
220-42	125 %			0.0	0.0
Lighting					
220-44	100 % (first 10 KVA)			0.0	0.0
Receptacles	50 % (over 10 KVA)				
220-50	Motors at 100 %			0.4	0.4
Motors	Largest at 125 %				
220-60	100 % of the largest...			0.0	0.0
Noncoincident Loads					
Demand Load					13.2

PANEL SCHEDULE:					KP		42 KAC NEW		
					PANELBOARD NOTES: PROVIDE FEED THRU LUGS				
					BUS SIZE: 200A MAIN: 200A MLO				
VOLTAGE: 120/208V, 3ø, 4W									
LOCATION: GROUND FLOOR									
DESCRIPTION	KVA	RATING	NO.	POLE	NO.	RATING	KVA	DESCRIPTION	
WALK-IN COOLER LIGHTS E2, K-1	1.1	20/1	1	A	2	20/3	5.4	ICE MAKER E-15, K-18	
WALK-IN COOLER DOOR E3, K-1	0.6	20/1	3	B	4	—	—	—	
WALK-IN COOLER EXT. E4, K-1	0.9	20/1	5	C	6	—	—	—	
WALK-IN COOLER LIGHTS E5, K-8	1.1	20/1	7	A	8	20/2	0.3	ICE MAKER E-33, K-18B CONDENSER	
WALK-IN COOLER DOOR E6, K-8	0.6	20/1	9	B	10	—	—	—	
WALK-IN COOLER EXT. E7, K-8A	0.5	20/1	11	C	12	20/1**	1.5	FIRE SUPPRESSION SYSTEM E16, K-63	
WALK-IN COOLER EXT. E7, K-8A	0.5	20/1	13	A	14	20/1*	0.1	HOOD LIGHTS E-17, K-21	
WALK-IN FREEZER LIGHTS E8, K-8	1.1	20/1	15	B	16	20/1*	0.1	HOOD LIGHTS E-18, K-21	
WALK-IN DOOR E9, K-8	0.6	20/1	17	C	18	20/1*	1.2	CONNECTION OVENS E-20, K-25	
FOOD PROCESSORS E10	1.0	20/3	19	A	20	20/1**	1.0	KETTLES E-21, K-26	
—	—	—	21	B	22	20/3	3.6	MIXER E-22, K-30	
—	—	—	23	C	24	—	—	—	
FOOD PROCESSORS E12	1.0	20/3	25	A	26	—	—	—	
—	—	—	27	B	28	20/2	1.5	COOKIE DEPOSITOR E-23, K-31	
—	—	—	29	C	30	—	—	—	
DISPOSAL E13, K-11	2.8	20/3	31	A	32	30/3	7.6	WALK IN COOLER E-30, K-1B	
—	—	—	33	B	34	—	—	—	
—	—	—	35	C	36	—	—	—	
DISHWASHER E14, K-12	1.9	20/1	37	A	38	30/3	7.6	WALK IN COOLER E-31, K-8B	
FOOD PROCESSORS E10	1.0	20/3	39	B	40	—	—	—	
—	—	—	41	C	42	—	—	—	
—	—	—	43	A	44	20/3	5.0	WALK IN FREEZER E-32, K-80	
FOOD PROCESSORS E10	1.0	20/3	45	B	46	—	—	—	
—	—	—	47	C	48	—	—	—	
—	—	—	49	A	50	20/3	1.0	FOOD PROCESSORS E12	
FOOD PROCESSORS E10	1.0	20/3	51	B	52	—	—	—	
—	—	—	53	C	54	—	—	—	
—	—	—	55	A	56	20/1	0.5	CONVENIENCE OUTLET E1	
CONVECTION OVENS E-20, K-25	1.2	20/1*	57	B	58	20/1	0.5	CONVENIENCE OUTLET E1	
CONVENIENCE OUTLET E1	0.5	20/1	59	C	60	20/1	0.5	CONVENIENCE OUTLET E1	
					PANELBOARD CONNECTED LOAD: 59.0 KVA				
					PANELBOARD DEMAND LOAD: 40.6 KVA				

DEMAND LOAD CALCULATION PANEL				Connected Load	Demand Load
NEC - Article Number	Demand Factor	KVA	KVA		
220-1(A)	100 %			0.0	0.0
Specific Appliances					
220-56	65 %			53.8	35.0
Specific Appliances(Kitchen)					
220-42	125 %			0.0	0.0
Lighting					
220-44	100 % (first 10 KVA)			0.0	0.0
Receptacles	50 % (over 10 KVA)				
220-50	Motors at 100 %			1.5	1.5
Motors	Largest at 125 %			1.7	3.1
220-60	100 % of the largest...			0.0	0.0
Noncoincident Loads					
Demand Load					40.6

PANEL SCHEDULE:						KP1		42 KVA		NEW					
						PANELBOARD NOTES: PROVIDE FEED THRU LUGS									
VOLTAGE: 120/208V, 3ø, 4W															
LOCATION: GROUND FLOOR															
DESCRIPTION						BUS SIZE: 200A MAIN: 200A MLO									
FOOD PROCESSORS E10						KVA	RATING	NO.	POLE	NO.	RATING	KVA	DESCRIPTION		
—						—	1.0	20/3	1	A	2	20/3	1.0	FOOD PROCESSORS E12	
—						—	—	—	3	B	4	—	—	—	
—						—	—	—	5	C	6	—	—	—	
FOOD PROCESSORS E10						1.0	20/3	7	A	8	20/3	1.0	FOOD PROCESSORS E12		
—						—	—	—	9	B	10	—	—	—	
—						—	—	—	11	C	12	—	—	—	
FOOD PROCESSORS E10						1.0	20/3	13	A	14	20/3	1.0	FOOD PROCESSORS E12		
—						—	—	—	15	B	16	—	—	—	
—						—	—	—	17	C	18	—	—	—	
FOOD PROCESSORS E10						1.0	20/3	19	A	20	20/3	1.0	FOOD PROCESSORS E12		
—						—	—	—	21	B	22	—	—	—	
—						—	—	—	23	C	24	—	—	—	
FOOD PROCESSORS E10						1.0	20/3	25	A	26	20/3	1.0	FOOD PROCESSORS E12		
—						—	—	—	27	B	28	—	—	—	
—						—	—	—	29	C	30	—	—	—	
FOOD PROCESSORS E10						1.0	20/3	31	A	32	20/3	1.0	FOOD PROCESSORS E12		
—						—	—	—	33	B	34	—	—	—	
—						—	—	—	35	C	36	—	—	—	
FOOD PROCESSORS E10						1.0	20/3	37	A	38	20/3	1.0	FOOD PROCESSORS E12		
—						—	—	—	39	B	40	—	—	—	
—						—	—	—	41	C	42	—	—	—	
FOOD PROCESSORS E10						1.0	20/3	43	A	44	20/3	1.0	FOOD PROCESSORS E12		
—						—	—	—	45	B	46	—	—	—	
—						—	—	—	47	C	48	—	—	—	
FOOD PROCESSORS E10						1.0	20/3	49	A	50	20/3	1.0	FOOD PROCESSORS E12		
—						—	—	—	51	B	52	—	—	—	
—						—	—	—	53	C	54	—	—	—	
FOOD PROCESSORS E10						1.0	20/3	55	A	56	20/3	1.0	FOOD PROCESSORS E12		
—						—	—	—	57	B	58	—	—	—	
—						—	—	—	59	C	60	—	—	—	
PANELBOARD CONNECTED LOAD: 49.4 KVA															
PANELBOARD DEMAND LOAD: 40.6 KVA															

DEMAND LOAD CALCULATION PANEL				Connected Load	Demand Load
NEC - Article Number	Demand Factor	KVA	KVA		
220-1(A)	100 %			0.5	0.5
Specific Appliances					
220-56	65 %			29.0	18.9
Specific Appliances(Kitchen)					
220-42	125 %			5.6	7.0
Lighting					
220-44	100 % (first 10 KVA)			0.0	0.0
Receptacles	50 % (over 10 KVA)			0.0	0.0
220-50	Motors at 100 %			0.0	0.0
Motors	Largest at 125 %			0.0	0.0
220-60	100 % of the largest...			3.0	3.0
Noncoincident Loads					
Demand Load					38.1

PANEL SCHEDULE:				KP				42 KVA NEW			
				PANELBOARD NOTES: PROVIDE FEED THRU LUGS				BUS SIZE: 200A MAIN: 200A MLO			
VOLTAGE: 120/208V, 3ø, 4W											
LOCATION: GROUND FLOOR											
DESCRIPTION				KVA	RATING	NO.	POLE	NO.	RATING	KVA	DESCRIPTION
FOOD PROCESSORS E10				1.0	20/3	61	A	62	20/3	1.0	FOOD PROCESSORS E12
--				--	--	63	B	64	--	--	--
--				--	--	65	C	66	--	--	--
FOOD PROCESSORS E10				1.0	20/3	67	A	68	20/3	1.0	FOOD PROCESSORS E12
--				--	--	69	B	70	--	--	--
--				--	--	71	C	72	--	--	--
FOOD PROCESSORS E10				1.0	20/3	73	A	74	20/3	1.0	FOOD PROCESSORS E12
--				--	--	75	B	76	--	--	--
--				--	--	77	C	78	--	--	--
FOOD PROCESSORS E10				1.0	20/3	79	A	80	20/3	1.0	FOOD PROCESSORS E12
--				--	--	81	B	82	--	--	--
--				--	--	83	C	84	--	--	--
FOOD PROCESSORS E10				1.0	20/3	85	A	86	20/3	1.0	FOOD PROCESSORS E12
--				--	--	87	B	88	--	--	--
--				--	--	89	C	90	--	--	--
FOOD PROCESSORS E10				1.0	20/3	91	A	92	20/3	1.0	FOOD PROCESSORS E12
--				--	--	93	B	94	--	--	--
--				--	--	95	C	96	--	--	--
FOOD PROCESSORS E10				1.0	20/3	97	A	98	20/3	1.0	FOOD PROCESSORS E12
--				--	--	99	B	100	--	--	--
--				--	--	101	C	102	--	--	--
FOOD PROCESSORS E10				1.0	20/3	103	A	104	20/3	1.0	FOOD PROCESSORS E12
--				--	--	105	B	106	--	--	--
--				--	--	107	C	108	--	--	--
FOOD PROCESSORS E10				1.0	20/3	109	A	110	20/3	1.0	FOOD PROCESSORS E12
--				--	--	111	B	112	--	--	--
--				--	--	113	C	114	--	--	--
FOOD PROCESSORS E10				1.0	20/3	115	A	116	20/1	1.7	GAS BOOSTER PUMP
--				--	--	117	B	118	20/2	1.5	CEILING FAN
--				--	--	119	C	120	--	--	--