

GENERAL NOTES

1. THE CONTRACTOR AND SUB-CONTRACTORS SHALL CHECK AND VERIFY ALL DIMENSIONS, NOTES AND CONDITIONS AT THE SITE BEFORE WORK IS STARTED. ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES.
2. WHEN EXCAVATIONS ARE MADE IN ORDER TO PLACE FOOTINGS FOR FOUNDATION PIERS AND ADJOINING STRUCTURES, THEREFORE THE FOLLOWING NOTE WILL BE PLACED ON THE 10F-AMENDMENT FOR CONTROLLED INSPECTION.
3. THE CONTRACTOR SHALL USE FIGURE DIMENSIONS AT ALL TIMES. DO NOT SCALE PLANS.
4. THE CONTRACTOR AND/OR SUB-CONTRACTORS SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS.
5. CONTRACTOR IS TO CARRY WORKMEN'S COMP. AND DISABILITY INSURANCE AS REQUIRED BY N.Y.C. DEPARTMENT OF BUILDINGS.
6. AT A HEIGHT OF NO MORE THAN 12 FT. ABOVE GROUND AND ON EACH PERIMETER OF A CONSTRUCTION SITE FRONTING A THOROUGHFARE, A SIGN SHALL BE ERRECTED, NO MORE THAN 25 SQ. FT. IN SIZE WHICH SHALL BEAR, IN LETTERS NO LESS THAN 6" HIGH, THE NAME, ADDRESS, AND PHONE NUMBER OF THE OWNER AND GENERAL CONTRACTOR.
7. THE CONTRACTOR SHALL NOTIFY THE ADJOINING PROPERTY OWNERS, IN WRITING, 5 DAYS BEFORE ANY COMMENCEMENT OF WORK. THE NOTICES SHALL BE FILED WITH THE DEPT. OF BUILDINGS BEFORE ANY PERMITS CAN BE ISSUED.
8. THE ARCHITECT HAS NOT BEEN RETAINED TO SUPERVISE CONSTRUCTION.
9. NO BACK FILLING SHALL BE DONE UNTIL THE FOUNDATION WALL HAS BEEN BRACED AND WATERPROOFING HAS BEEN APPLIED.
10. A FINAL SURVEY MADE BY A LICENSED SURVEYOR, SHOWING BUILDING ON PLOT, ALL YARD DIMENSIONS, FILLED AND ACTUAL GRADES AND REAR YARD ELEVATIONS, AND 1ST FLOOR ELEVATIONS, SHALL BE FILED WITH THE DEPT. OF BLDGS. AT THE COMPLETION OF THE JOB.
11. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO INSURE THE SAFETY OF THE SITE AND ADJOINING PROPERTIES.
12. ALL DIMENSIONS SHOWN HEREIN ARE APPROXIMATE AND MAY VARY DUE TO UNSEEN EXISTING CONDITIONS.
13. ALL CONCRETE AND CINDER BLOCK SHALL BE B.S.A. APPROVED. ALL MASONRY WALLS SHALL BE LAID IN PORTLAND CEMENT MORTAR AS PER RS 10-1.
14. THE MANUFACTURER OR SUPPLIER OF ANY MASONRY UNITS SHALL SUBMIT CERTIFICATIONS ON APPROPRIATE FORMS INDICATING THAT THE MASONRY UNITS FURNISHED FOR THIS PROJECT COMPLY WITH R.S. 10-3.3.2 (10H & 10J FORMS).
15. UNLESS OTHERWISE NOTED, ALL CONCRETE FOOTINGS TO BE 12" THICK.
16. UNDER BEAM BEARING THERE SHALL BE 3 COURSES OF BRICK BEARING AS PER RS 10-1 SEC. 10.5.
17. ALL GAS AND OIL BURNING EQUIPMENT SHALL CONFORM TO SEC. 27-800 & RS 14.
18. ALL BOILER AND FURNACE ROOM SHALL BE AS PER SUB-ARTICLE 27-418 ARTICLE 5.
19. ALL ROOFING SHALL BE OF AN APPROVED TYPE AS PER SEC. 27-337.
20. CHIMNEY TO BE SOLID MASONRY OR B.S.A. APPROVED METAL FLUE ENCLOSED IN 3" 1/2" METAL STUDS WITH 5/8" SHEETROCK F.C. 60 ON EACH SIDE AND FIRE STOPPED AT EACH FLOOR.
21. NO CURB CUT TO BE WITHIN 7'-0" OF ANY LIGHT POLE, TREE, OR HYDRANT.
22. STEEL LINTELS SUPPORTING MASONRY OPENINGS OVER 4 FEET IN WIDTH SHALL BE 2" THICK. LINTELS SUPPORTING MASONRY OPENINGS OVER 4 FEET IN WIDTH SHALL BE FIRE PROTECTED WITH 2" CONCRETE ON WIRE LATH AND HAVE A MIN. WEB THICKNESS OF 1/4".
23. ALL LOOSE LINTELS TO BE 1"-4" LONGER THAN MASONRY OPENING.
24. PROVIDE AND INSTALL FABRIC FLASHING AT SPANDREL BEAMS, EXTERIOR LINTELS, AND UNDER SILLS. ALSO PROVIDE 3/8" DIAM. WEEP HOLES EVERY 24" O.C.
25. HIGHWAY DEPT. APPROVAL WILL BE OBTAINED FOR SIDEWALK AND OTHER WORK BEYOND FRONT LOT LINE.
26. DEPARTMENT OF HIGHWAY APPROVAL SHALL BE OBTAINED BEFORE A CERTIFICATE OF OCCUPANCY CAN BE ISSUED.
27. APPROVED TYPE MAIL RECEPTACLE TO BE PROVIDED AS PER REGULATIONS OF THE POST OFFICE.

SMOKE DETECTOR NOTES

1. SMOKE DETECTORS SHALL BE INSTALLED AS REQUIRED BY SUBCHAPTER 17 ENTITLED "SMOKE DETECTING CARBON MONOXIDE DEVICES" (C26-1705.01) IN DWELLING UNITS.
2. DETECTORS SHALL BE EITHER IONIZATION CHAMBER OR PHOTOELECTRIC TYPE AND TO COMPLY WITH RS17-11.
3. UNITS TO BE APPROVED BY THE BOARD OF STANDARDS AND APPEALS ACCEPTED PURSUANT TO RULES AND REGULATIONS PROMULGATED BY THE COMMISSIONER OR LISTED BY AN ACCEPTABLE TESTING LABORATORY, SUCH AS:
 - (A) UNDERWRITER'S LABORATORY, NORTHBROOK, ILLINOIS, MEA LAB
 - (B) CANADIAN STANDARD ASSOCIATION, ONTARIO CANADA LAB
 - (C) UNDERWRITER'S LAB. OF CANADA, ONTARIO, CANADA, MEA LAB
4. UNITS SHALL BE INSTALLED IN AREAS DESIGNATED ON PLANS; THEY SHALL LOCATED ON OR NEAR THE CEILING AND WITHIN 15'-0" OF ANY ROOMS USED FOR SLEEPING PURPOSES; FOR DWELLING UNITS WITH MULTIPLE LEVELS, WHEN ANY LEVEL HAS ONLY ONE MEANS OF EGRESS, UNITS SHALL BE PROVIDED AT ALL LEVELS.
5. SMOKE DETECTORS SHALL BE INSTALLED AS FOLLOWS:
 - (A) CEILING MOUNT- CLOSEST EDGE OF UNIT SHALL BE MIN. OF 4" FROM ANY WALL.
 - (B) WALL MOUNT- CLOSEST EDGE OF UNIT SHALL BE MIN. OF 6" AND A MAX. OF 12" FROM CEILING.

GYPSUM WALL BOARD NOTES

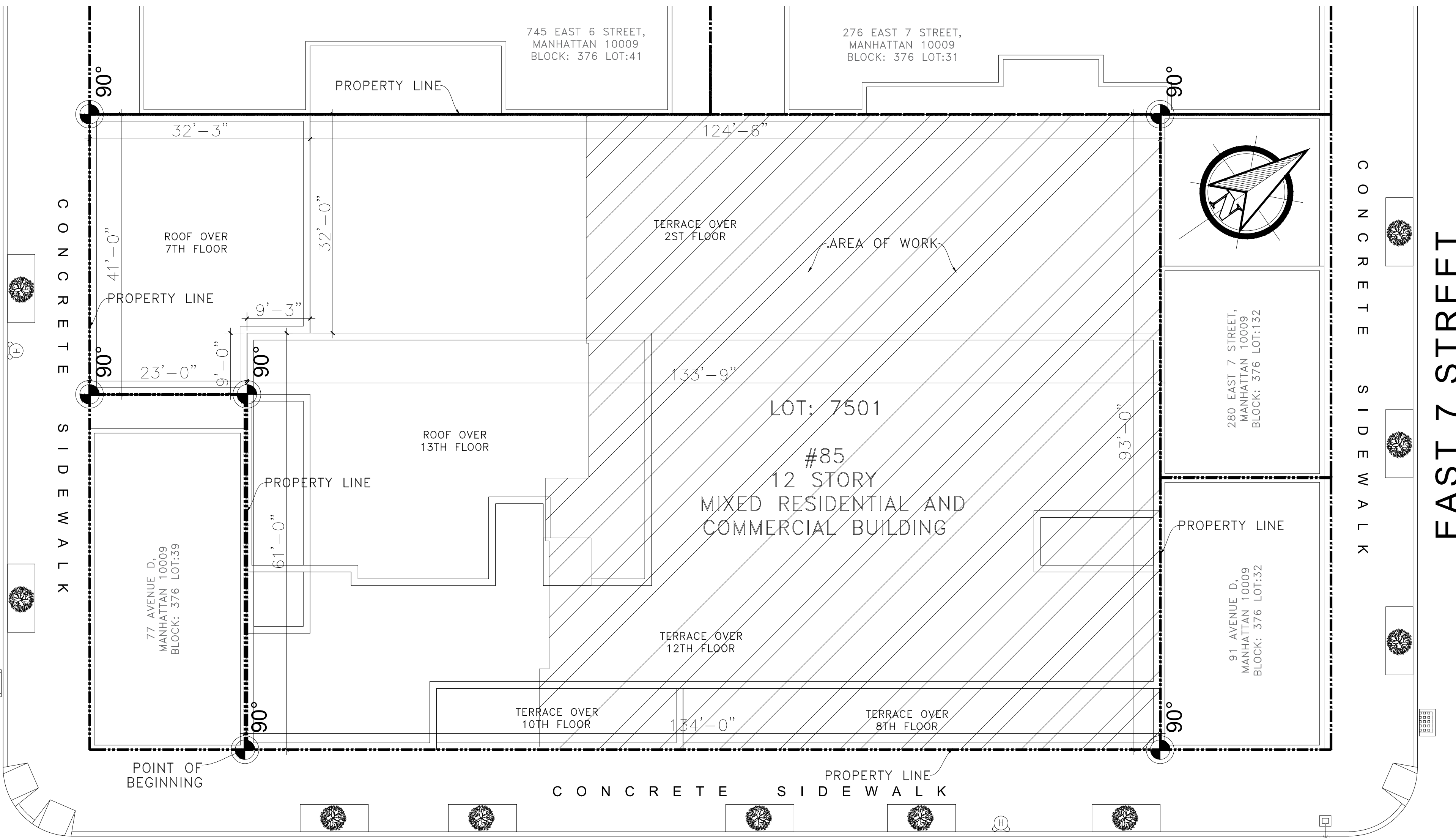
1. PROVIDE GYPSUM WALLBOARD MATERIALS IN SIZES AND TYPES AS INDICATED ON THE DRAWINGS.
2. DELIVER TO JOB SITE IN ORIGINAL PACKAGES, BEARING MANUFACTURERS NAME.
3. KEEP MATERIALS FLAT, UNDER COVER AND OUT OF CONTACT WITH DAMP SURFACES UNTIL READY FOR USE.
4. GOLD BOND (MASONRY GYPSUM CO.), U.S. GYPSUM CO., DONN PRODUCTS, APPROVED BY ARCHITECT.
5. FOLLOW MANUFACTURERS INSTRUCTIONS FOR FIRST CLASS WORKMANSHIP IN ALL RESPECTS MATERIALS AND COMPONENTS, INCLUDING PREPARATION, LAYOUT, ALIGNMENT, USE OF POWER TOOLS, SEQUENCE OF ERECTION, TYPES AND SPACINGS OF FASTENERS, APPLICATIONS OF TAPE, JOINT COMPOUND, TAPING COMPOUND, AND FITTINGS AROUND ELECTRICALS AND ELECTRICAL ITEMS. SEAL AND TAPE ALL JOINTS, SCREW HOLES, NAIL HOLES, SUCCESSIVE APPLICATIONS (3) OF SPACKLING COMPOUND, WITH SANDING TO ACHIEVE A SMOOTH, LEVEL TRUE SURFACE, WITHOUT WAVES, DIMPLES OR OTHER DEFECTS, READY FOR PAINTING.

ELECTRICAL NOTES

1. THE CONTRACTOR SHALL OBTAIN ALL PERMITS, APPROVALS, AFFIDAVITS, CERTIFICATES, ETC. AND PAY ALL FEES AS REQUIRED BY THE LOCAL AUTHORITIES AND FIRE UNDERWRITERS AND/OR THE N.Y.C. BUREAU OF ELECTRICAL CONTROL.
2. ALL WORK SHALL BE IN STRICT ACCORDANCE WITH ALL LOCAL LAWS AND REGULATIONS AND THE NATIONAL ELECTRICAL CODE.
3. THE CONTRACTOR SHALL EXAMINE THE EXISTING SERVICE AND PANEL TO DETERMINE ITS CAPACITY AND CONDITION AND VERIFY ITS ADEQUACY TO SERVE THE EXISTING AND NEW EQUIPMENT AS INDICATED ON PLAN. IN THE EVENT THAT THE CONTRACTOR DETERMINES THAT THE SERVICE IS NOT ADEQUATE HE SHALL INCLUDE A SEPARATE BID TO INSTALL A NEW SERVICE AND PANEL.
4. ALL NEW FIXTURES SHALL BE FURNISHED BY THE OWNER AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
5. ALL CEILING FIXTURES SHALL BE SWITCHED WITH DIMMER SWITCHES. WHERE MULTIPLE SWITCHES MAY BE REQUIRED CONTRACTOR IS TO INSTALL " GANG" TYPE UNITS.
6. ALL BATH, TOILET AND KITCHEN TYPE OUTLETS SHALL BE GFI APPROVED TYPE.
7. THE CONTRACTOR SHALL OBTAIN FIRE UNDERWRITERS AND/OR N.Y.C. BUREAU OF ELECTRICAL CONTROL CERTIFICATION UPON COMPLETION OF HIS WORK.

FOUNDATION, CONCRETE, AND M.

1. CONTRACTORS TO VERIFY ALL DIMENSIONS OF EXISTING FOUNDATION AS IT APPLIES TO THE NEW YORK BEING PERFORMED AND SHALL COORDINATE THE SUB-CONTRACTORS IN SUCH A MANNER TO ASSURE THAT THE CONDITIONS OF THE FIRST AND SECOND FLOORS ARE TAKEN INTO ACCOUNT.
2. ALL FOOTINGS TO BEAR ON FIRM, VIRGIN, UNDISTURBED SOIL.
3. SOIL TO HAVE MIN. BEARING CAPACITY OF (1) TON/SQ. FT. U.O.N
4. FOOTING TO REST A MIN. OF 4'-0" BELOW GRADE, UNLESS OTHERWISE NOTED.
5. WALLS TO BE POURED CONCRETE OF SIZE SHOWN ON DRAWINGS, U.O.N.
6. NO BACK FILL SHALL BE PLACED AGAINST FOUNDATION WALLS UNTIL 1ST TIER OF FRAMING IS IN PLACE.
7. FOOTING TO BE POURED CONCRETE OS SIZE SHOWN ON DRAWINGS.
8. ALL OPENINGS FOR BEAM POCKETS, UTILITIES, ETC. TO BE FILLED SOLID WITH CONCRETE.
9. ANCHOR BOLTS SHALL BE IN ACCORDANCE WITH PAGE A-300
10. ALL CONCRETE TO HAVE AN ULTIMATE COMPRESSIVE STRENGTH AT 28 DAYS OF 4,000.P.S.I., U.O.N.
11. CONC. SLABS TO REST ON MIN. OF 6" FINE GRAVEL OR SAND WITH 6 MIL. POLYETHYLENE VAPOR BARRIER UNDER.
12. COPPER FLSH ALL JOINTS WHERE SLAB ABUTS ABUTS FRAMING.
13. BRICK VENEER TO BE ANCHORED WITH CORROSION RESISTANT TIES- (1) WALL TIE PER (3) SQ.FT.
14. FLASH JOINT AT BRICK LEDGE AND PROVIDE WEEP HOLES MAX. 32'-0" O.C. TO DIRECT ANY CONDENSATION TO THE EXTERIOR.
15. APPLY (1) COAT OF TAR BASED WATERPROOFING TO EXTERIOR OF FOUND. FROM FOOTING TO 2" ABOVE FINISH GRADE.
16. NO CONCRETE OR MASONRY WORK IS TO BE PERFORMED IN TEMPERATURES OF 40 F AND FALLING, UNLESS APPROVED BY ARCHITECT/ENGINEER. NO CONCRETE SHALL BE PLACED ON FROZEN SURFACES.
17. NO ADDITIVES SHALL BE PLACED IN CONCRETE UNLESS SPECIFIED BY ARCHITECT/ENGINEER.
18. PROVIDE BITUMINOUS JOINTS BETWEEN SLABS AND FOUNDATION WALLS AND WHERE EVER APPLICABLE, UNLESS OTHERWISE INDICATED ALL FOUNDATION FOOTINGS ARE TO BE A MIN. 10" DEEP PROJECTING 6" ON EACH SIDE OF THE FOOTING. ALL 4" THICK CONCRETE SLABS TO HAVE 6X6 10/10 WELDED WIRE REINFORCING.
19. FOR SECOND STORY ADDITIONS, EXIST. FOUNDATIONS ARE TO BE VERIFIED AS IN SOLID & SOUND CONDITION WITH AN EXIST. FOOTING OF MIN. 16" WIDE X 8" DEEP & 3'-0" BELOW GRADE.



AVENUE D PLOT PLAN
SCALE: 3/32"=1'-0"

2014 ADMINISTRATIVE NOTES

1. THE PROVISION OF THIS CHAPTER SHALL APPLY TO THE ADMINISTRATION OF THE CODES SET FORTH IN THIS TITLE AND THE 1968 BUILDING CODE. THIS TITLE SHALL BE KNOWN AND MAY BE CITED AS THE "NEW YORK CITY CONSTRUCTION CODES" AND INCLUDES:
 - THE NEW YORK CITY PLUMBING CODE.
 - THE NEW YORK CITY BUILDING CODE.
 - THE NEW YORK CITY MECHANICAL CODE.
 - THE NEW YORK CITY FUEL GAS CODE.
 - THE NEW YORK CITY ENERGY CONSERVATION CODE.
2. THE PURPOSE OF THE NEW YORK CITY CONSTRUCTION CODES IS TO PROVIDE REASONABLE MINIMUM REQUIREMENTS AND STANDARDS, BASED UPON CURRENT SCIENTIFIC AND ENGINEERING KNOWLEDGE, EXPERIENCE AND TECHNIQUES, AND THE UTILIZATION OF MODERN MACHINERY, EQUIPMENT, MATERIALS, AND FORMS AND METHODS OF CONSTRUCTION, FOR THE REGULATION OF BUILDING CONSTRUCTION IN THE CITY OF NEW YORK IN THE INTEREST OF PUBLIC SAFETY, HEALTH, WELFARE AND THE ENVIRONMENT, AND WITH DUE REGARD FOR BUILDING CONSTRUCTION AND MAINTENANCE COSTS.
3. ANY REFERENCE IN THIS TITLE TO "THIS CODE" OR "THE CODE" SHALL BE DEEMED TO BE A REFERENCE TO THIS TITLE AND ALL OF THE CODES COMPRISING THE NEW YORK CITY CONSTRUCTION CODES UNLESS THE CONTEXT OR SUBJECT MATTER REQUIRES OTHERWISE.
4. EXCEPT AS OTHERWISE PROVIDED IN SECTIONS 28-101.4.1, 28-101.4.2, 28-101.4.3 AND 28-101.4.4 ON AND AFTER JULY 1, 2008, ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROVISIONS OF THIS CODE.
5. AS USED IN THIS CHAPTER AND ELSEWHERE IN THIS TITLE, THE FOLLOWING TERMS SHALL HAVE THE FOLLOWING MEANINGS UNLESS THE CONTEXT OR SUBJECT MATTER REQUIRES OTHERWISE: 1968 BUILDING CODE CHAPTER 1 OF TITLE 27 OF THE ADMINISTRATIVE CODE AS HEREAFTER IN EFFECT.

TENANT PROTECTION PLAN

1. GENERAL: ALL WORK TO BE COMPLETED IN ACCORDANCE WITH THE NEW YORK CITY BUILDING CODE, ARTICLE 19, AND REGULATIONS OF ALL OTHER AGENCIES HAVING JURISDICTION.
2. MEANS OF EGRESS: ALL EXISTING MEANS OF EGRESS OF THE BUILDING TO BE MAINTAINED CLEAR AND FREE OF ALL OBSTRUCTIONS, SUCH AS BUILDING MATERIALS, TOOLS, ETC.
3. DUST CONTROL:
 - A. DEBRIS, DIRT AND DUST TO BE KEPT TO A MINIMUM AND CONFINED TO THE IMMEDIATE CONSTRUCTION AREA.
 - B. CONTRACTOR TO ISOLATE CONSTRUCTION AREA FROM OCCUPIED BUILDING AREA BY MEANS OF TEMPORARY PARTITIONS OR HEAVY WEIGHT DROP CLOTHS.
 - C. DEBRIS, DIRT, AND DUST TO BE CLEANED UP AND CLEARED FROM THE BUILDING SITE PERIODICALLY TO AVOID EXCESSIVE ACCUMULATION.
4. NOISE AFTER HOURS: A. CONSTRUCTION OPERATIONS WILL BE CONFINED TO NORMAL WORKING HOURS: 8 AM TO 6 PM, MONDAY TO FRIDAY, EXCEPT LEGAL HOLIDAYS.
5. B. CONTRACTOR MUST OBTAIN WRITTEN PERMISSION FROM ALL AFFECTED PARTIES TO WORK OTHER THAN REGULAR HOURS.
6. CONSTRUCTION OPERATIONS WILL NOT INVOLVE INTERRUPTION OF HEATING, WATER, OR ELECTRICAL SERVICES TO OTHER TENANTS.
7. PROVIDE FIRE PROTECTION AND PERSONNEL PROTECTION WHEN PERFORMING WELDING OPERATIONS.
8. THE CONTRACTOR SHALL RETAIN AND PAY FOR ALL COST ASSOCIATED WITH ALL CONTROLLED INSPECTIONS REQUIRED BY THE NYC DOB. THE CONTROLLED INSPECTIONS ARE TO BE PERFORMED BY A SPECIAL INSPECTION AGENCY REGISTERED WITH THE NYC DOB DEPARTMENT OF SPECIAL INSPECTIONS AND SUPERVISED BY A PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT LICENSES IN THE STATE OF NEW YORK. SPECIAL INSPECTION AGENCY SHALL BE RESPONSIBLE FOR ALL TESTING AND TO FILE ALL FORMS REQUIRED BY THE NYC DOB.

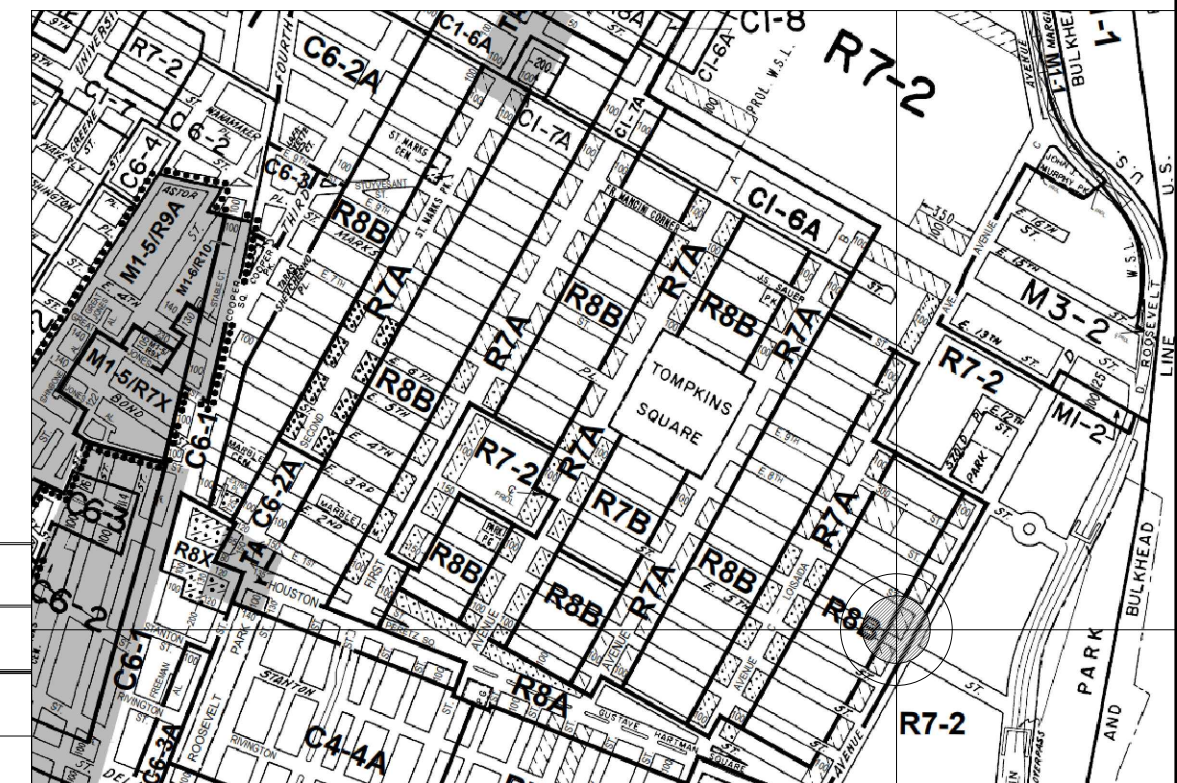
JOB FILED IN CONJUNCTION WITH PL APPLICATION

LEGEND:

	AREA OF WORK		OTHER AREAS
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BUILDING INFORMATION:
 BUILDING OCCUPANCY GROUP: A-2
 ZONING USE GROUP: 2
 CONSTRUCTION CLASSIFICATION: I-B: 2 HOURS PROTECTED-NON COMBUSTIBLE

INDEX OF DRAWINGS		LOT INFORMATION
SHEET	SHEET TITLE	
G-001.00	PLOT PLAN, GENERAL NOTES	
A-002.00	EXT'G FLOOR PLANS	Lot Area:13,395 sf
A-003.00	PROPOSE FLOOR PLANS	Lot Frontage:134' Lot Depth:93'
A-004.00	PROPOSE FLOOR PLANS	Year Built:2016
A-005.00	PROPOSE ELEVATIONS	Number of Buildings:1
E-006/7.0	ELECTRICAL NOTES	Number of Floors:12
E-008.00	PROPOSE C/LIGHTING PLANS	Gross Floor Area:87,930 sf (estimated)
M-009.00	MECHANICAL NOTES	
M-010.00	PROP 8TH FLOOR	



ZONING MAP SCALE: N.T.S.

Special Inspections	
Fire - Resistant Penetrations and Joints	BC 1704.27.
Mechanical System	BC 1704.16
Energy Code Compliance Inspections	BC 1704.16
Final	28-116.2.4.2 BC 110.5.
Interior lighting power	(IC2),(IC3)
Lighting Controls	(IC5),(IC5)

SPECIAL INSPECTIONS

SCOPE OF WORK
 APPLICATION FILE TO PROPOSE:
 - PROPOSE INTERIOR RENOVATION ON EXISTING COMMERCIAL SPACE.

OWNER:

No. Revision Date

JOSE L. PENA, P.E.

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To the best of my knowledge, belief and professional judgment, these plans and specifications are in compliance with the energy conservation code of New York City "NYCECC 2020."

It is a violation of the New York State Education Law - article 145/ subsection 7209 for any person, unless acting under the direction of a licensed professional engineer to alter any item on these drawings.

PROJECT:
 85 AVENUE D,
 MANHATTAN, NY 10009

Block:376
 Lot:7501
 Zoning:R8A/C1-5
 Map:12C

DRAWING TITLE:
 GENERAL NOTES
 PLOT PLAN
 SITE PLAN

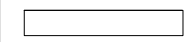
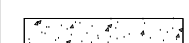
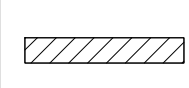
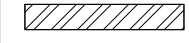


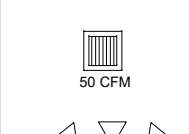



SEAL & SIGNATURE

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DRAWN BY: J-GOMEZ
CHK BY:
Drawing NO.

G-001.00
Sheet 1.01.10

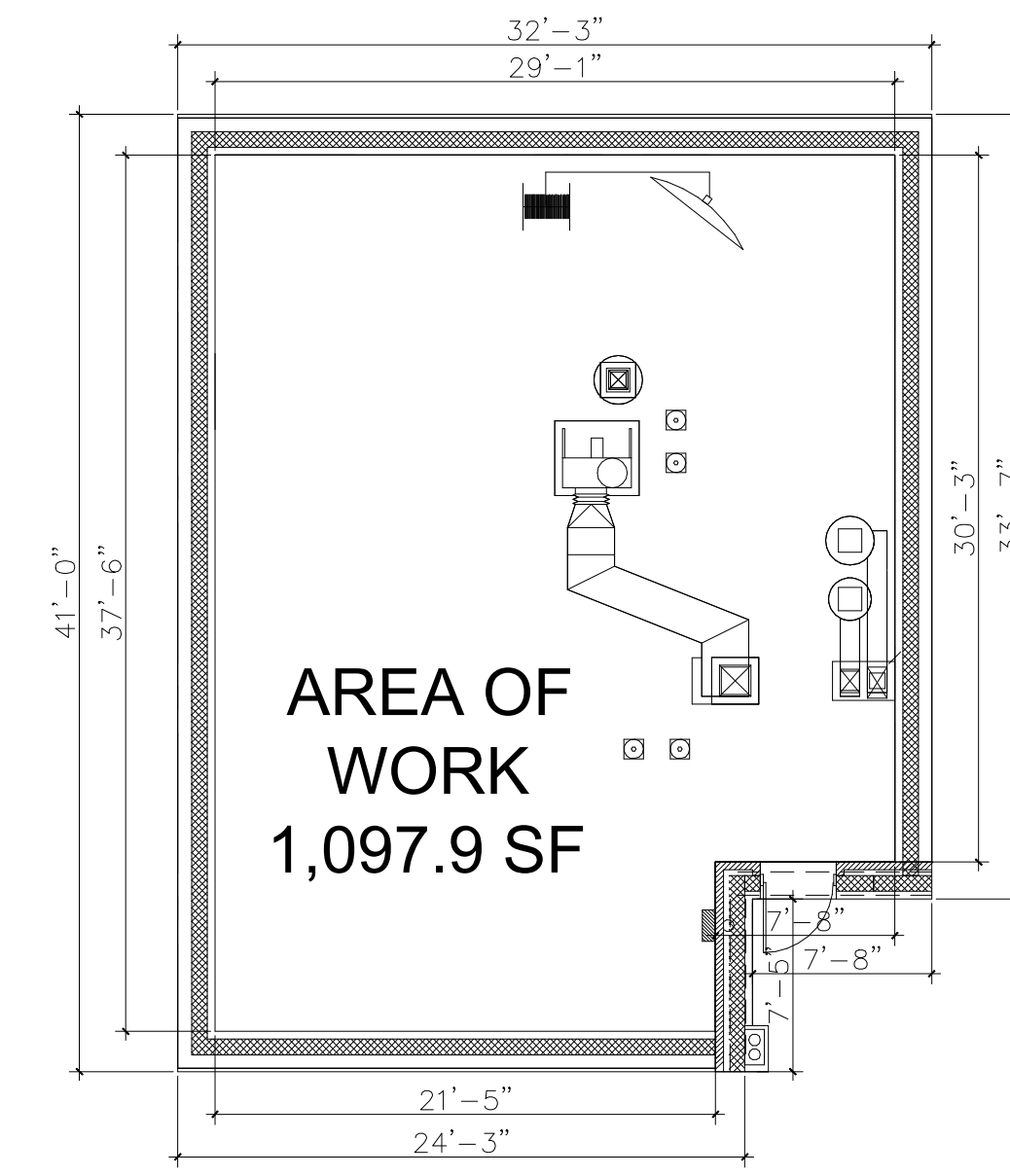
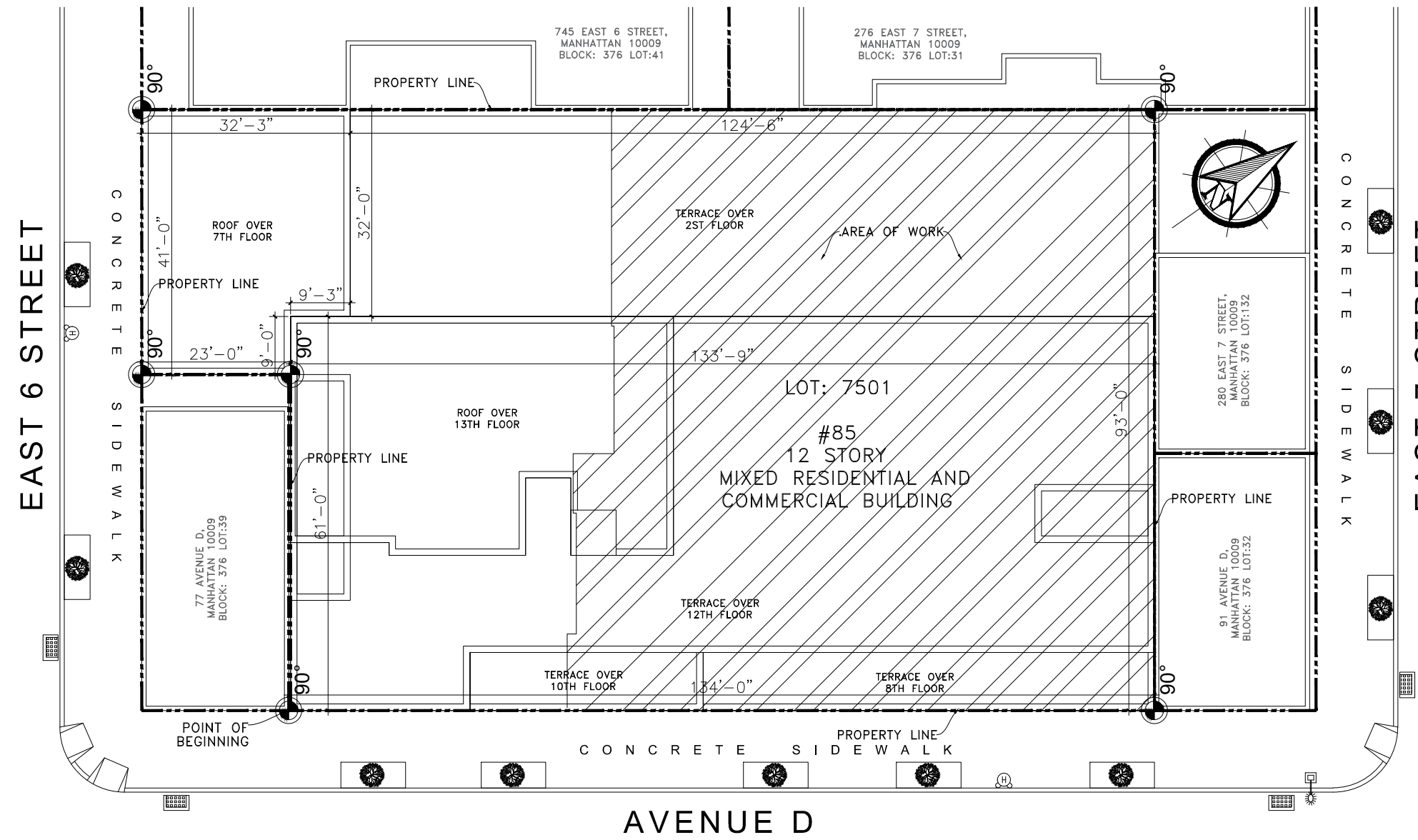
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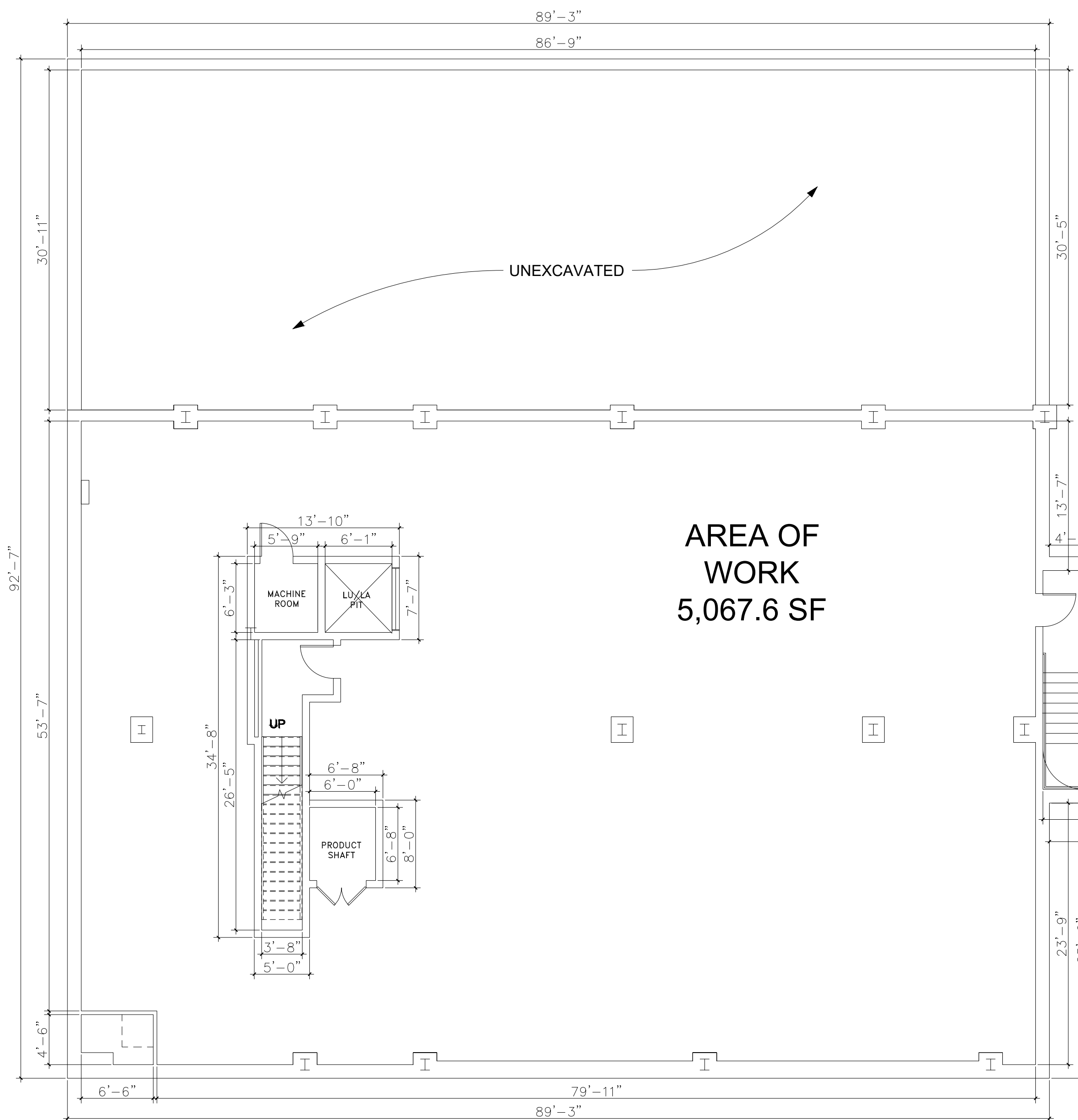
-  EXISTING WALL
-  EXISTING CONCRETE WALL
-  NEW WALL FULL HGT + 4" METSL STUD+ 5/8" GWB Interior Partition, 2HR. FIRERATED
-  NEW CEILING SOFFIT
-  REFERENT MARK TO SEE DOORS SCHEDULE
-  FLOOR DRAIN
-  SWITCH ACTIVATED EXHAUST FAN DUCTED TO ROOF (5 AIR CHANGES PER MINUTE)
-  PROP. SIGN/ EMERGENCY LIGHT
-  PROP. EMERGENCY LIGHTS
-  (E.P.) ELECTRICAL PANEL

DEMOLITION NOTES:

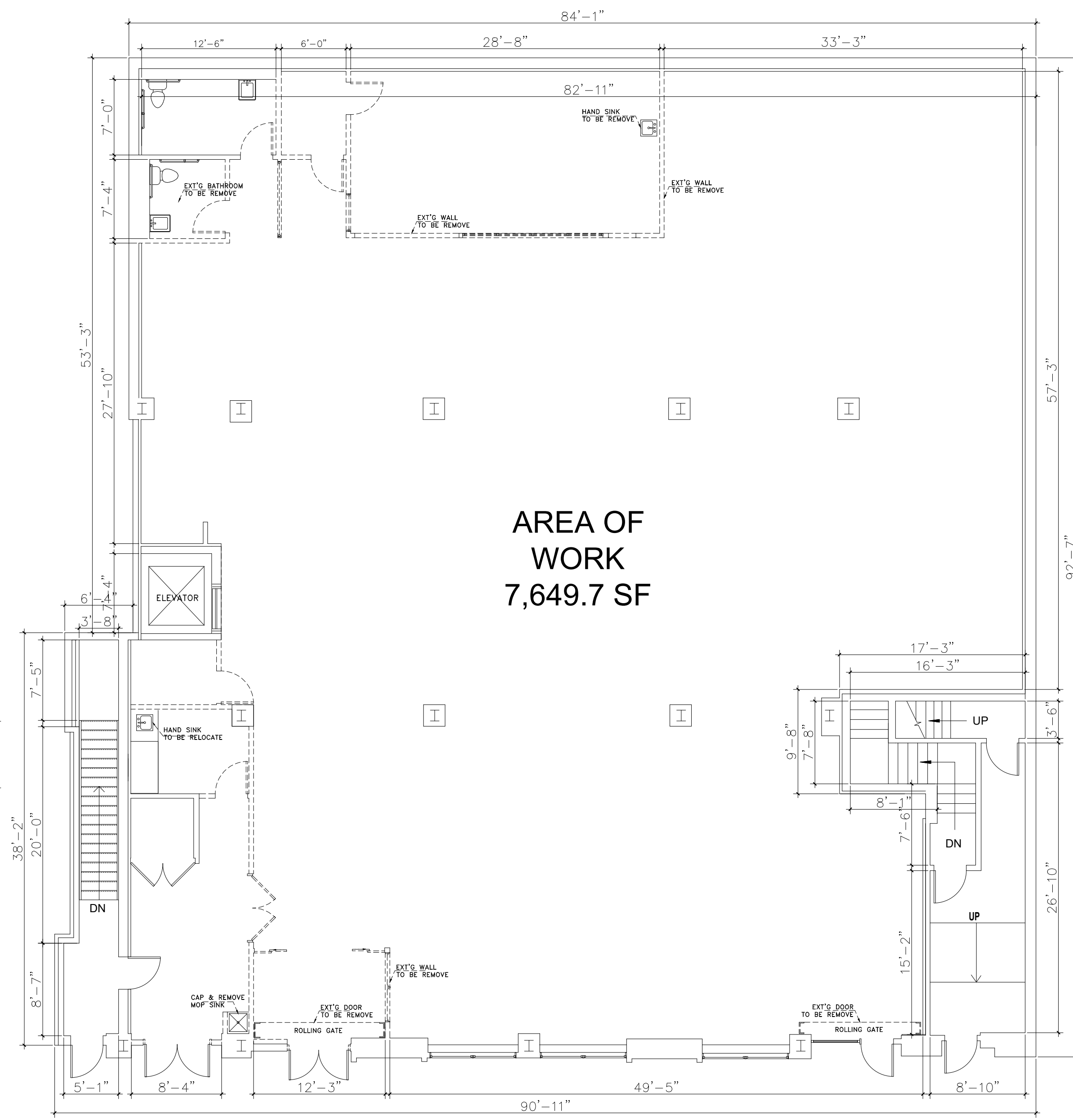
- 1- THE CONTRACTOR SHALL ASCERTAIN THAT THE AREA OF DEMOLITION HAS BEEN CLEARED OF ALL FURNITURE AND MOVABLE EQUIPMENT IN ORDER TO ALLOW FOR DEMOLITION TO PROCEED. THE CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY OF ANY SUCH CONDITIONS PREVENTING HIS PROCEEDING WITH THE DEMOLITION.
- 2- ALL ELECTRICAL HIGH OR LOW VOLTAGE CONDUITS, WIRES, INSTRUMENTS AND EQUIPMENT ADJACENT TO OR CONTAINED WITHIN PARTITIONS TO BE REMOVED BACK TO THE NEXT PANEL BOARD AND SHUTDOWN. NO CIRCUITS, WIRES OR EQUIPMENT SHALL REMAIN OPEN OR LIVE.
- 3- DEMOLITION INCLUDES COMPLETE REMOVAL AND DISPOSAL OF ALL ITEMS FROM SITE, EXCEPT ITEMS DESIGNATED TO BE REMOVED AND RETURNED TO THE OWNER FOR RE-USE. MATERIALS OR ITEMS SUCH AS DOORS AND FRAMES, GLASS AND LIGHTING FIXTURES DESIGNATED ON DRAWINGS TO REMAIN THE PROPERTY OF THE OWNER SHALL BE REMOVED WITH CARE AND STORED IN A LOCATION ON THE SITE TO BE DESIGNATED BY THE OWNER.
- 4- CONTRACTOR SHALL OBTAIN ALL PERMITS FOR ALL WORK, INCLUDING PERMITS FOR TRANSPORTING AND DISPOSAL OF DEBRIS AND OTHERS AS REQUIRED BY AUTHORITIES HAVING JURISDICTION INCLUDING ANY HAZARDOUS MATERIALS THAT MAY BE DISCOVERED.
- 5- CONTRACTOR IS REQUIRED TO NOTIFY OWNERS OF ANY AND ALL REQUIRED UTILITY SHUTDOWNS WITHIN THREE DAYS PRIOR TO TIME REQUIRED TO BE SHUTDOWN.
- 6- THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL NECESSARY SAFEGUARDS SUCH AS GUARDRAILS, BARRICADES, COVERING, ETC., TO PROTECT THE WORKMAN AND PUBLIC FROM ANY FORM OF BODILY INJURY.
- 7- PROVIDE AND MAINTAIN NECESSARY COVERINGS AND BOARDING TO PROTECT EXISTING WORK AND FINISHES TO REMAIN. UPON COMPLETION, REMOVE ALL PROTECTION AND CLEAN DOWN ALL SURFACES AND LEAVE ALL CONSTRUCTION IN A CLEAN, ORDERLY CONDITION. DUST SHALL BE KEPT AT A MINIMUM WITH PROTECTIVE COVERING REQUIRED OVER EXISTING FINISHES (CARPET, ETC.) TO BE PROVIDED.
- 8- THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY DAMAGE CAUSED BY IMPROPER PROTECTION AND SHALL MAKE ALL REPAIRS WITHOUT COST TO THE OWNER.
- 9- ALL REMOVALS SHALL BE NEATLY AND SAFELY DONE, CAUSING NO DAMAGE TO WORK TO REMAIN. DEBRIS AND RUBBISH SHALL NOT BE ALLOWED TO ACCUMULATE AND SHALL BE PROMPTLY DISPOSED OF LEGALLY.
- 10- MAINTAIN EXISTING UTILITIES INDICATED TO REMAIN, KEEP IN SERVICE AND PROTECT AGAINST DAMAGE DURING DEMOLITION OPERATIONS.



EXT'G 8TH FLOOR
SCALE: 1/8"=1'-0"



EXT'G CELLAR FL.
SCALE: 1/8"=1'-0"



EXT'G CELLAR FL.
SCALE: 1/8"=1'-0"

SCOPE OF WORK

APPLICATION FILE TO PROPOSE:
- PROPOSE INTERIOR RENOVATION ON EXISTING COMMERCIAL SPACE.

OWNER:

No.	Revision	Date

JOSE L. PENNA, P.E.

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PROJECT:
85 AVENUE D,
MANHATTAN, NY 10009

Block: 376
Lot: 7501
Zoning: R8A/C1-5
Map: 12C

DRAWING TITLE:
EXT'G CELLAR FL.
EXT'G FIRST FL.
EXT'G 8TH FL.

SEAL & SIGNATURE

DATE: 01/26/2023
PROJECT NO.
DRAWN BY J-GOMEZ
CHK BY:
Drawing NO.

A-002.00
Sheet 2 of 10

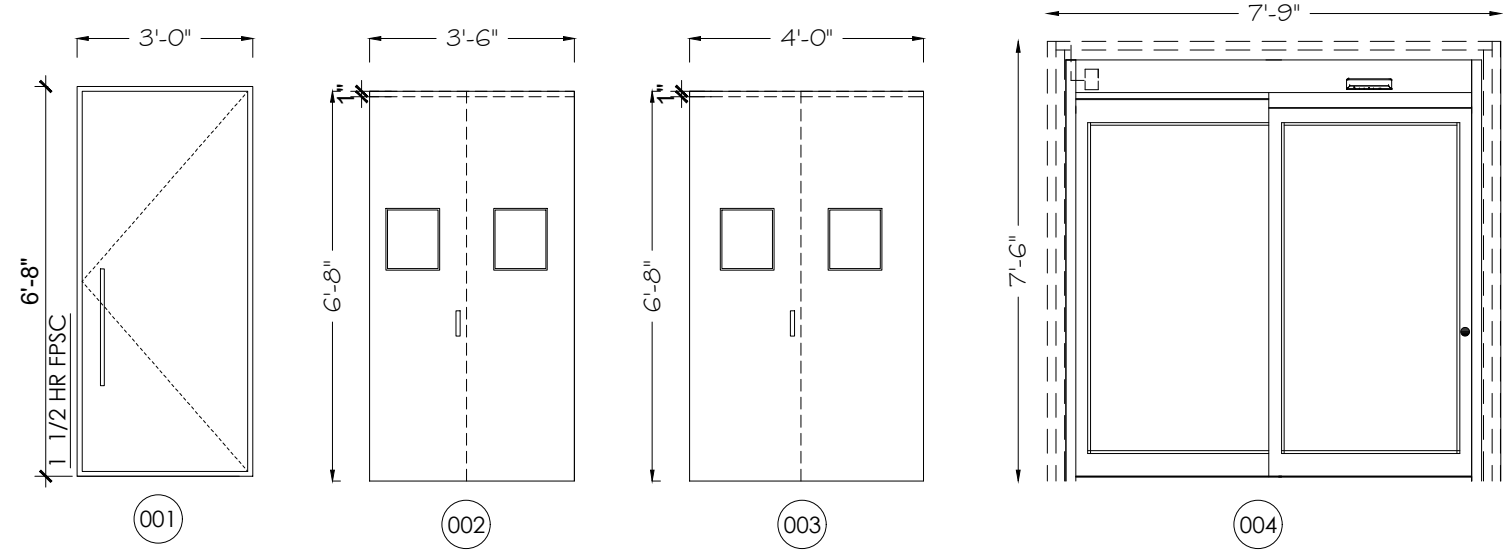
JOB NO.:

LEGEND:

- EXISTING WALL
- EXISTING CONCRETE WALL
- NEW WALL FULL HGT + 4" METSL STUD + 5/8" GWB Interior Partition, 2HR, FIRERATED
- NEW CEILING SOFFIT
- REFERENT MARK TO SEE DOORS SCHEDULE
- FLOOR DRAIN
- SWITCH ACTIVATED EXHAUST FAN DUCTED TO ROOF (5 AIR CHANGES PER MINUTE)
- PROP. SIGN/ EMERGENCY LIGHT
- PROP. EMERGENCY LIGHTS
- (E.P.) ELECTRICAL PANEL

DOOR SCHEDULE										
MARK	QUANTITY	LOCATION	SUPPLIER	WIDTH	HEIGHT	THICK	TYPE	MATERIAL	FINISH	REMARKS
001	2	BATHROOM	http://www.metlform.com/Commercial/5065/Com.Wood.Door.and.Frame.Club.01.03.02.html	2'-0"	6'-8"	2"	STD/PSFC	WOOD	PAINT	-
002	1	FRIP AREA	http://www.hffico.com/door.htm	3'-0"	6'-8"	2"	SOLID	METAL	PAINT	1 1/2 HR. PSFC
003	1	STORAGE AREA	http://www.hffico.com/door.htm	4'-0"	6'-8"	2"	SOLID	METAL	PAINT	1 1/2 HR. PSFC
004	1	MAIN ENTRANCE	http://www.outdoorinteriors.com/Commercial/Commercial/5065/Com.Wood.Door.and.Frame.Club.01.03.02.html	6'-0"	6'-8"	2"	STD/PSFC	METAL	PAINT	-

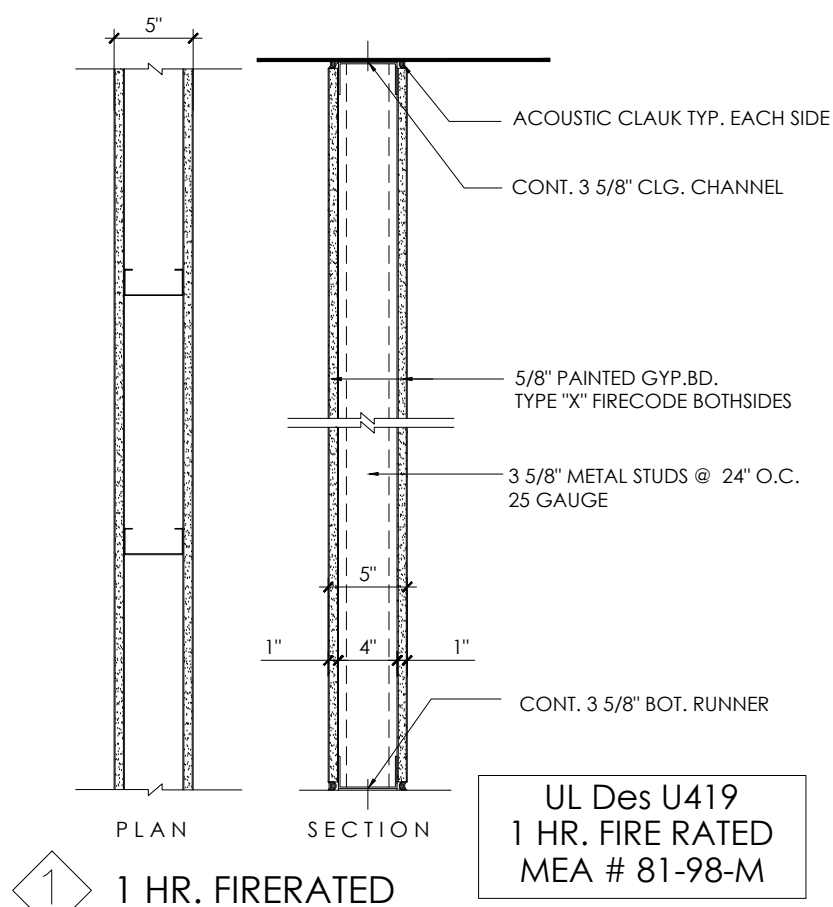
NOTES:
 1. ALL DOOR TO BE 4" NET OF HEADLINE UNLESS OTHERWISE SPECIFIED.
 2. ALL HARDWARE AND FINISHES TO BE SELECTED BY OWNER.
 3. CONTRA COLOR TO CUT BOTTOM OF DOORS AS REQUIRED IF SPACE SUPPLIED BY MANUFACTURER IS INSUFFICIENT.
 4. ACTUAL DOOR AND FRAME FINISHES TO BE SELECTED BY OWNER.



PARTITION TYPES

PROP. INTERIOR WALL (UL# U419)
 ONE (1) 5/8" GYP.BD. TYPE 'X' FIRE CODE BOTH SIDES 1 HR. FIRE RATED
 56.3TC - SSA # 43-77-SM 5/8" CEMENT BOARD
 3 5/8" METAL STUD @ 16" O.C.
 R13/R10 BATT INSULATION

MOLD RESISTANCE RATING OF 10 GYPSUM BOARD PANELS WHERE REQUIRED. (***) WATERPROOFING WHERE REQUIRED AT SHOWER AREAS.



WALL TYPE DETAILS
 SCALE: N.T.S.

(B)

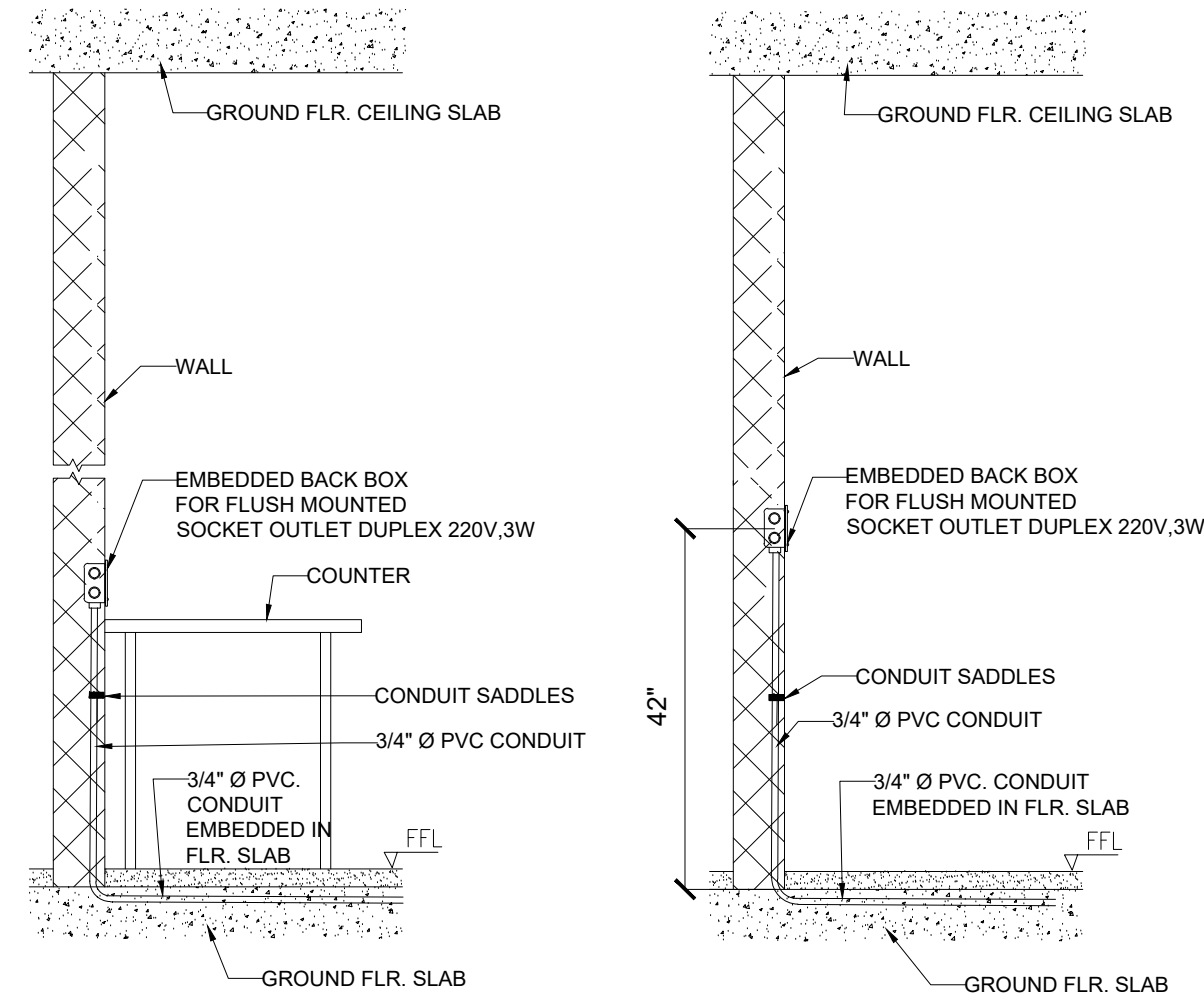
HEATED DISPLAY SYSTEMS (ALTO SHAAM)

MODEL NO.:	ED2SYS-48/P-BLK	WEIGHT.:	550 LBR	VOLTAGE	208/240	PHASE.:	1	AMPS.:	12
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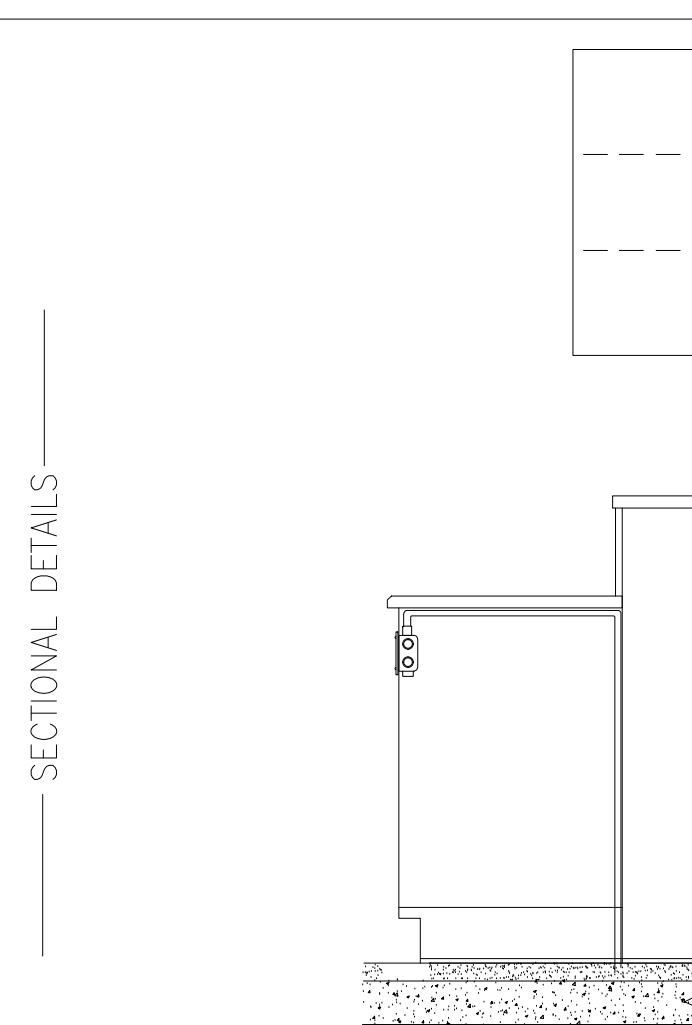
(C)

ROTISSERIE OVENS (EQUIPEX)

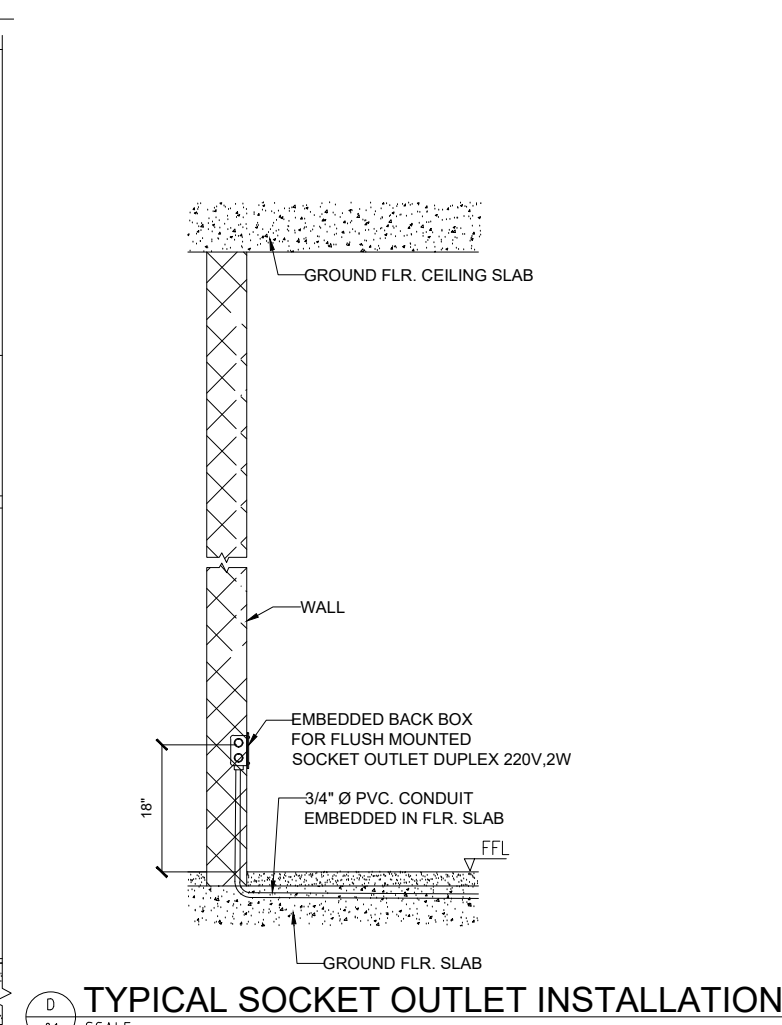
MODEL NO.:	RBE-12	WEIGHT.:	190 LBR	VOLTAGE	208/240	PHASE.:	3	AMPS.:	9/11
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TYPICAL SOCKET OUTLET INSTALLATION ABOVE COUNTER
 SCALE: N.T.S.



TYPICAL SOCKET OUTLET INSTALLATION DETAIL OVER BENCH OR COUNTER
 SCALE: N.T.S.



TYPICAL SOCKET OUTLET INSTALLATION
 SCALE: N.T.S.

Shenzhen Yuchen Lighting Technology Co., Ltd
 HZ Lighting Technology (HK) Co., Ltd.
 701 F B. Liuhecheng, Pingshan District, Shenzhen, China
 Tel : 86-13728007691 Website : www.hz-ledtec.com

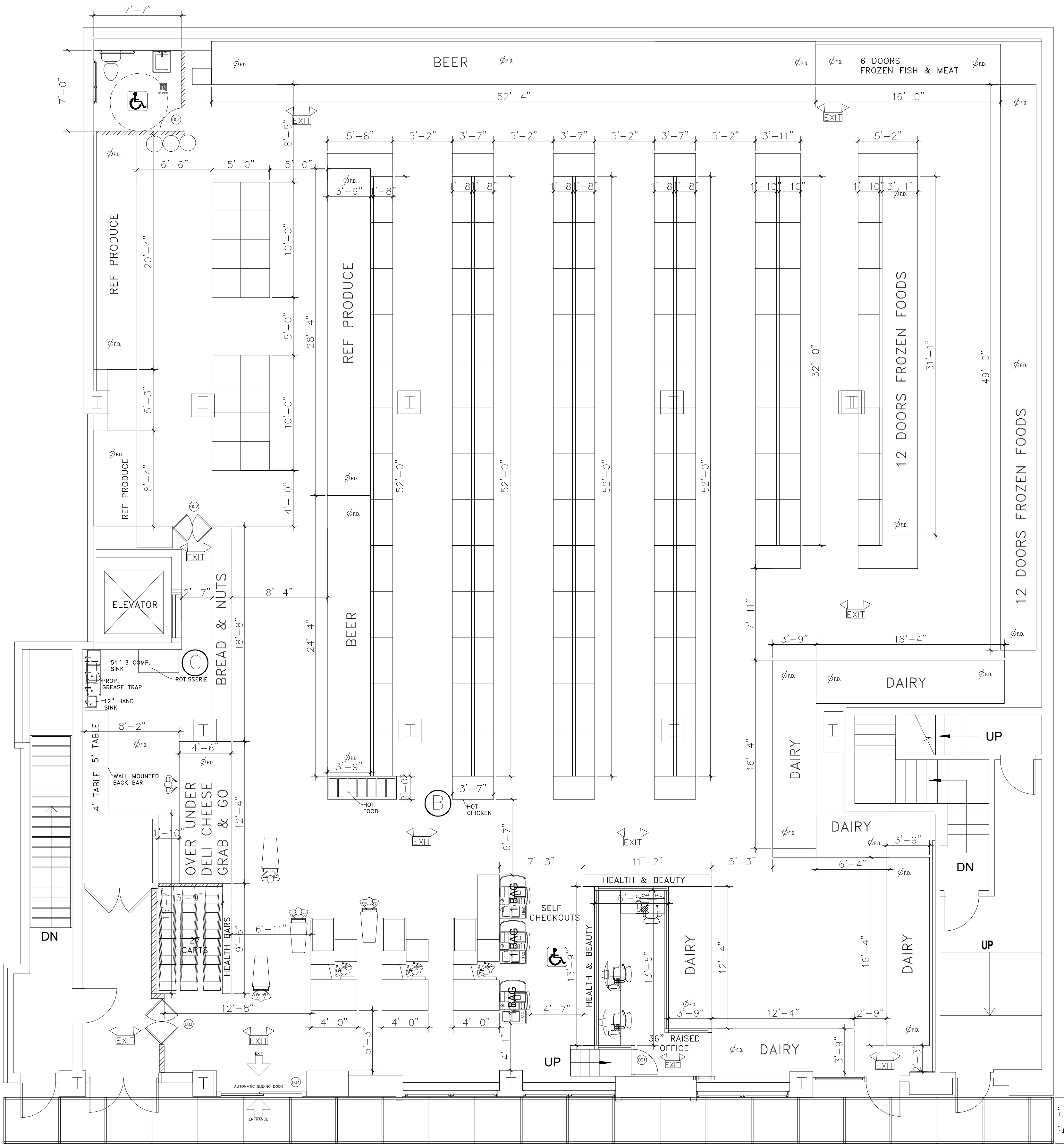
A

Features: Housing: Aluminum
 Diffuser: Milky PC
 Installation: surface mounted or hanging
 Support: seamless continuously running
 Wattage: 40W
 Lumens: 5300lm
 LED: SM02835
 Input Voltage: 120-277VAC
 Color temperature: 4000K
 Lifetime: 50,000hours
 LED Driver: ETL listed
 Surface mounted screws 1pc mini connector for seamless continuously running
 2pcs 1M suspending cable

183
INCLUDING 10 EXTRA

B

C



PROP. CELLAR FL.

SCALE: 3/16" = 1'-0"

SCOPE OF WORK

APPLICATION FILE TO PROPOSE:
 - PROPOSE INTERIOR RENOVATION ON EXISTING COMMERCIAL SPACE.

OWNER:

No.	Revision	Date

JOSE L. PENNA, P.E.

441 MAXWELL STREET
 WEST HEMPSTEAD, NY 11552
 TEL.: 917-456-2372
 JOSE@PENAFIG.ORG

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PROJECT:
 85 AVENUE D,
 MANHATTAN, NY 10009

Block: 376
 Lot: 7501
 Zoning: R8A/C1-5
 Map: 12C

DRAWING TITLE:
 PROP. FIRST FL.

SEAL & SIGNATURE

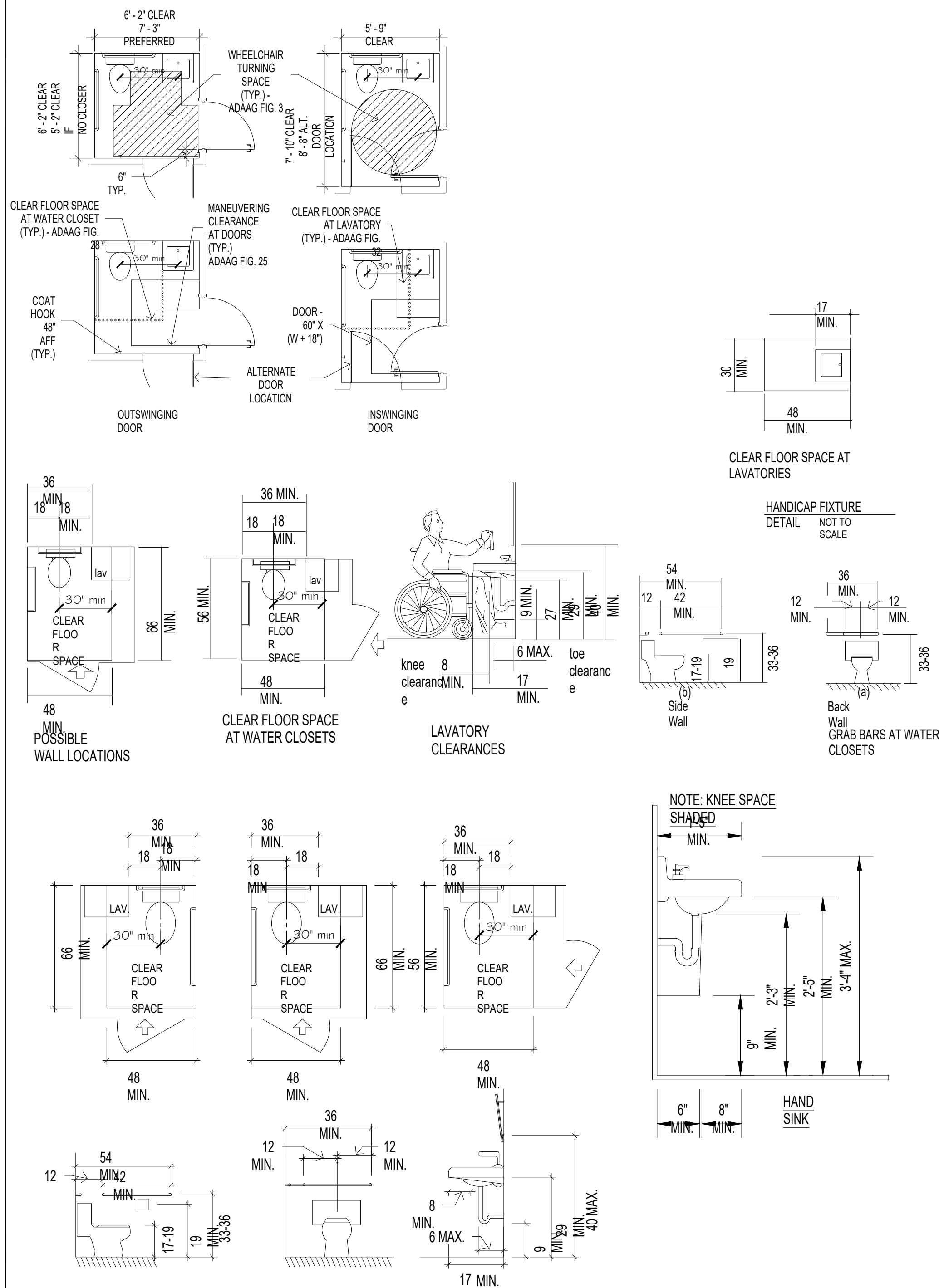
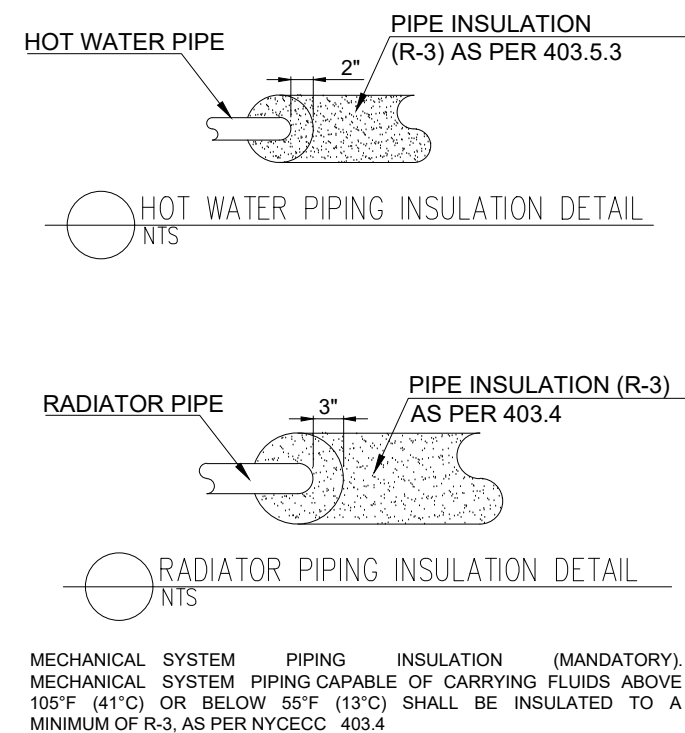
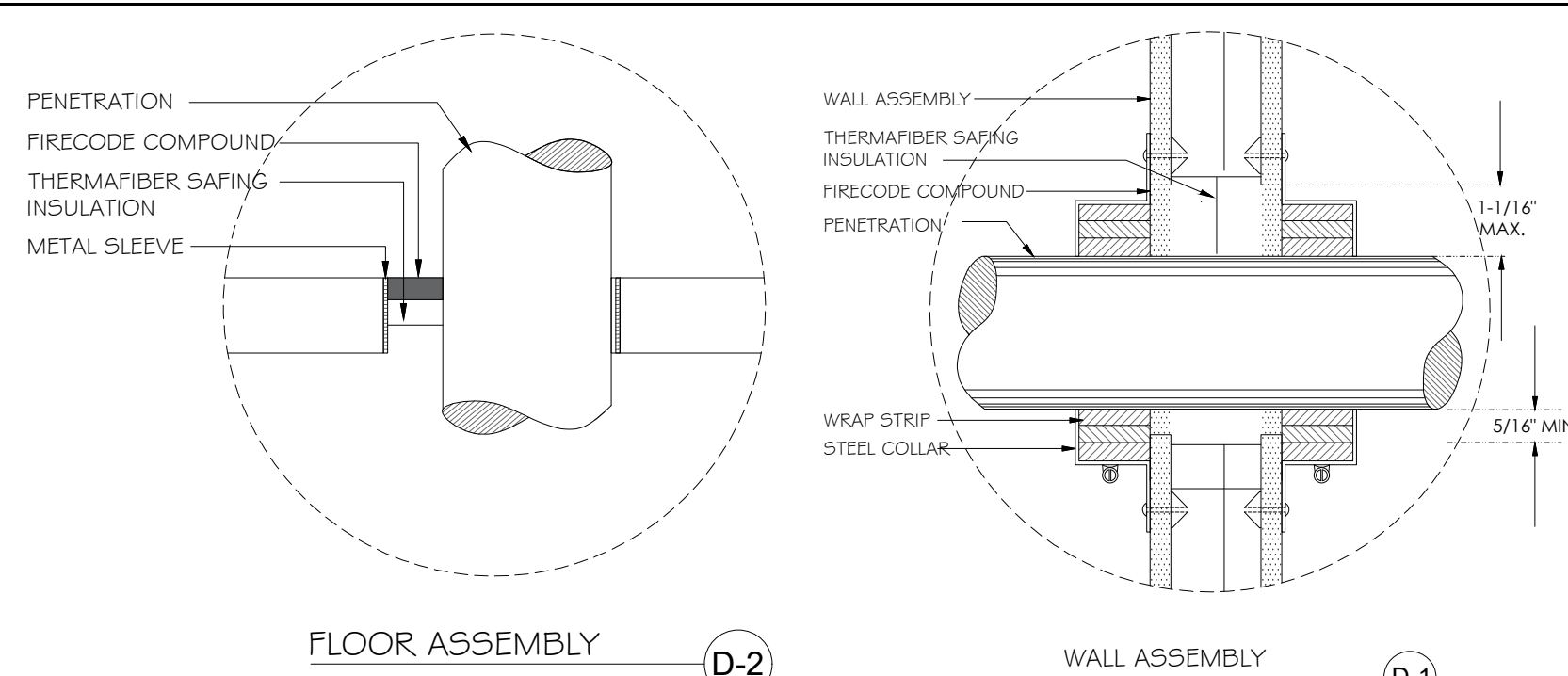
DATE: 01/26/2023
 PROJECT NO.
 DRAWN BY: J-GOMEZ
 CHK BY:
 Drawing NO.

A-003.00
 Sheet 2 of 10

JOB NO.:

LEGEND:

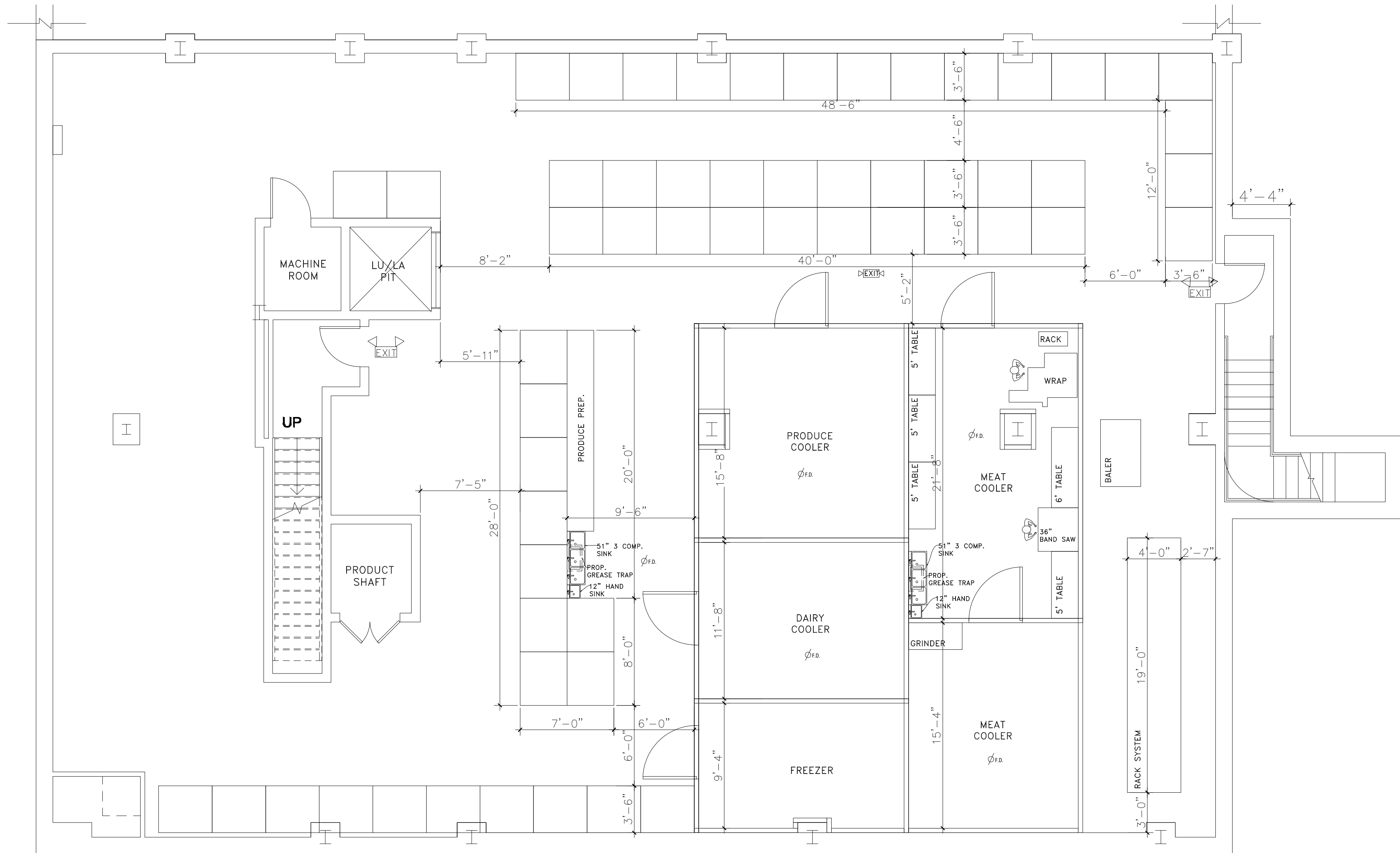
- EXISTING WALL
- EXISTING CONCRETE WALL
- NEW WALL FULL HGT + 4" METSL STUD+ 5/8" GWB Interior Partition, 2HR. FIRERATED
- NEW CEILING SOFFIT
- REFERENT MARK TO SEE DOORS SCHEDULE
- FLOOR DRAIN
- SWITCH ACTIVATED EXHAUST FAN DUCTED TO ROOF (5 AIR CHANGES PER MINUTE)
- PROP. SIGN/ EMERGENCY LIGHT
- PROP. EMERGENCY LIGHTS
- (E.P.) ELECTRICAL PANEL



ACCESSIBILITY NOTES

1. ALL DETAILS AND GENERAL NOTES PERTAINS TO HANDICAPPED ADAPTABILITY SHALL SUPERSEDE OTHER DETAILS AND NOTES HEREIN.
2. ALL COMPONENTS OF SPACES REQUIRED TO COMPLY WITH HANDICAPPED ADAPTABILITY NOT COVERED BY THE SCOPE OF THESE DOCUMENTS SHALL ALSO COMPLY WITH THE REQUIREMENTS OF RS 4-6 THIS INCLUDES (BUT IS NOT LIMITED TO) INTERIOR FINISHES; CONTROLS FOR BATHROOM, KITCHEN AND HVAC APPLIANCES AND FOR LIFTS AND ELEVATORS; AND HARDWARE FOR DOORS, WINDOWS AND STORAGE AREAS.
3. DOORWAYS INTENDED FOR USER PASSAGE SHALL HAVE A MINIMUM CLEAR OPENING OF 32 IN. WITH THE DOOR OPEN 90 DEGREES, MEASURED BETWEEN THE FACE OF THE DOOR AND THE STOP.
4. THE DOOR AND BUCK AT THE BATHROOMS SHALL BE DESIGNED AND CONSTRUCTED SO THAT REMOUNTING THE HINGES IS THE ONLY CHANGED REQUIRED TO SWING THE DOOR OUT.
5. THRESHOLDS AT DOORWAYS SHALL NOT EXCEED 3/4 IN. IN HEIGHT FOR EXTERIOR RESIDENTIAL SLIDING DOORS OR 1/2 IN. FOR OTHER TYPES OF DOORS. RAISED THRESHOLDS AND FLOOR LEVEL CHANGES AT ACCESSIBLE DOORWAYS SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1 : 2.
6. IN DWELLING UNITS THE HEIGHT OF THE WATER CLOSETS SHALL BE AT LEAST 15 IN. AND NO MORE THAN 19 IN. MEASURED TO THE TOP OF THE TOILET SEAT.
7. STRUCTURAL REINFORCEMENT OR OTHER PROVISIONS SHALL BE MADE THAT WILL ALLOW INSTALLATION OF GRAB BARS IN THE LOCATIONS SHOWN IN THE DETAILS.
8. IF A CABINET IS PROVIDED UNDER THE LAVATORY, IT SHALL BE EASILY REMOVABLE FOR A WIDTH OF 30 IN. FINISHED FLOORING SHALL EXTEND UNDER THIS AREA TO THE WALL.
9. THE SINK AND SURROUNDING COUNTER IN ADAPTABLE DWELLING UNITS SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS: A. THE SINK AND SURROUNDING COUNTER SHALL BE ADJUSTABLE OR REPLACEABLE AS A UNIT AT VARIABLE HEIGHTS BETWEEN 28 IN. AND 36 IN. MEASURED FROM THE FINISHED FLOOR TO THE TOP OF THE COUNTER SURFACE OR SINK RIM, OR SHALL BE MOUNTED AT A FIXED HEIGHT NO GREATER THAN 34 IN., MEASURED FROM FINISHED FLOOR TO THE TOP OF THE COUNTER SURFACE OR SINK RIM. B. WHERE SINKS ARE INSTALLED TO BE ADJUSTABLE IN HEIGHT, ROUGH IN PLUMBING SHALL BE LOCATED TO ACCEPT CONNECTIONS OF SUPPLY AND DRAIN PIPES FOR SINKS MOUNTED AT A HEIGHT OF 28 C. BASE CABINETS, IF PROVIDED, SHALL BE REMOVABLE UNDER THE FULL 30 IN. MINIMUM FRONTAGE OF THE SINK AND SURROUNDING COUNTER. THE FINISHED FLOORING SHALL EXTEND UNDER THE COUNTER TO THE WALL. D. COUNTER THICKNESS AND SUPPORTING STRUCTURE SHALL BE 2 IN. MAXIMUM OVER THE REQUIRED CLEAR SPACE. E. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER SINKS. HOT WATER PIPES AND DRAIN PIPES UNDER SINKS SHALL BE INSULATED OR OTHERWISE COVERED.
10. OVERHEAD KITCHEN CABINETS (EXCEPT OVER STOVES, COOKTOPS, & PASS THROUGH) SHALL BE INSTALLED SO AS TO BE EASILY LOWERED TO A HEIGHT OF 48 IN. FROM FINISHED FLOOR TO TOP OF LOWEST SHELF.
11. IF A MEDICINE CABINET IS PROVIDED ABOVE THE LAVATORY, THEN THE BOTTOM OF THE MEDICINE CABINET SHALL BE LOCATED WITH A USABLE SHELF NO HIGHER THAN 44 IN. ABOVE THE FLOOR.
12. AN IN TUB SEAT OR A SEAT AT THE HEAD OF THE TUB SHALL BE PROVIDED IN BATHTUBS. SEATS SHALL BE MOUNTED SECURELY AND SHALL NOT SLIP DURING USE.
13. A SEAT SHALL BE PROVIDED IN SHOWER STALLS. THE SEAT SHALL BE MOUNTED 17 IN. TO 19 IN. FROM THE BATHROOM FLOOR AND SHALL EXTEND THE FULL DEPTH OF THE STALL. THE SEAT SHALL BE ON THE WALL OPPOSITE THE CONTROLS.

14. A SHOWER SPRAY UNIT SHALL BE PROVIDED WITH A HOSE AT LEAST 60 IN. LONG THAT CAN BE USED AS A FIXED SHOWER HEAD OR AS A HAND HELD SHOWER, IF AN ADJUSTABLE HEIGHT SHOWER HEAD MOUNTED ON A VERTICAL BAR IS USED. THE BAR SHALL BE INSTALLED SO AS NOT TO OBSTRUCT THE USE OF GRAB BARS.
15. THE 30 IN. KITCHEN WORK SERVICE SHOWN ON THE PLANS SHALL PROVIDE A WORK SURFACE THAT COMPLIES WITH THE FOLLOWING REQUIREMENTS: A. THE COUNTER SHALL BE ADJUSTABLE OR REPLACEABLE AS A UNIT AS VARIABLE HEIGHTS BETWEEN 28 IN. AND 36 IN., MEASURED FROM THE FLOOR TO THE TOP COUNTER SURFACE, OR SHALL BE MOUNTED AT A FIXED HEIGHT NO GREATER THAN 34 IN. MEASURED FROM THE FLOOR TO THE TOP COUNTER SURFACE. B. BASE CABINETS IF PROVIDED SHALL BE REMOVABLE UNDER THE FULL 30 IN. MINIMUM FRONTAGE OF THE COUNTER. THE FINISHED FLOOR SHALL EXTEND UNDER THE COUNTER TO THE WALL. C. COUNTER THICKNESS AND SUPPORTING STRUCTURE SHALL BE 2 IN. MAXIMUM OVER THE REQUIRED CLEAR AREA. D. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER SUCH COUNTERS.
16. CLOTHES RODS SHALL BE A MAXIMUM OF 54 IN. FROM THE FLOOR.
17. CHANGES IN GROUND LEVEL UP TO 1/4 IN. MAY BE VERTICAL AND WITHOUT EDGE TREATMENT. CHANGES IN LEVEL BETWEEN 1/4 IN. AND 1/2 IN. SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1 : 2.
18. DOORS TO HAZARDOUS AREAS SHALL BE MADE IDENTIFIABLE TO THE TOUCH BY A TEXTURED SURFACE ON THE DOOR HANDLE, KNOB, PULL OR OTHER OPERATING HARDWARE. THIS TEXTURED SURFACE MAY BE MADE BY KNURLING OR ROUGHENING OR BY A MATERIAL APPLIED TO THE CONTACT SURFACE (HAZARDOUS AREAS INCLUDE LOADING PLATFORMS, BOILER ROOMS, ETC.)
19. DETECTABLE WARNING TEXTURES ON WALKING SURFACES AS SHOWN ON PLANS SHALL CONSIST OF EXPOSED AGGREGATE CONCRETE, CUSHIONED SURFACES MADE OF RUBBER OR PLASTIC, RAISED STRIPS, OR GROOVES. TEXTURES SHALL CONTRAST WITH THAT OF THE SURROUNDING SURFACE. RAISED STRIPS OR GROOVES SHALL COMPLY WITH RS 4-6. GROOVES MAY BE USED INDOORS ONLY.
20. AUDIBLE EMERGENCY ALARMS SHALL PRODUCE A SOUND THAT EXCEED THE PREVAILING EQUIVALENT SOUND LEVEL IN THE ROOM OR SPACE BY AT LEAST 15 DECIBELS OR EXCEEDS ANY MAXIMUM SOUND LEVEL WITH A DURATION OF 30 SECONDS BY 5 DECIBELS, WHICHEVER IS LOUDER. SOUND LEVELS FOR ALARM SIGNALS SHALL NOT EXCEED 120 DECIBELS.
21. THE STRUCTURAL STRENGTH OF GRAB BARS, TUB AND SHOWER SEATS, FASTENERS, AND MOUNTING DEVICES SHALL MEET THE FOLLOWING SPECIFICATIONS: A. BENDING STRESS IN A GRAB BAR OR SEAT INDUCED BY THE MAXIMUM BENDING MOMENT FROM THE APPLICATION OF 250 LBF SHALL BE LESS THAN THE ALLOWABLE STRESS FOR THE MATERIAL OF THE GRAB BAR OR SEAT IF THE CONNECTION BETWEEN THE GRAB BAR OR SEAT. B. SHEAR STRESS INDUCED IN A GRAB BAR OR SEAT BY THE APPLICATION OF 250 LBF (1112N) SHALL BE LESS THAN THE ALLOWABLE SHEAR STRESS FOR THE MATERIAL OF THE GRAB BAR OR SEAT IF THE CONNECTION BETWEEN THE GRAB BAR OR SEAT AND ITS MOUNTING BRACKET OR OTHER SUPPORT IS CONSIDERED TO BE FULLY RESTRAINED, THEN DIRECT AND TORSIONAL SHEAR STRESSES SHALL BE TOLLED FOR FOR THE COMBINED SHEAR STRESS, WHICH SHALL NOT EXCEED THE ALLOWABLE SHEAR STRESS. C. SHEAR FORCE INDUCED IN A FASTENER OR MOUNTING DEVICE FROM THE APPLICATION OF 250 LBF (1112N) SHALL BE LESS THAN THE ALLOWABLE LATERAL LOAD OF EITHER THE FASTENER OR MOUNTING DEVICE OR THE SUPPORTING STRUCTURE, WHICHEVER IS THE SMALLER ALLOWABLE LOAD. D. TENSILE FORCE INDUCED IN A FASTENER BY A DIRECT TENSION FORCE OF 250 LBF (1112N) PLUS THE MAXIMUM OMENT FROM THE APPLICATION OF 250 LBF (1112N) SHALL BE LESS THAN THE ALLOWABLE WITHDRAWAL LOAD BETWEEN THE FASTENER AND THE SUPPORTING STRUCTURE. E. GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS.
22. DWELLING UNITS OF 1ST. FLOOR SHALL BE FULLY HANDICAP ADAPTABLE AS PER OCA LAW 58, OF 1987. ALL CONSTRUCTION EXPRESSLY INDICATED OR IMPLIED EREIN, SHALL COMPLY IN FULL TO THE PROVISIONS OF NYC LOCA LAW 58/87, AND THE ACCOMPANYING REFERENCE STANDARD 4-6, FOR HANDICAPPED ADAPTABILITY.



SCOPE OF WORK

APPLICATION FILE TO PROPOSE:

PROPOSE INTERIOR RENOVATION ON EXISTING COMMERCIAL SPACE.

OWNER:

No. Revision Date

JOSE L. PENA, P.E.

441 MAXWELL STREET
WEST HEMPSTEAD, NY 11552
TEL.: 917-456-2372
JOSE@PENAFIG.ORG

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It is a violation of the New York State Education Law - article 145/ subsection 2209 for any person, unless acting under the direction of a licensed professional engineer to alter any item on these drawings.

PROJECT :
85 AVENUE D,
MANHATTAN, NY 10009

Block: 376
Lot: 7501
Zoning: R8A/C1-5
Map: 12C

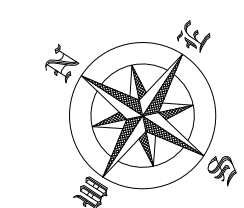
DRAWING TITLE:
PROP. CELLAR FL.

SEAL & SIGNATURE

DATE: 01/26/2023
PROJECT NO.
DRAWN BY J-GOMEZ
CHK BY:
Drawing NO.

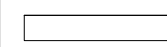
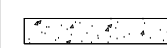
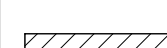
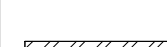
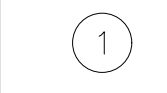


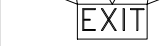


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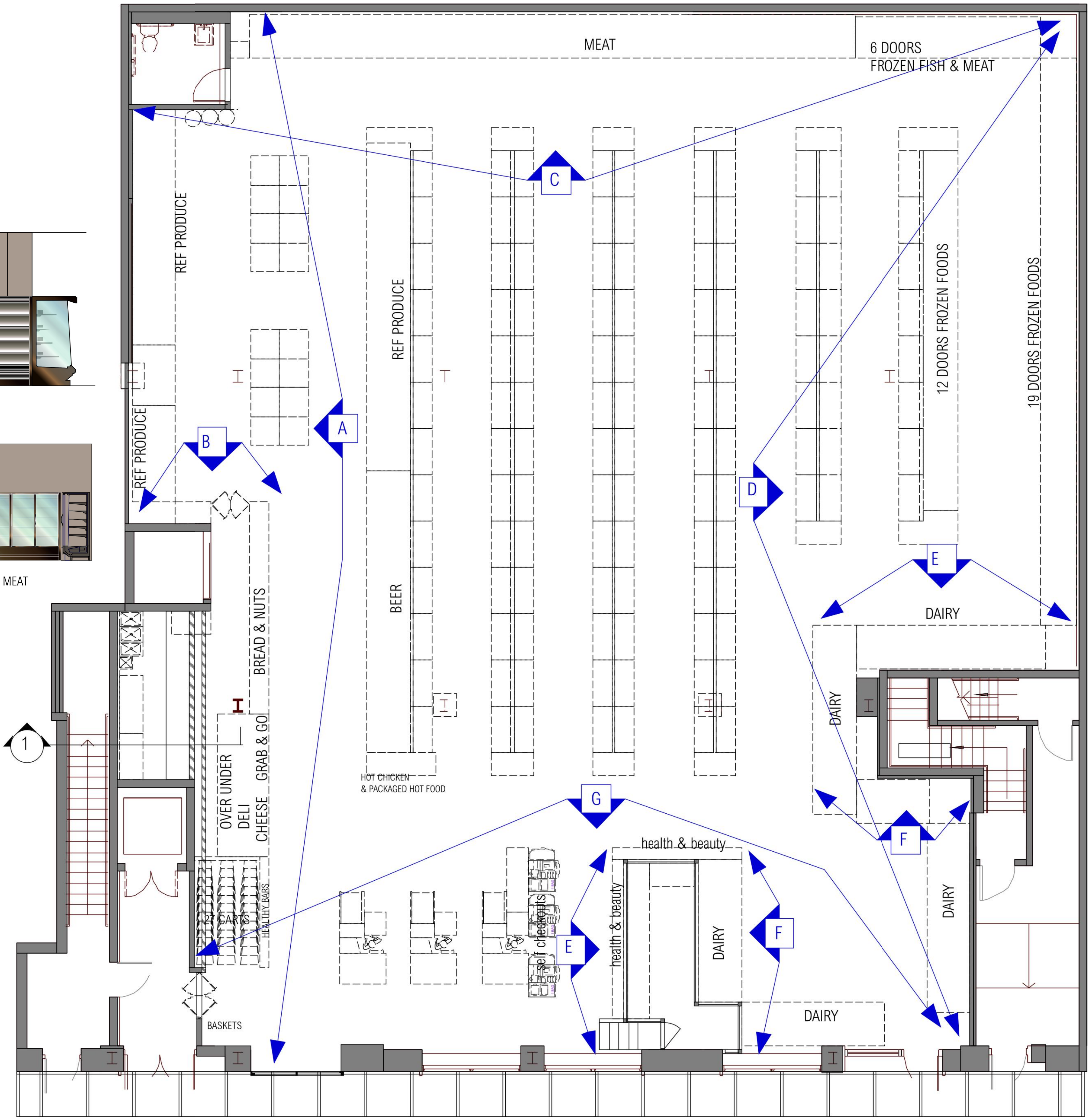
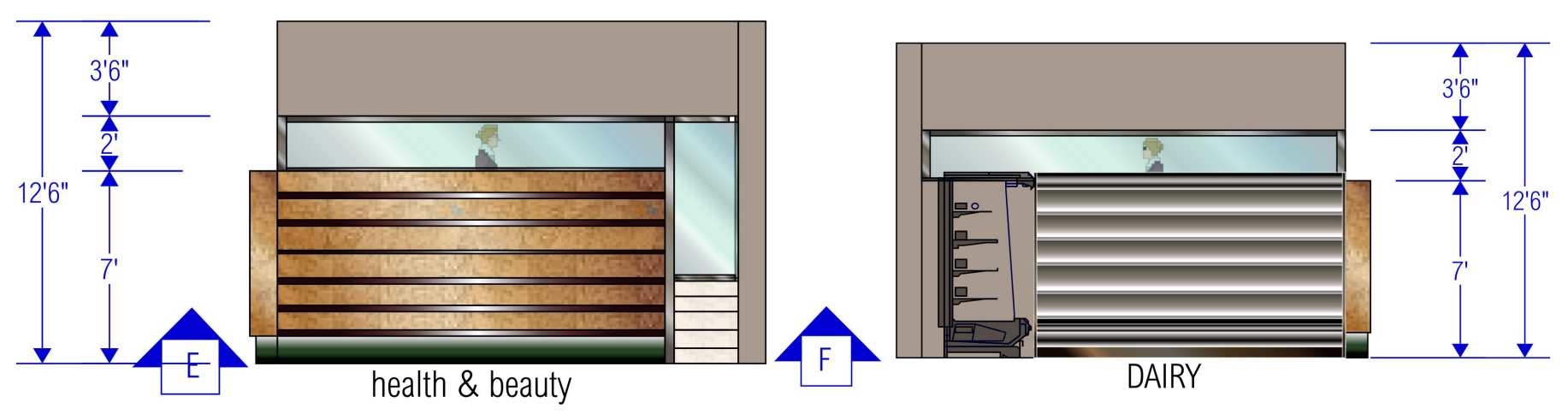
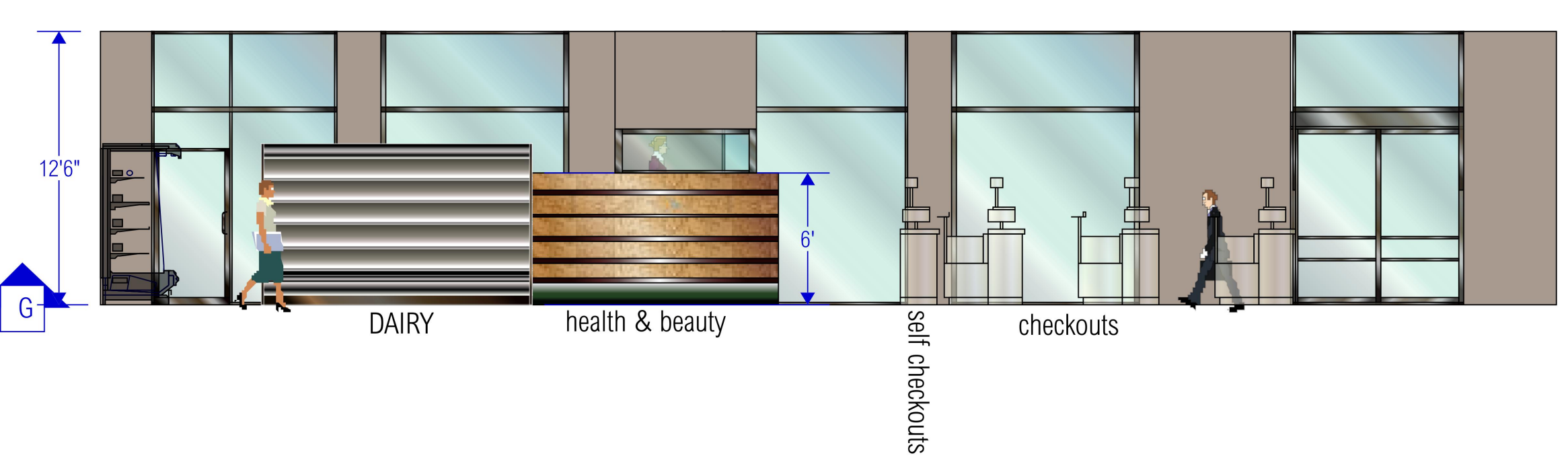
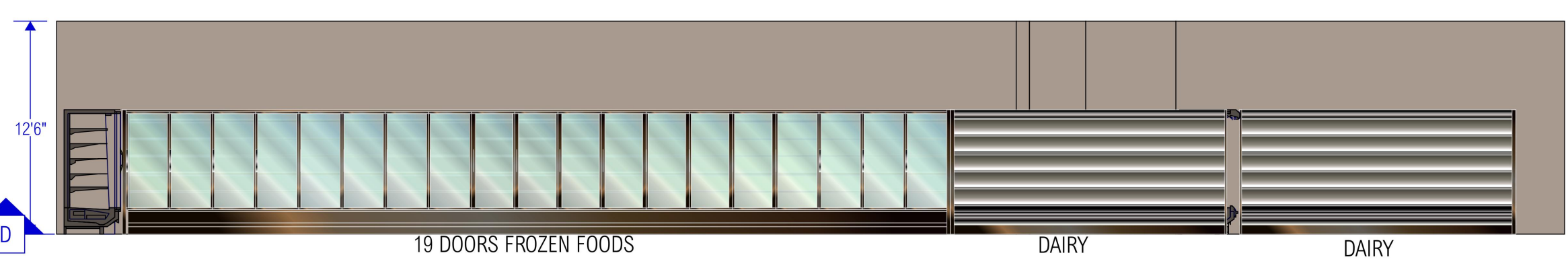
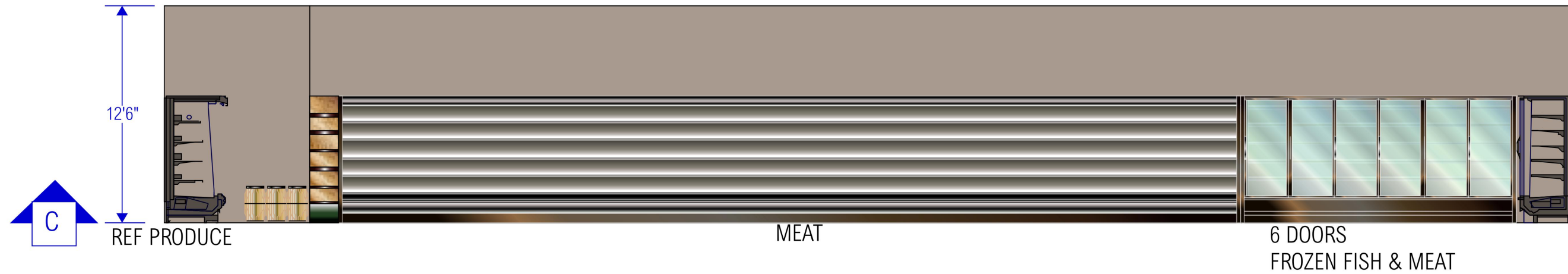
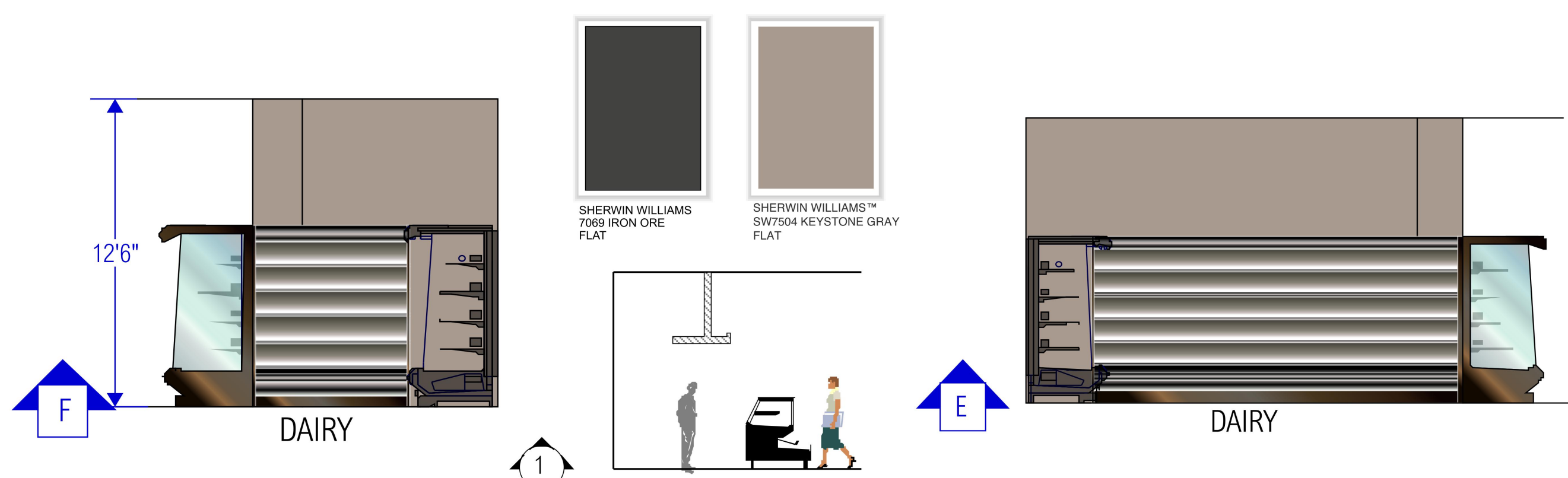
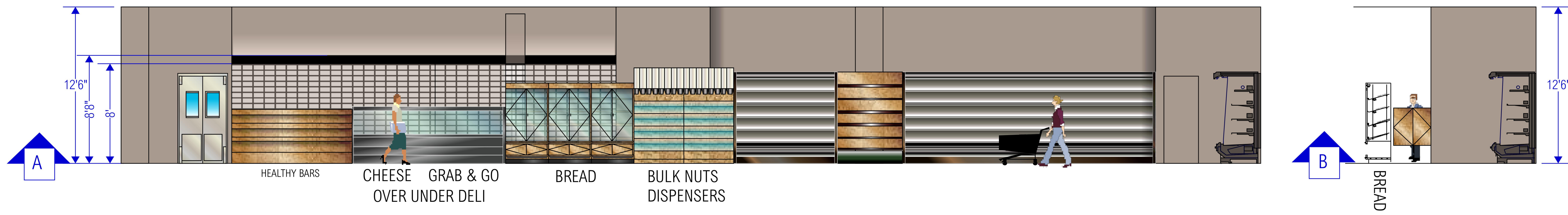
JOB NO.:



PROP. CELLAR FL.
SCALE: 3/16" = 1'-0"

LEGEND:

-  EXISTING WALL
-  EXISTING CONCRETE WALL
-  NEW WALL FULL HGT + 4" METSL STUD+ 5/8" GWB Interior Partition. 2HR. FIRERATED
-  NEW CEILING SOFFIT
-  REFERENT MARK TO SEE DOORS SCHEDULE
-  FLOOR DRAIN
-  SWITCH ACTIVATED EXHAUST FAN DUCTED TO ROOF (5 AIR CHANGES PER MINUTE)
-  PROP. SIGN/ EMERGENCY LIGHT
-  PROP. EMERGENCY LIGHTS
-  (E.P.) ELECTRICAL PANEL



SCOPE OF WORK

APPLICATION FILE TO PROPOSE:
 - PROPOSE INTERIOR RENOVATION ON EXISTING COMMERCIAL SPACE.

OWNER:

No.	Revision	Date

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PROJECT:
 85 AVENUE D,
 MANHATTAN, NY 10009

Block: 376
 Lot: 7501
 Zoning: R8A/C1-5
 Map: 12C

DRAWING TITLE:
 ELEVATIONS.

SEAL & SIGNATURE

DATE: 01/26/2023
 PROJECT NO.
 DRAWN BY J-GOMEZ
 CHK By:
 Drawing NO.

A-005.00
Sheet 4 of 10

JOB NO.:

BASIC ELECTRICAL REQUIREMENTS:

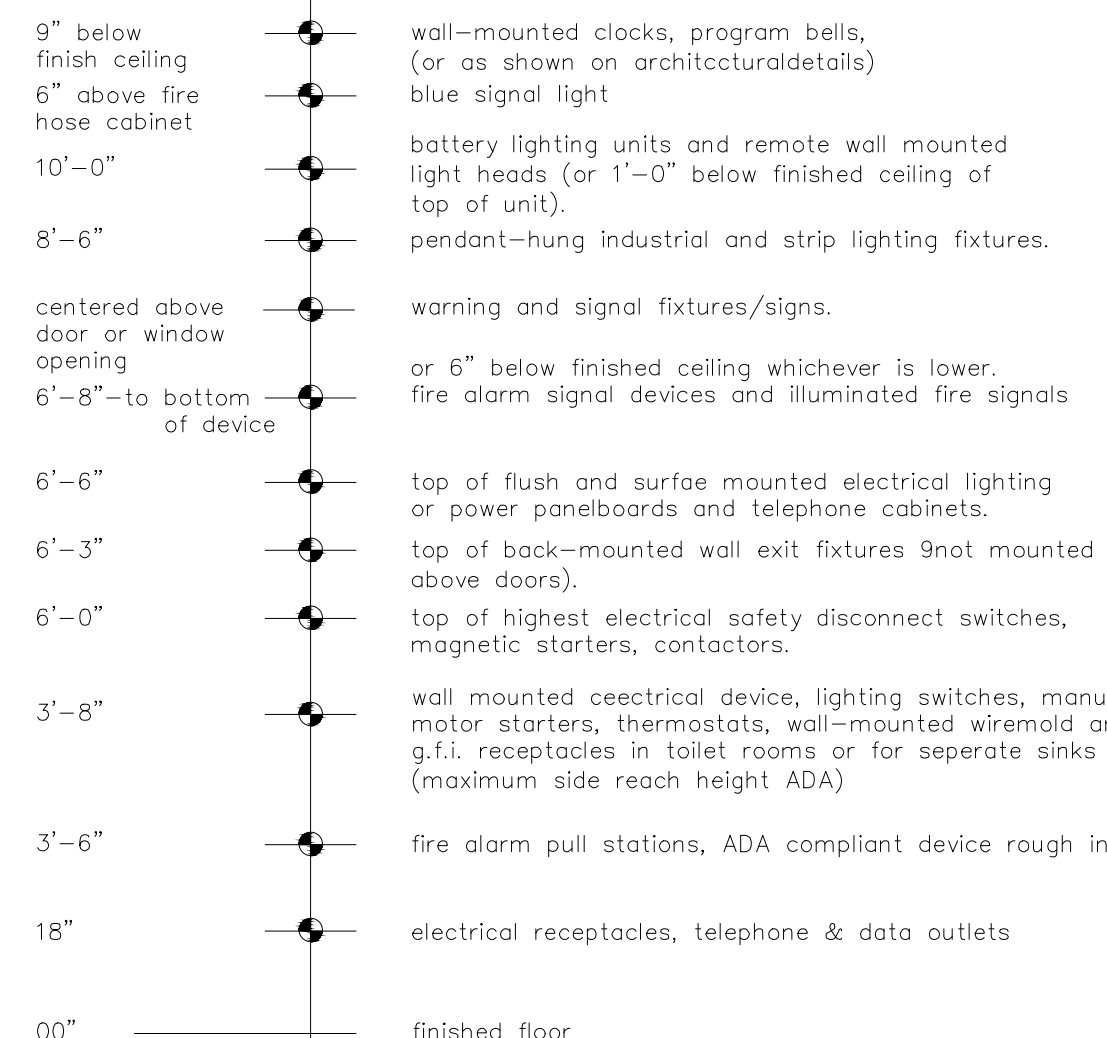
- GENERAL: ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE 2008 NATIONAL ELECTRICAL CODE (NEC) AND NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA) STANDARDS UNLESS MORE STRINGENT REQUIREMENTS ARE INDICATED. ALL ELECTRICAL WORK SHALL COMPLY WITH ADA RECOMMENDATIONS. ALL ELECTRICAL WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER BY A LICENSED ELECTRICIAN, OR A CERTIFIED APPRENTICE WORKING UNDER THE DIRECT SUPERVISION OF A LICENSED ELECTRICIAN, USING THE BEST METHODS KNOWN TO THE TRADE AND SHALL PRESENT A NEAT AND PROFESSIONAL APPEARANCE WHEN COMPLETED. THE OWNER RESERVES THE RIGHT TO CHANGE WITHOUT ADDITIONAL COST, THE LOCATION OF ANY APPARATUS OR OUTLET, PROVIDED SUCH CHANGE DOES NOT ADD MORE THAN 10 FT TO THE FEEDER AND IS ORDERED BEFORE INSTALLATION OF THE AFFECTED PORTION OF THE WORK IS COMMENCED. CONTRACTOR SHALL BRING ALL CONFLICTS ON THE DRAWINGS TO THE OWNERS ATTENTION FOR HIS RESOLUTION PRIOR TO PERFORMING THAT WORK.
- THE CONTRACTOR SHALL SURVEY THE PROJECT SITE PRIOR TO THE BID TO ASSESS ACTUAL FIELD CONDITIONS. FAILURE TO PERFORM THIS INSPECTION BINDS THE CONTRACTOR TO THE WORK WITH OUT EXTRA CHARGES DESPITE THE IGNORANCE OF REASONABLY ANTICIPATED CONDITIONS.
- ROUGH-INS: THE CONTRACTOR SHALL VERIFY AND COORDINATE THE ROUGH-IN REQUIREMENTS OF EACH ITEM OF EQUIPMENT WITH THE CONTRACTOR SUPPLYING THE EQUIPMENT.
- INSTALLATION: THE ELECTRICAL DRAWINGS INDICATE THE EXTENT AND GENERAL LOCATION AND ARRANGEMENT OF EQUIPMENT AND MATERIALS. THE CONTRACTOR SHALL BECOME FAMILIAR WITH ALL DETAILS OF THE WORK AND VERIFY ALL DIMENSIONS IN THE FIELD SO THAT EQUIPMENT AND MATERIALS WILL BE PROPERLY LOCATED AND READILY ACCESSIBLE. THE CONTRACTOR SHALL SEQUENCE, COORDINATE, AND INTEGRATE THE VARIOUS ELEMENTS OF ELECTRICAL SYSTEMS, EQUIPMENT, AND MATERIALS. COMPLY WITH THE FOLLOWING REQUIREMENTS:
 - VERIFY ALL DIMENSIONS BY FIELD MEASUREMENTS.
 - COORDINATE ELECTRICAL SYSTEMS, EQUIPMENT, AND MATERIALS INSTALLATION WITH OTHER BUILDING COMPONENTS AND TRADES.
 - ARRANGE FOR CHASES, SLOTS, AND OPENINGS IN OTHER BUILDING COMPONENTS DURING PROGRESS OF CONSTRUCTION, TO ALLOW FOR INSTALLATION OF ELECTRICAL SYSTEMS, EQUIPMENT, AND MATERIALS.
 - SEQUENCE, COORDINATE, AND INTEGRATE INSTALLATION OF ELECTRICAL SYSTEMS, EQUIPMENT, AND MATERIALS FOR EFFICIENT FLOW OF THE WORK.
 - WHERE MOUNTING HEIGHTS ARE NOT INDICATED, INSTALL ELECTRICAL SYSTEMS, EQUIPMENT, AND MATERIALS TO PROVIDE MAXIMUM HEADROOM POSSIBLE.
 - INSTALL ELECTRICAL SYSTEMS, EQUIPMENT, AND MATERIALS TO CONFORM WITH APPROVED SUBMITTAL DATA TO THE GREATEST EXTENT POSSIBLE. CONFORM TO THE ARRANGEMENTS INDICATED ON THE ELECTRICAL DRAWINGS. RECOGNIZING THAT PORTIONS OF THE WORK ARE SHOWN ONLY IN DIAGRAMATIC FORM, WHERE COORDINATION REQUIREMENTS CONFLICT WITH INDIVIDUAL SYSTEM REQUIREMENTS, REFER CONFLICT TO THE ARCHITECT/ENGINEER OR OWNER'S REPRESENTATIVE FOR RESOLUTION.
 - IN GENERAL, INSTALL ELECTRICAL SYSTEMS, EQUIPMENT, AND MATERIALS LEVEL AND PLUMB, PARALLEL AND PERPENDICULAR TO BUILDING LINES AND/OR FEATURES AND/OR OTHER BUILDING SYSTEMS.
 - INSTALL ELECTRICAL EQUIPMENT TO FACILITATE SERVICING, MAINTENANCE, AND REPAIR OR REPLACEMENT OF EQUIPMENT AND COMPONENT PARTS AS MUCH AS PRACTICAL. CONNECT EQUIPMENT FOR EASE OF DISCONNECTING, WITH MINIMUM OF INTERFERENCE WITH OTHER INSTALLATIONS.
 - INSTALL ELECTRICAL SYSTEMS, EQUIPMENT, AND MATERIALS GIVING RIGHT-OF-WAY PRIORITY TO SYSTEMS REQUIRED TO BE INSTALLED AT A SPECIFIC SLOPE (INCL. SPRINKLER SYSTEMS).
- CUTTING AND PATCHING: ALL ELECTRICAL WORK SHALL BE CAREFULLY LAID OUT IN ADVANCE, AND WHERE CUTTING, CHANNELING, CHASING, OR DRILLING OF FLOORS, WALLS, PARTITIONS, CEILINGS, OR OTHER SURFACES IS NECESSARY FOR THE PROPER INSTALLATION, SUPPORT, OR ANCHORAGE OF CONDUIT OR OTHER ELECTRICAL WORK, THIS WORK SHALL BE CAREFULLY DONE. ANY RESULTING DAMAGE TO THE BUILDING OR OTHER SYSTEMS, EQUIPMENT, OR MATERIALS SHALL BE REPAIRED BY SKILLED MECHANICS OF THE TRADES INVOLVED, AT NO ADDITIONAL COST TO THE OWNER.
- PRODUCTS: SYSTEMS, EQUIPMENT, AND MATERIALS DESCRIBED ON THE ELECTRICAL DRAWINGS ESTABLISH THE MINIMUM STANDARDS FOR QUALITY AND STYLE AND SHALL BE THE BASIS OF THE BID. ALL SYSTEMS, EQUIPMENT, AND MATERIALS SHALL BE NEW AND SHALL BEAR THE UL LABEL OR BE UL LISTED, WHERE APPLICABLE, AND SHALL BE INSTALLED IN ACCORDANCE WITH THE NEC AND NEMA STANDARDS.
- SUBSTITUTIONS: WHERE SYSTEMS, EQUIPMENT, OR MATERIALS ARE SPECIFIED BY MANUFACTURER OR BRAND NAME AND CATALOG NUMBER, SUCH SPECIFICATION SHALL ESTABLISH THE MINIMUM STANDARDS FOR QUALITY AND STYLE AND SHALL BE THE BASIS OF THE BID. SYSTEMS, EQUIPMENT, AND MATERIALS TO BE SUBSTITUTED SHALL BE FURNISHED UNDER THE CONTRACT UNLESS CHANGED BY WRITTEN AGREEMENT. SHOULD THE CONTRACTOR PROPOSE TO FURNISH PRODUCTS OTHER THAN THOSE SPECIFIED, AS PERMITTED BY "OR APPROVED EQUAL" CLAUSES, HE SHALL SUBMIT A WRITTEN REQUEST FOR SAID SUBSTITUTIONS THROUGH APPROPRIATE CHANNELS TO THE ARCHITECT/ENGINEER FOR HIS REVIEW. SUCH REQUEST SHALL BE ACCOMPANIED WITH COMPLETE DESCRIPTIVE LITERATURE INCLUDING, BUT NOT LIMITED TO, CATALOG CUT SHEETS, BROCHURES, CIRCULARS, SPECIFICATIONS, PERFORMANCE DATA, INSTALLATION INSTRUCTIONS, SHOP DRAWINGS, AND OTHER PRINTED INFORMATION IN SUFFICIENT DETAIL AND SCOPE TO VERIFY COMPLIANCE WITH THE REQUIREMENTS OF THE CONTRACT. DESCRIPTIVE LITERATURE ON PROPOSED SUBSTITUTIONS SHALL BE CLEAR, CONCISE, AND LOGICALLY ARRANGED. ALL DATA WHICH IS, AND IS NOT, APPLICABLE SHALL BE CLEARLY IDENTIFIED AS SUCH. IF REQUESTED, THE CONTRACTOR SHALL SUBMIT SAMPLES OF BOTH SPECIFIED AND PROPOSED ITEMS FOR INSPECTION. DESCRIPTIVE LITERATURE ON PROPOSED SUBSTITUTIONS SHALL BE RETURNED WITHOUT REVIEW IF NOT PROPERLY PREPARED. ACCEPTANCE OR REJECTION OF PROPOSED SUBSTITUTIONS SHALL BE UP TO THE DISCRETION OF THE ARCHITECT/ENGINEER AND/OR THE OWNER.
- SUBMITTALS: THE CONTRACTOR SHALL FOLLOW THE GENERAL PROVISIONS OF THE CONTRACT AND ESTABLISHED PROCEDURES. SUBMITTALS SHALL CONSIST OF COMPLETE DESCRIPTIVE LITERATURE INCLUDING, BUT NOT LIMITED TO, CATALOG CUT SHEETS, BROCHURES, CIRCULARS, SPECIFICATIONS, PERFORMANCE DATA, INSTALLATION INSTRUCTIONS, SHOP DRAWINGS, AND OTHER PRINTED INFORMATION IN SUFFICIENT DETAIL AND SCOPE TO VERIFY COMPLIANCE WITH THE REQUIREMENTS OF THE CONTRACT. DESCRIPTIVE LITERATURE SHALL BE CLEAR, CONCISE, AND LOGICALLY ARRANGED. ALL DATA WHICH IS, AND IS NOT, APPLICABLE SHALL BE CLEARLY IDENTIFIED AS SUCH. IF REQUESTED, THE CONTRACTOR SHALL SUBMIT SAMPLES OF SPECIFIED ITEMS FOR INSPECTION. DESCRIPTIVE LITERATURE SHALL BE RETURNED WITHOUT REVIEW IF NOT PROPERLY PREPARED. THE FOLLOWING SYSTEMS, EQUIPMENT, AND MATERIALS, AS A MINIMUM, REQUIRE SUBMITTALS:
 - ANY PROPOSED SUBSTITUTIONS:
 - WIRING DEVICES.
 - PANELBOARDS.
 - DISCONNECT SWITCHES.
 - CIRCUIT BREAKERS.
 - LIGHTING FIXTURES INCLUDING BALLASTS.
- RECORD DRAWINGS: THE CONTRACTOR SHALL MAINTAIN AT THE SITE A CLEAN, UNDAMAGED SET OF BLUE- OR BLACK-LINE WHITE PRINTS OF CONTRACT DRAWINGS. THIS RECORD SET OF CONTRACT DRAWINGS SHALL BE MARKED TO SHOW THE ACTUAL INSTALLATION AND WHERE THE ACTUAL INSTALLATION VARIES SUBSTANTIALLY FROM THE ELECTRICAL WORK AS ORIGINALLY SHOWN. MARK WHICHEVER DRAWINGS ARE MOST CAPABLE OF SHOWING CONDITIONS FULLY AND ACCURATELY. GIVE PARTICULAR ATTENTION TO CONCEALED ELEMENTS THAT WOULD BE DIFFICULT TO MEASURE AND RECORD AT A LATER DATE. MARK RECORD DRAWINGS WITH A RED PENCIL. USE OTHER COLORS TO DISTINGUISH BETWEEN VARIATIONS IN SEPARATE CATEGORIES OF THE ELECTRICAL WORK. NOTE CONTRACT MODIFICATIONS AND APPROVED SUBSTITUTIONS WHERE APPLICABLE.
- PROTECTION OF INSTALLED SYSTEMS, EQUIPMENT, AND MATERIALS: PROTECT INSTALLED SYSTEMS, EQUIPMENT, AND MATERIALS FROM DAMAGE UNTIL FINAL ACCEPTANCE BY THE OWNER. REPAIR OR REPLACE, AT NO ADDITIONAL COST TO THE OWNER, DAMAGED SYSTEMS, EQUIPMENT, AND MATERIALS TO THE SATISFACTION OF THE ARCHITECT/ENGINEER AND/OR OWNER.
- CLEANING: UPON COMPLETION OF INSTALLATION, INSPECT INTERIOR AND EXTERIOR OF ALL ELECTRICAL EQUIPMENT. REMOVE PAINT SPLATTERS AND OTHER SPOTS, DIRT, AND DEBRIS. TOUCH-UP SCRATCHES AND MARKS OF FINISH TO MATCH ORIGINAL FINISH.
- CERTIFICATIONS: THE FOLLOWING SHALL BE OBTAINED AND SUBMITTED TO THE OWNER PRIOR TO FINAL PAYMENT:
 - ELECTRICAL SYSTEMS: A CERTIFICATE OF FINAL INSPECTION AND APPROVAL BY THE AUTHORITIES HAVING JURISDICTION.
- GUARANTEE: THE CONTRACTOR SHALL SUBMIT A WRITTEN GUARANTEE TO THE OWNER, PRIOR TO FINAL PAYMENT, THAT WARRANTIES THE INSTALLATION SHALL REMAIN FREE OF DEFECTS FOR A PERIOD OF ONE YEAR AFTER FINAL ACCEPTANCE BY THE OWNER. THE GUARANTEE SHALL STATE THAT THE OWNER IS NOT LIABLE FOR PARTS AND LABOR COSTS INCURRED BY THE CONTRACTOR IN THE REPAIR OF ACTUAL PRODUCT OR INSTALLATION DEFECTS. THE GUARANTEE SHALL STATE THAT THE ON-SITE RESPONSE TIME TO REQUESTS FOR ASSISTANCE WILL BE 24 HOURS FOR NON-EMERGENCY CONDITIONS AND 2 HOURS FOR EMERGENCY CONDITIONS.

ELECTRICAL MATERIALS:

- RACEWAYS:
 - RIGID GALVANIZED STEEL (RGS) CONDUIT: ANSI C80.1.
 - ELECTRICAL METALLIC TUBING (EMT) AND FITTINGS: ANSI C80.3 WITH COMPRESSION TYPE FITTINGS.
 - LIQUIDTIGHT FLEXIBLE METAL CONDUIT: UL 360. FLEXIBLE STEEL CONDUIT WITH PVC JACKET.
 - NONMETALLIC CONDUIT AND TUBING (ENT): NEMA TO 13.
- BOXES:
 - SHEET METAL: NEMA OS 1.
 - CAST METAL: NEMA FB 1, TYPE FD, CAST FERROUS BOX WITH GASKETED COVER.
 - HINGED COVER ENCLOSURES: NEMA 250, GALVANIZED STEEL ENCLOSURE WITH CONTINUOUS COVER, QUICK RELEASE TONGUE LATCHES, REMOVABLE INTERIOR PANEL, AND MANUFACTURER'S STANDARD GRAY ENAMEL INSIDE AND OUT.
- WIRES AND CABLES:
 - CONDUCTOR MATERIAL: ANNEALED COPPER.
 - INSULATION: THHN/THWN CONFORMING TO WC 5.
 - CONDUCTORS #16 AWG AND SMALLER SHALL BE SOLID; CONDUCTORS #14 AWG AND LARGER SHALL BE STRANDED. MC CABLE IS PERMITTED FOR BRANCH CIRCUITRY, AND SHALL UTILIZE SOLID CONDUCTORS.
 - GROUND CONDUCTORS #10 AWG AND SMALLER SHALL HAVE GREEN THHN/THWN INSULATION.
- WIRING DEVICES:
 - GENERAL: COMPLY WITH NEMA WD 1, "GENERAL PURPOSE WIRING DEVICES."
 - COLOR: WHITE, BLACK, GRAY, IVORY, OR BROWN TO BE AS SELECTED BY THE ARCHITECT/ENGINEER AND/OR THE OWNER.
 - RECEPTACLES: COMPLY WITH UL 498, "ELECTRICAL ATTACHMENT PLUGS AND RECEPTACLES." "HEAVY DUTY SPECIFICATION GRADE EXCEPT AS OTHERWISE INDICATED. GROUND FAULT CIRCUIT INTERRUPTER (GFCI) TYPE RECEPTACLES SHALL COMPLY WITH UL 943, "GROUND FAULT CIRCUIT INTERRUPTERS," WITH INTEGRAL NEMA 5-20R DUPLEX RECEPTACLE DESIGNED FOR INSTALLATION IN A 2-3/4" DEEP DEVICE BOX WITHOUT ADAPTER.
 - COMPLY WITH UL 20, "GENERAL USE SNAP SWITCHES." SINGLE-POLE, TWO-POLE, THREE-WAY, AND FOUR-WAY AS INDICATED AND/OR REQUIRED.
 - DEVICE PLATES: SINGLE AND COMBINATION TYPES WHICH MATE AND MATCH WITH CORRESPONDING WIRING DEVICES.
 - MANUFACTURER: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS AS MANUFACTURED BY HUBBELL INC. OR APPROVED EQUAL BY LEVITON.
- GROUNDING:
 - GROUNDING AND BONDING PRODUCTS: OF TYPES INDICATED AND/OR OF SIZES AND RATINGS TO COMPLY WITH THE NEC. WHERE TYPES, SIZES, RATINGS, AND QUANTITIES ARE IN EXCESS OF NEC REQUIREMENTS, THE MORE STRINGENT REQUIREMENTS AND THE GREATER SIZE, RATING, AND QUANTITY INDICATIONS SHALL GOVERN. MATCHING NYLON IN ALL AREAS.
 - CONDUCTOR MATERIAL: COPPER.
 - WIRE AND CABLE CONDUCTORS: CONFORM TO NEC TABLE 8, EXCEPT AS OTHERWISE INDICATED, FOR CONDUCTOR PROPERTIES, INCLUDING STRANDING.
 - CONNECTOR PRODUCTS: UL LISTED AND LABELED AS GROUNDING CONNECTORS FOR THE MATERIALS USED.
- PANELBOARDS:
 - CIRCUIT BREAKERS: PROVIDE TYPE, RATING, AND FEATURES INDICATED. BOLT-ON EXCEPT WHERE PLUG-IN FOR USE ON EXISTING PANELBOARDS (NOT BEING UPGRADED) TANDEM CIRCUIT BREAKERS SHALL NOT BE USED. MULTIPLE CIRCUIT BREAKERS SHALL HAVE AN INTERNAL COMMON TRIP AND A SINGLE HANDLE.
 - ENCLOSURES: NEMA TYPE 1, UNLESS OTHERWISE INDICATED.
 - FRONT: SECURED TO BOX WITH CONCEALED TRIM CLAMPS EXCEPT AS INDICATED. FRONT FOR SURFACE MOUNTED PANELBOARDS SHALL BE SAME DIMENSIONS AS BOX.
 - DIRECTORY FRAME: METAL WITH CLEAR PLASTIC COVER MOUNTED ON INSIDE OF PANELBOARD DOOR.
 - BUS WORK: HARD DRAWN COPPER OF 98% CONDUCTIVITY.
 - MAIN AND NEUTRAL LUGS: AS MANUFACTURED BY THE MANUFACTURER.
 - EQUIPMENT GROUND BUS: ADEQUATE FOR FEEDER AND BRANCH CIRCUIT EQUIPMENT GROUND CONDUCTORS, BONDED TO BOX.
 - PROVISIONS FOR FUTURE DEVICES: EQUIP WITH MOUNTING BREAKETS, BUS CONNECTION, AND NECESSARY APPURTENANCES, FOR THE CIRCUIT BREAKER AMPERE RATING INDICATED FOR FUTURE INSTALLATION OF DEVICES.
 - MAIN AND SUBFEED LUGS: PROVIDE WHERE INDICATED.
 - NAMEPLATE: CUSTOM ENGRAVED PLASTIC LAMINATE, WHITE LETTERS ON BLACK FIELD, FOR EACH PANELBOARD MOUNTED WITH EPOXY OR INDUSTRIAL CEMENT OR ADHESIVE.
 - MANUFACTURER: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS AS MANUFACTURED BY SQUARE-D, SIEMENS OR OUTLER HAMMER CO.
- DISCONNECTS AND CIRCUIT BREAKERS:
 - FUSIBLE SWITCH, BOLA AND SMALLER: NEMA KS 1, TYPE HD, CLIPS TO ACCOMMODATE SPECIFIED WIRE SIZES, ENCLOSURE SUITABLE FOR THE ENVIRONMENT WHERE INSTALLED, HANDLE LOCKABLE WITH TWO (2) PAD LOCKS, AND INTERLOCKED WITH COVER IN "CLOSED" POSITION. ENCLOSURES SHALL COMPLY WITH NEMA KS 1; TYPE 1 INDOOR DRY LOCATIONS.
 - MOLDED CASE CIRCUIT BREAKER: NEMA AB 1, HANDLE LOCKABLE WITH TWO (2) PADLOCKS. FRAME SIZE OR RATING NUMBER OF POLES, AND AUXILIARY DEVICES AS INDICATED. ENCLOSURES SHALL COMPLY WITH NEMA AB 1; TYPE 1, INDOOR DRY LOCATIONS. CIRCUIT BREAKERS SHALL HAVE A MINIMUM INTERRUPTING CAPACITY AS FOLLOWS:
 - MANUFACTURER: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS AS SUITABLE FOR INSTALLATION IN EXISTING PANELS. DISCONNECTS SHALL BE BY SQUARE-D.

STANDARD MOUNTING HEIGHTS

(UNLESS OTHERWISE NOTED)



MOUNTING HEIGHT NOTES:

- STANDARD MOUNTING HEIGHTS: (COORDINATE WITH ARCH DRAWINGS) ALL MOUNTING HEIGHTS SHALL BE AS INDICATED BY ARCHITECT. IF NOT INDICATED BY ARCHITECT THEN PROVIDE AS NOTED ABOVE.
- MOUNTING HEIGHTS TO CENTER OF OUTLETS UNLESS OTHERWISE NOTED. IN MASONRY CONSTRUCTION THE ABOVE MOUNTING HEIGHTS SHALL BE USED FOR REFERENCE TO NEAREST BLOCK OR BRICK COURSING.
- THE ABOVE MOUNTING HEIGHT SHALL BE ADHERED TO UNLESS SPECIFICALLY NOTED OR DETAILED OTHERWISE ON THE DRAWING OR SPECIFICATIONS.
- INDICATION (+) NEXT TO A DEVICE INDICATES THAT DEVICE IS MOUNTED ABOVE A COUNTER OR CASEWORK. COORDINATE WITH ARCHITECTURAL DETAIL AND CASEWORK CONTRACTOR.

ELECTRICAL NOTES:

- WIRING METHODS: WIRING SHALL CONSIST OF ROMEX (NON-METALIC) OR CABLES AND WIRES INSTALLED IN RGS CONDUIT, EMT, LIQUIDTIGHT FLEXIBLE METAL CONDUIT AND MC CABLES. RACEWAYS SHALL BE CONCEALED WITHIN FINISHED WALLS AND CEILINGS UNLESS OTHERWISE INDICATED. OTHER THAN ROOF PENETRATIONS REQUIRED TO FEED ROOF MOUNTED EQUIPMENT, RACEWAYS WILL NOT BE ROUTED EXPOSED OUTSIDE OF THE BUILDING.
- RACEWAYS: RACEWAYS SHALL BE PROVIDED WHERE INDICATED AND REQUIRED AND SHALL BE INSTALLED AS SPECIFIED BELOW, UNLESS OTHERWISE INDICATED. MINIMUM RACEWAY SIZE SHALL BE 3/4 IN. RGS CONDUIT SHALL BE USED FOR ALL OUTDOOR INSTALLATIONS. EMT SHALL BE USED FOR ALL INDOOR INSTALLATIONS. LIQUIDTIGHT FLEXIBLE METAL CONDUIT, 6 FT MAXIMUM LENGTH, SHALL BE USED FOR ALL CONDUIT TERMINATIONS AT EQUIPMENT SUBJECT TO VIBRATION. BUSHINGS, MANUFACTURED FITTINGS, OR BOXES PROVIDING EQUIVALENT MEANS OF PROTECTION SHALL BE INSTALLED ON THE ENDS OF ALL CONDUITS AND SHALL BE OF THE TYPE AND SIZE REQUIRED BY THE N.E.C. ONLY LISTED ADAPTERS SHALL BE USED TO CONNECT EMT TO RGS CONDUIT AND CAST METAL BOXES AND CONDUIT BODIES. PENETRATIONS OF SLABS AND FIRE RATED WALLS SHALL BE FIRESTOPPED.
- KEEP RACEWAYS AT LEAST 6 IN. AWAY FROM PARALLEL RUNS OF FLUES AND STEAM OR HOT WATER PIPING. INSTALL HORIZONTAL RACEWAY RUNS HIGHER THAN WATER AND STEAM PIPING. RACEWAYS CROSSING STRUCTURAL EXPANSION JOINT SHALL BE PROVIDED WITH SUITABLE EXPANSION FITTINGS OR OTHER SUITABLE MEANS TO COMPENSATE FOR THE BUILDING EXPANSION AND CONTRACTION. RACEWAYS SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO WALLS, STRUCTURAL MEMBERS AND FEATURES, MECHANICAL DUCT AND PIPING SYSTEMS, OR INTERSECTIONS OF VERTICAL PLANES AND CEILINGS. CHANGES IN DIRECTION OF RUNS SHALL BE ACCOMPLISHED WITH SYMMETRICAL BENDS OR CAST METAL FITTINGS. FILED-MADE ELBOWS AND OFFSETS SHALL BE MADE WITH AN APPROVED HICKEE OR CONDUIT BENDING MACHINE. CONDUIT BENDING SHALL BE USED IN LIEU OF EXPANSION BOLTS OR HANGERS ON STEEL WORK. NAIL TYPE NYLON ANCHORS OR THREADED STUDS DRIVEN INTO A POWDER CHARGE AND PROVIDED WITH LOCK WASHERS AND NUTS, OR EXPANSION BOLTS ON CONCRETE OR BRICK; AND BY MACHINE SCREWS, WELDED THREADED STUDS, HEAT TREATED OR SPRING STEEL TENSION CLAMPS ON STEEL WORK. NAIL TYPE NYLON ANCHORS OR THREADED STUDS DRIVEN INTO A POWDER CHARGE AND PROVIDED WITH LOCK WASHERS AND NUTS, OR NAIL TYPE NYLON ANCHORS MAY BE USED IN LIEU OF EXPANSION SHIELDS OR MACHINE SCREWS AND NUTS, OR NAIL TYPE NYLON ANCHORS MAY BE USED IN LIEU OF EXPANSION SHIELDS OR MACHINE SCREWS. HANGERS SHALL NOT BE FASTENED OR SUPPORTED FROM JOIST BRIDGING.
- BOXES: BOXES SHALL BE PROVIDED IN RACEWAY SYSTEMS WHEREVER REQUIRED FOR PULLING OF WIRES, MAKING CONNECTIONS, AND MOUNTING OF DEVICES OR LIGHTING FIXTURES. IN GENERAL, BOXES SHALL BE CONSTRUCTED OF HOT-DIPPED GALVANIZED FINISHED SHEET STEEL. BOXES FOR METALLIC RACEWAYS, 4 IN. BY 4 IN. NOMINAL SIZE AND SMALLER, SHALL BE OF THE CAST METAL HUBB TYPE AND GASKETED WHEN LOCATED OUTSIDE OF THE BUILDING. BOXES SHALL BE LISTED AS SUITABLE FOR THE ENVIRONMENTAL CONDITIONS OF THE LOCATION THEY ARE INSTALLED. BOXES FOR MOUNTING OF LIGHTING FIXTURES SHALL BE NOT LESS THAN 4 IN. SQUARE EXCEPT SMALLER BOXES SHALL BE INSTALLED WHERE REQUIRED BY FIXTURE CONFIGURATION. DEVICE BOXES FOR RECEPTACLES SHALL BE MOUNTED WITH THE CENTER OF THE DEVICE BOX APPROXIMATELY 18 IN. AFF. INDICATED, DEVICE BOXES FOR TOGGLE SWITCHES SHALL BE MOUNTED WITH THE CENTER OF THE DEVICE BOX APPROXIMATELY 48 IN. AFF. BOXES AND BOX SUPPORTS SHALL BE FASTENED TO WOOD WITH WOOD SCREWS OR SCREW TYPE NAILS OF EQUAL STRENGTH, WITH BOLTS ON CONCRETE AND BRICK, WITH TOGGLE BOLTS ON HOLLOW CMU, AND WITH MACHINE SCREWS OR WELDED STUDS ON STEEL WORK. THREADED STUDS DRIVEN IN BY POWDER CHARGE AND PROVIDED WITH LOCKWASHERS AND NUTS, OR NAIL TYPE NYLON ANCHORS MAY BE USED IN LIEU OF EXPANSION SHIELDS OR MACHINE SCREWS. HANGERS SHALL NOT BE FASTENED OR SUPPORTED FROM JOIST BRIDGING.
- WIRES AND CABLES: EXAMINE RACEWAYS AND BUILDING FINISHES TO RECEIVE WIRES AND CABLES FOR COMPLIANCE WITH INSTALLATION TOLERANCES AND OTHER CONDITIONS. DO NOT PROCEED WITH INSTALLATION UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED. PULL WIRES AND CABLES INTO RACEWAY SIMULTANEOUSLY WHERE MORE THAN ONE IS BEING INSTALLED IN THE SAME RACEWAY. USE PULLING COMPOUND OR LUBRICANT WHERE NECESSARY. COMPOUND USED MUST NOT DEGRADATE CONDUCTORS OR INSULATION. USE PULLING MEANS, INCLUDING FISH TAPE, CABLE, ROPE, AND BASKET-WEAVE WIRE/CABLE GRIPS THAT WILL NOT DAMAGE WIRES/CABLES OR RACEWAY. INSTALL EXPOSED CABLE, PARALLEL AND PERPENDICULAR TO WALLS, STRUCTURAL MEMBERS AND FEATURES, MECHANICAL DUCT AND PIPING SYSTEMS, OR INTERSECTIONS OF VERTICAL PLANES AND CEILING. HORIZONTAL RUNS OF 4 FT MAXIMUM CENTERS. VERTICAL RUNS OF 4 FT MAXIMUM CENTERS. EXPOSED PLENUM CABLE SHALL BE SUPPORTED ON 3 FT MAXIMUM CENTERS. THE NUMBER OF SPLICES SHALL BE KEPT TO AN ABSOLUTE MINIMUM. WIRING AT EACH OUTLET SHALL BE INSTALLED WITH AT LEAST 8 IN. SLACK.
- WIRING DEVICES: INSTALL WIRING DEVICES WHERE INDICATED IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED INSTALLATION, INSTRUCTION APPLICABLE REQUIREMENTS OF THE NEC, AND RECOGNIZED INDUSTRY PRACTICES. INSTALL WIRING DEVICES IN CLEAN AND DRY LOCATIONS. PROTECT FROM DIRT AND CONSTRUCTION MATERIALS AND DEBRIS. INSTALL WIRING DEVICES AFTER WIRING WORK IS COMPLETE. INSTALL DEVICE PLATES AFTER PAINTING WORK IS COMPLETE. TIGHTEN CONNECTORS AND TERMINALS, INCLUDING SCREWS AND BOLTS, IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED TORQUE-TIGHTENING VALUES. PRIOR TO ENERGIZING CIRCUITS, TEST WIRE FOR ELECTRICAL CONTINITY AND SHORTS. ENSURE PROPER POLARITY OF CONNECTIONS IS MAINTAINED. SUBSEQUENT TO ENERGIZING, TEST WIRING DEVICES AND DEMONSTRATE COMPLIANCE WITH REQUIREMENTS.
- GROUNDING: ELECTRICAL SYSTEMS AND EQUIPMENT, METALLIC RACEWAYS AND BOXES, CABLE SHIELDS, METALLIC CABLE SHEATHS AND ARMOR, AND OTHER NON-CURRENT CARRYING METALLIC PARTS OF EQUIPMENT SHALL BE GROUNDED IN CONFORMANCE WITH THE NEC. EQUIPMENT GROUND CONDUCTORS SHALL COMPLY WITH NEC ARTICLE 250 FOR SIZES AND QUANTITIES, EXCEPT WHERE LARGER SIZES AND/OR MORE CONDUCTORS ARE SPECIFIED. PROVIDE SEPARATE INSULATED GROUND CONDUCTOR IN ALL RACEWAYS, REGARDLESS OF RACEWAY TYPE. SEPARATELY DERIVED SYSTEMS AS DEFINED BY THE NEC SHALL BE GROUNDED IN CONFORMANCE WITH NEC ARTICLE 250 PARA. 26. TERMINATE EQUIPMENT GROUND WIRES FOR FEEDERS AND BRANCH CIRCUITS WITH PRESSURE TYPE GROUND LUGS. WHERE METALLIC CONDUITS TERMINATE AT PANELBOARDS, PROVIDE WITHOUT MECHANICAL AND ELECTRICAL CONTACT TO HOUSING, TERMINATE EACH CONDUIT WITH A GROUNDING BUSHING. CONNECT GROUNDING BUSHINGS WITH A GROUND WIRE TO THE GROUND BUS IN THE HOUSING. BOND ELECTRICALLY NONCONTINUOUS CONDUITS AT BOTH ENTRANCES AND EXITS WITH GROUNDING BUSHINGS AND GROUND WIRES. TIGHTEN GROUNDING AND BONDING CONNECTORS AND TERMINALS, INCLUDING SCREWS AND BOLTS, IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED TORQUE-TIGHTENING VALUES.
- PANELBOARDS: INSTALL PANELBOARDS AND ACCESSORY ITEMS IN ACCORDANCE WITH NEMA FB 1.1, "GENERAL INSTRUCTIONS FOR PROPER INSTALLATION, OPERATION, AND MAINTENANCE OF PANELBOARDS RATED 600 VOLTS OR LESS," AND MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS. MOUNT PANELBOARDS PLUMB AND RIGID WITHOUT DISTORTION OF BOX AND WITH THE TOP OF THE TRIM AT 78 IN. AFF UNLESS OTHERWISE INDICATED. PROVIDE NEATLY TYPED AND ACCURATE CIRCUIT DIRECTORIES IN EACH PANELBOARD. REFLECTIVE OF FINAL CIRCUIT CONFIGURATION. PROVIDE FILLER PLATES IN ALL UNUSED SPACES. TRIM WIRES IN PANELBOARDS GUTTERS NEATLY IN GROUPS, BUNDLE, AND WRAP WITH WIRE TIES. GROUND PANELBOARD IN CONFORMANCE WITH THE NEC. TIGHTEN ELECTRICAL CONNECTORS AND TERMINALS, INCLUDING GROUNDING CONNECTIONS, IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED TORQUE-TIGHTENING VALUES. PERFORM INSULATION RESISTANCE TESTS OF PANELBOARD BUSES, COMPONENTS, AND FEEDER AND BRANCH CIRCUIT WIRING. INSULATION RESISTANCE LESS THAN 100 MEGOHM IS UNACCEPTABLE.
- DISCONNECTS AND CIRCUIT BREAKERS: PROVIDE DISCONNECTS AND CIRCUIT BREAKERS WHERE INDICATED ON THE ELECTRICAL DRAWINGS AND/OR WHERE REQUIRED BY THE NEC, WHETHER INDICATED ON THE ELECTRICAL DRAWINGS OR NOT. INSTALL DISCONNECTS AND CIRCUIT BREAKERS PLUMB AND LEVEL AND IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS. UPON COMPLETION OF INSTALLATION OF DISCONNECTS AND CIRCUIT BREAKERS, ENERGIZE CIRCUITS AND DEMONSTRATE CAPABILITY AND COMPLIANCE WITH REQUIREMENTS. EXCEPT WHERE INDICATED, DO NOT DEMONSTRATE DISCONNECTS AND CIRCUIT BREAKERS BY OPERATING THEM UNDER LOAD; HOWEVER, DEMONSTRATE DISCONNECT AND CIRCUIT BREAKERS OPERATION THROUGH SIX OPENING/CLOSING CYCLES WITH CIRCUIT UNLOADED. OPEN DISCONNECT AND CIRCUIT BREAKER ENCLOSURES FOR INSPECTION OF INTERIOR, MECHANICAL AND ELECTRICAL CONNECTIONS, FUSE INSTALLATION, AND FOR VERIFICATION OF TYPE AND RATING OF FUSES INSTALLED IN APPLICABLE. CORRECT DEFICIENCIES THEN RETEST TO DEMONSTRATE COMPLIANCE WITH REQUIREMENTS. REMOVE AND REPLACE DEFECTIVE UNITS WITH NEW UNITS AND RETEST.
- LIGHTING FIXTURES: INSTALL FIXTURES WHERE, AND AT HEIGHTS, INDICATED IN ACCORDANCE WITH FIXTURE MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS, REQUIREMENTS OF THE NEC, AND RECOGNIZED INDUSTRY PRACTICES. TIGHTEN ELECTRICAL CONNECTORS AND TERMINALS, INCLUDING GROUND CONNECTIONS, IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED TORQUE-TIGHTENING VALUES. RECESSED OR SEMIRECESSED FIXTURES MAY BE SUPPORTED BY CEILING SUPPORT SYSTEM. INSTALL CEILING SUPPORT SYSTEM RODS OR WIRES AT A MINIMUM OF FOUR (4) RODS OR WIRES PER FIXTURE LOCATED NOT MORE THAN 6 IN. FROM FIXTURE CORNERS. FIXTURES WHICH ARE SMALLER THAN CEILING GRID SHALL BE CENTERED IN ACoustICAL CEILING PANEL AND SUPPORTED BY AT LEAST TWO (2) 3/4 IN. METAL CHANNELS SPANNING AND SECURED TO CEILING SYSTEM GRID TEES. FIXTURES WHICH LAY-IN CEILING GRID SYSTEM SHALL BE SECURED IN PLACE BY CEILING SYSTEM GRID TEES. SUPPORT SURFACE MOUNT FIXTURES TO CEILING GRID TEES. SUPPORT SURFACE MOUNT FIXTURES GREATER THAN 2 FT IN LENGTH AT A POINT IN ADDITION TO THE OUTLET BOX FIXTURE STUD. UPON COMPLETION OF INSTALLATION AND JUST PRIOR TO DEMONSTRATION CLEAN AND RELAXED SYSTEMS. LAMP FIXTURES WHICH LAY-IN CEILING GRID SYSTEM SHALL BE SECURED IN PLACE BY CEILING SYSTEM GRID TEES. UPON COMPLETION OF INSTALLATION, DEMONSTRATE CAPABILITY AND COMPLIANCE WITH REQUIREMENTS. WHERE POSSIBLE, CORRECT MALFUNCTIONING FIXTURES AT THE SITE, THEN RETEST TO DEMONSTRATE COMPLIANCE; OTHERWISE, REMOVE MALFUNCTIONING UNITS AND REPLACE WITH NEW UNITS AND PROCEED WITH RETESTING.

SCOPE OF WORK
APPLICATION FILE TO PROPOSE:
- PROPOSE INTERIOR RENOVATION ON EXISTING COMMERCIAL SPACE.

OWNER:

No.	Revision	Date

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To the best of my knowledge, belief and professional judgment, these plans and specifications are in compliance with the energy conservation code of New York City "NYCECC 2020."

It is a violation of the New York State Education Law - article 145/ subsection 7209 for any person, unless acting under the direction of a licensed professional engineer to alter any item on these drawings.

PROJECT :
85 AVENUE D,
MANHATTAN, NY 10009

Block: 376
Lot: 7501
Zoning: R8A/C1-5
Map: 12C

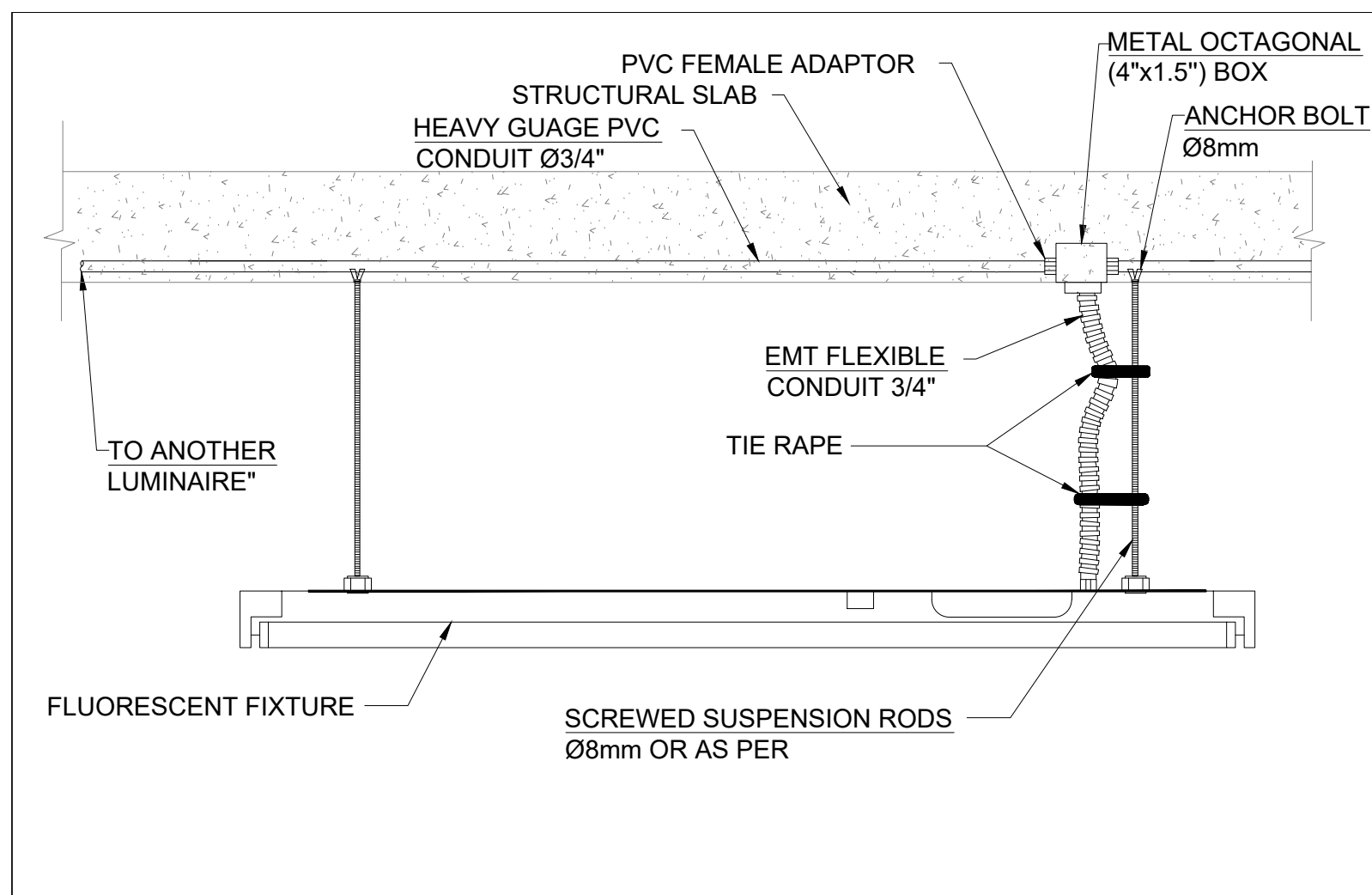
DRAWING TITLE:
ELECTRICAL NOTES.

SEAL & SIGNATURE

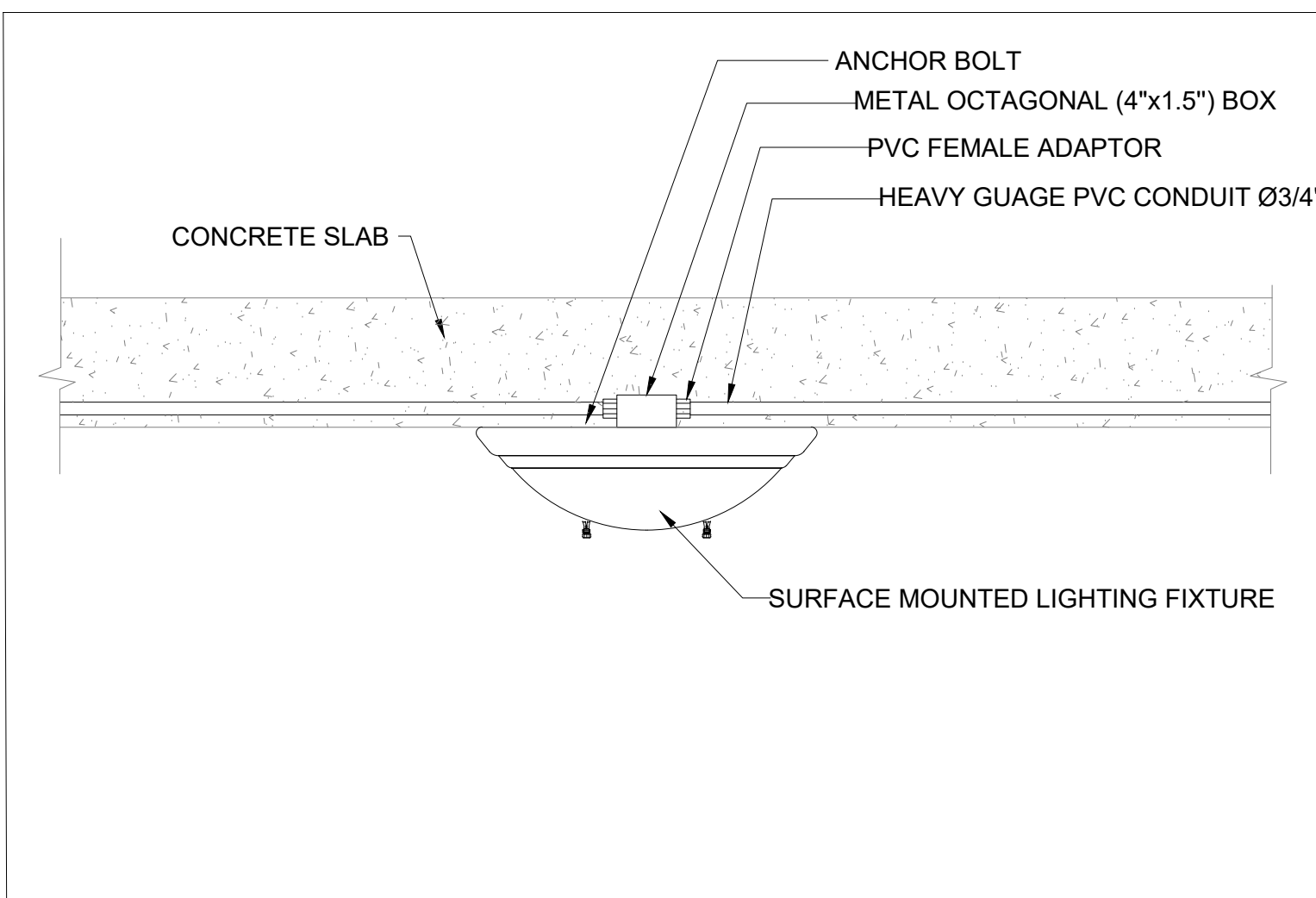
DATE: 01/26/2023
PROJECT NO.
DRAWN BY: J-GOMEZ
CHK BY:
Drawing NO.

E-006.00
Sheet 6 of 10

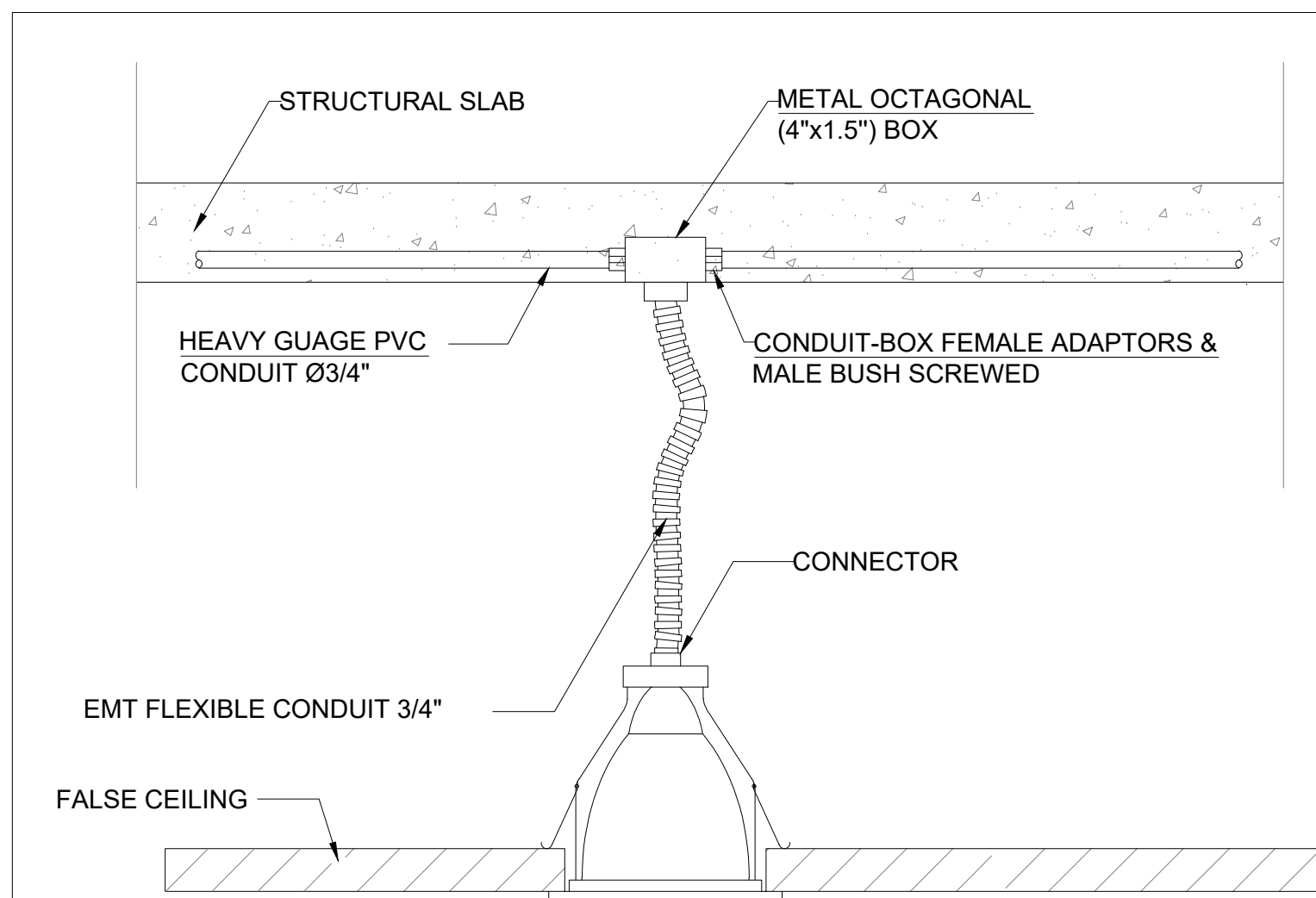
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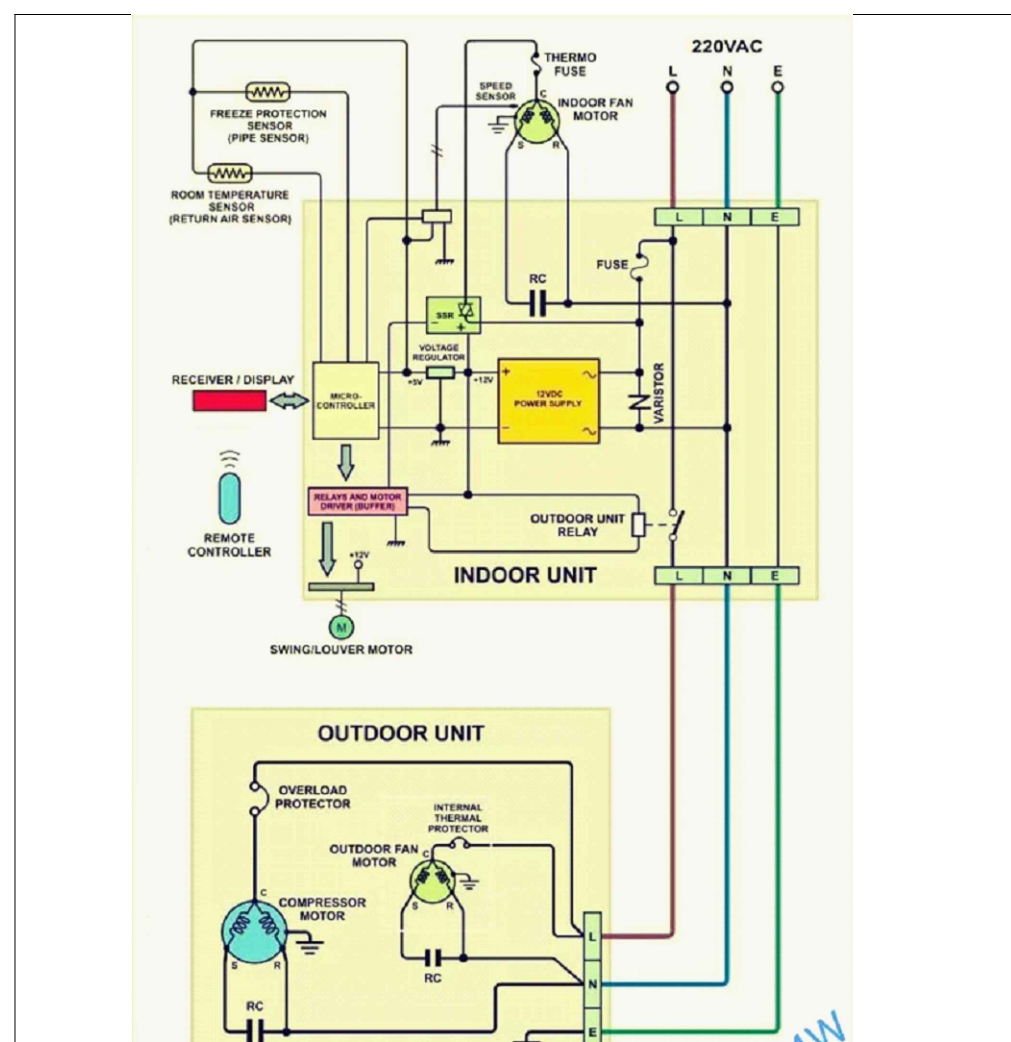
NO. 01 SUSPENDED MOUNTED LUMINARIES



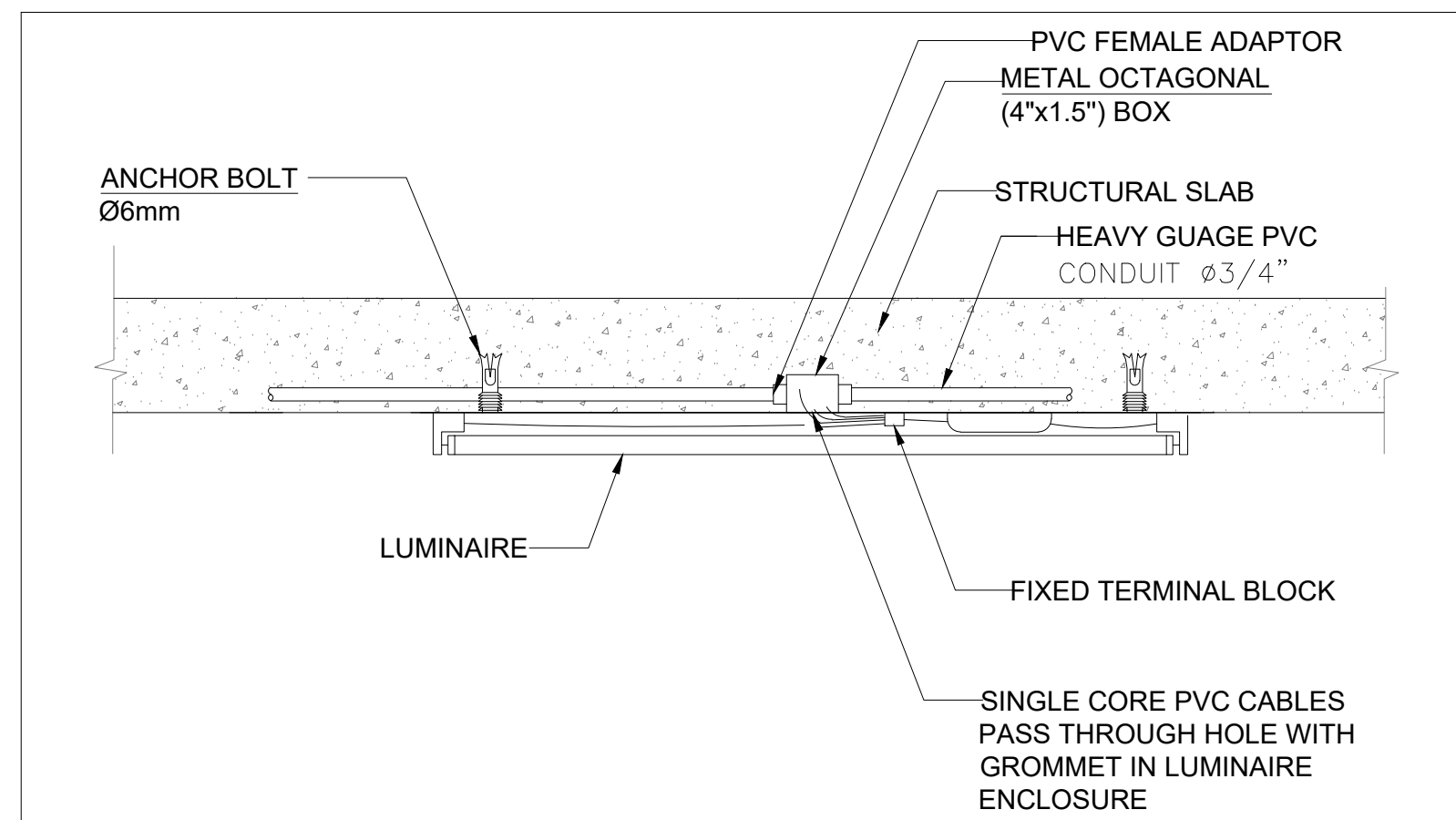
NO. 02 SURFACE MOUNTED LUMINARIES



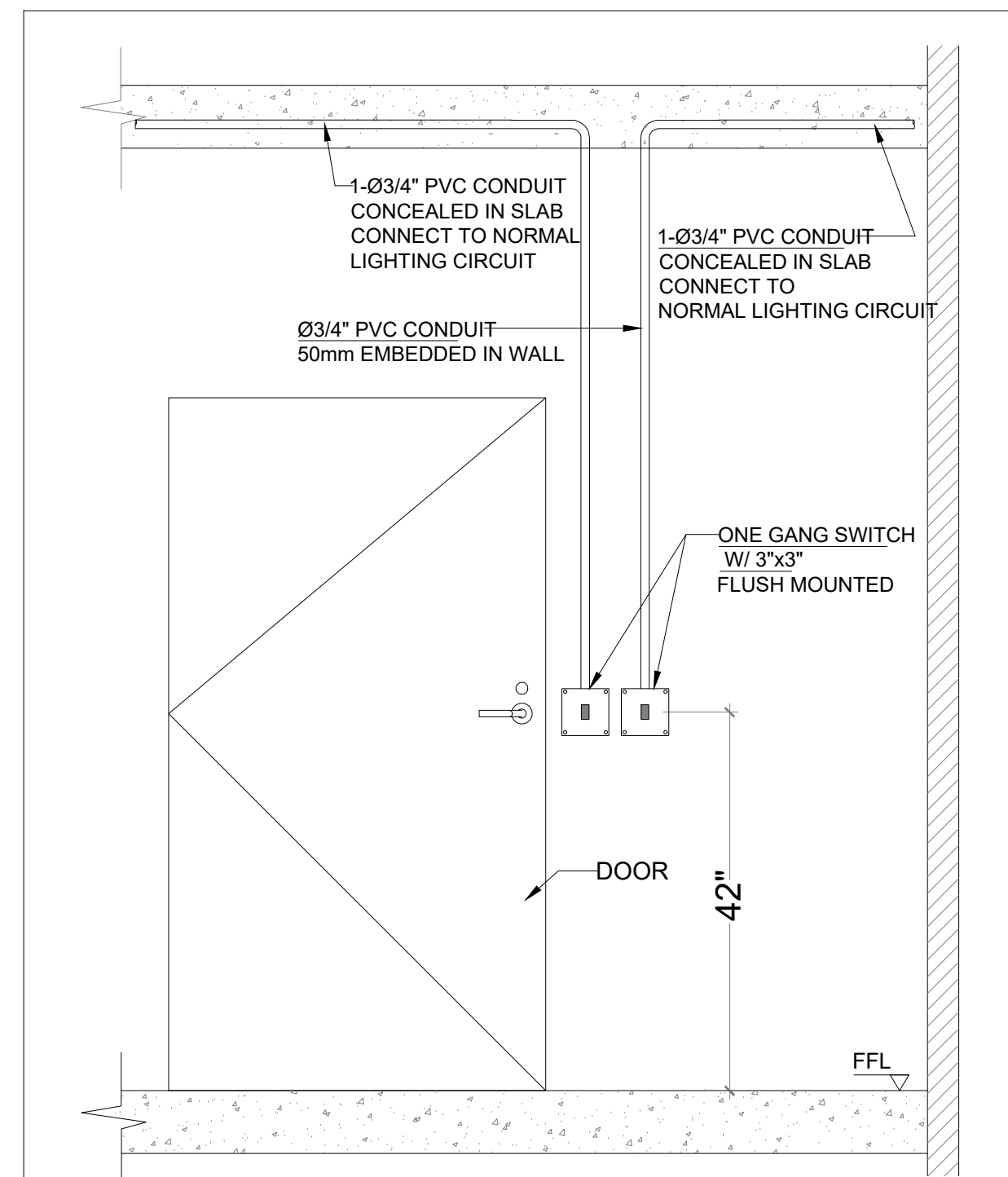
NO. 03 RECESSED DOWN LIGHT LIGHTING FIXTURES



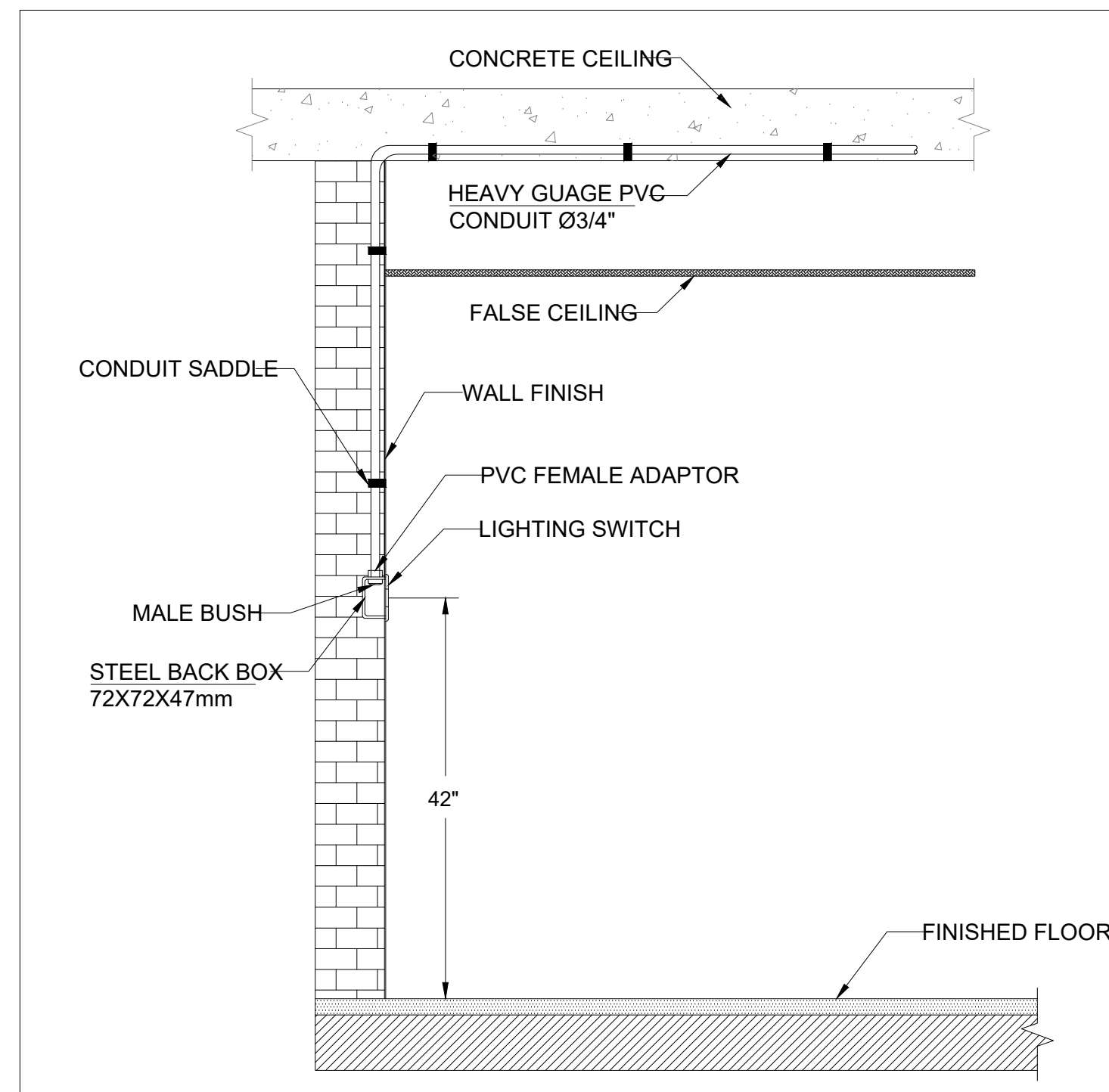
NO. 08 DET. FOR HVAC UNITS CONNECTIONS



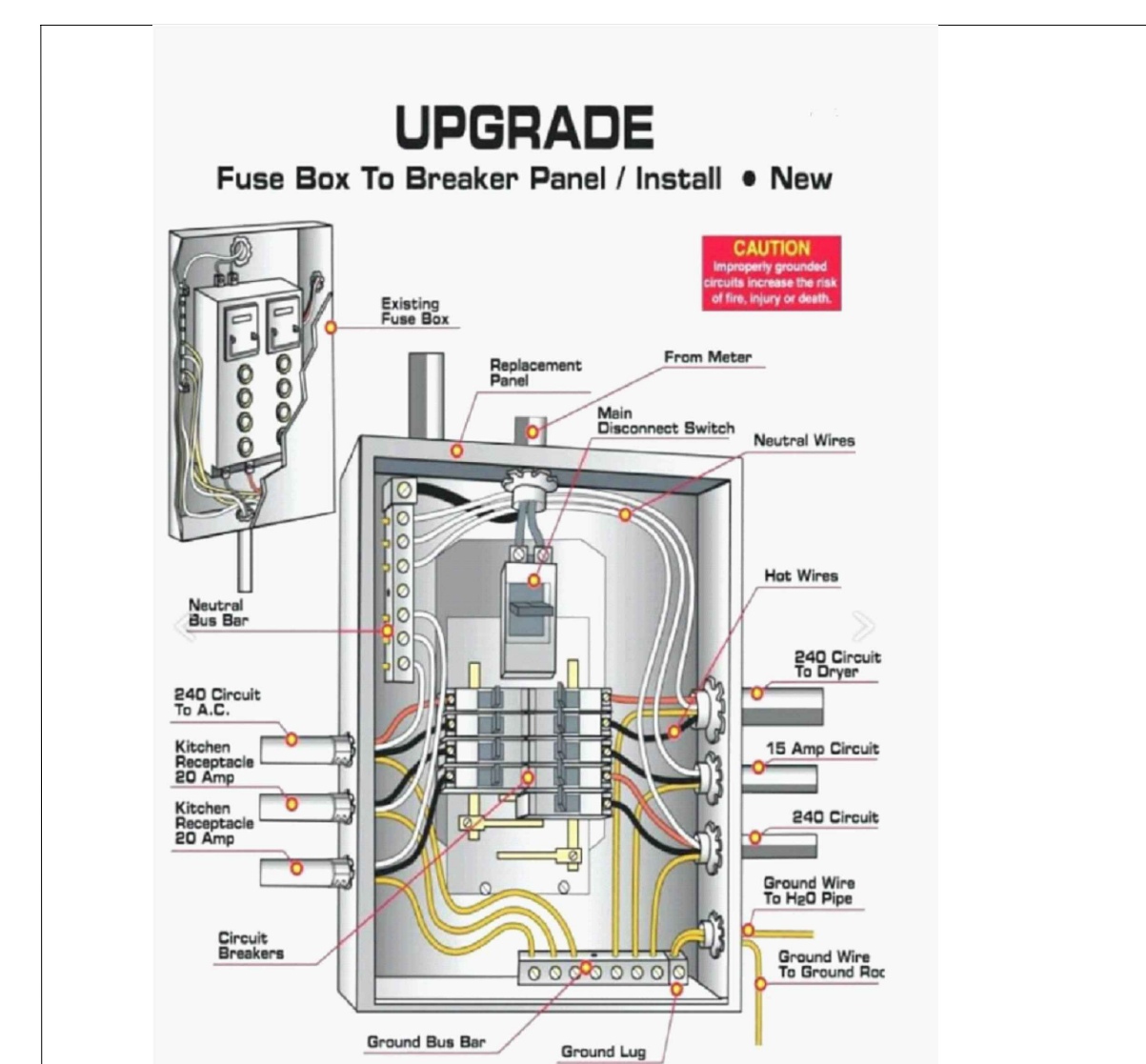
NO. 04 SURFACE MOUNTED LUMINARIES



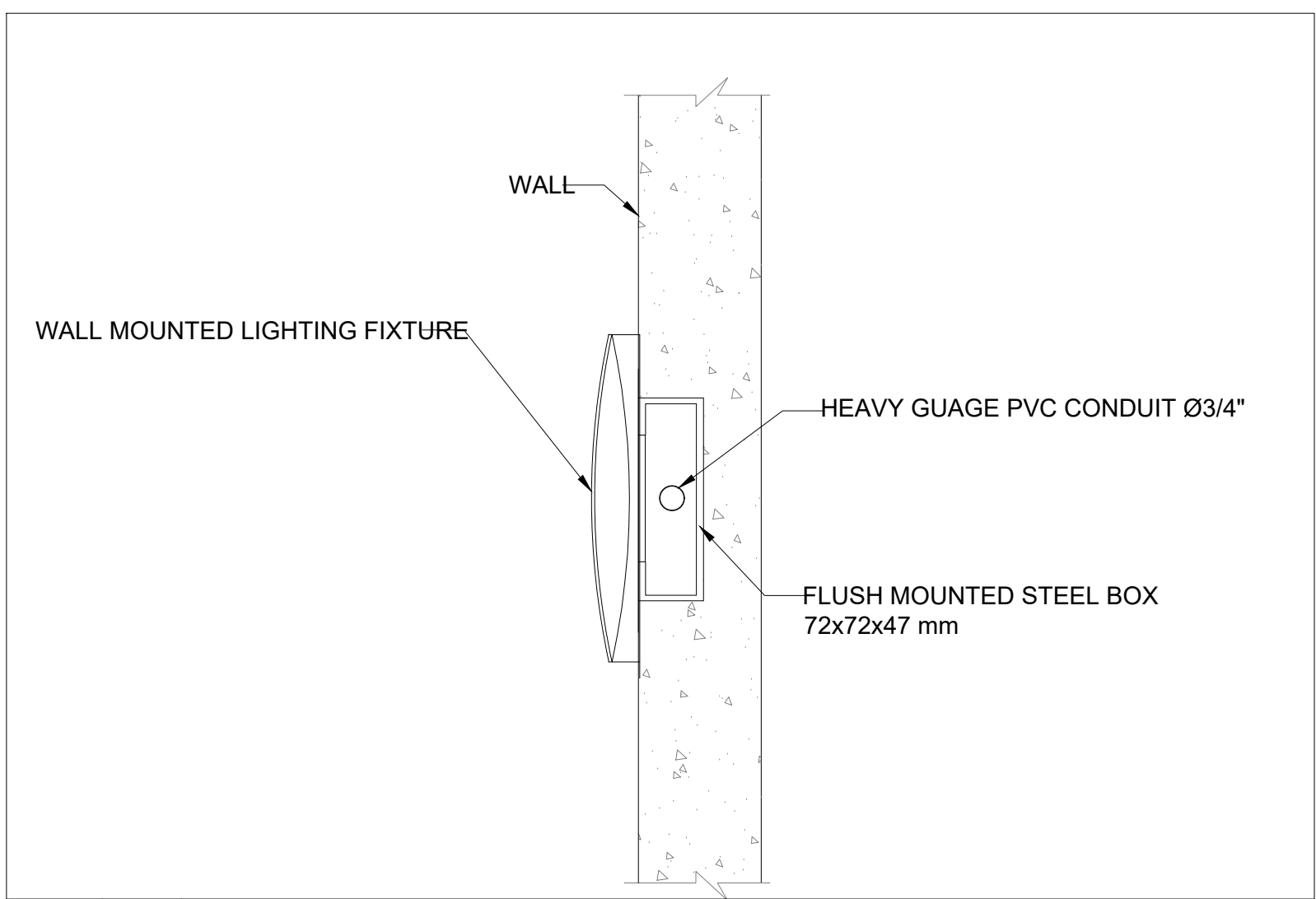
NO. 06 FRONT VIEW LIGHTING SWITCH INSTALLATION



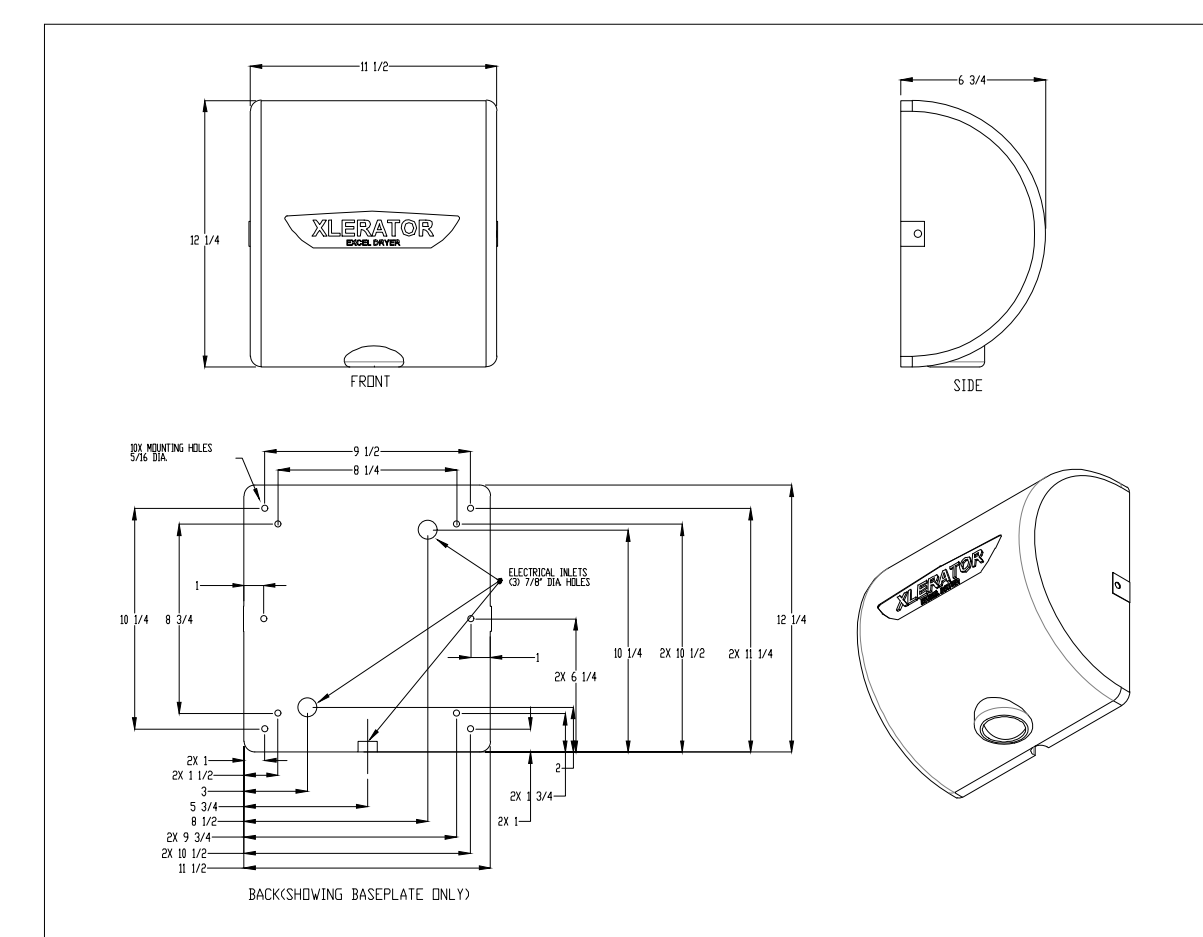
NO. 07 SIDE VIEW LIGHTING SWITCH INSTALLATION



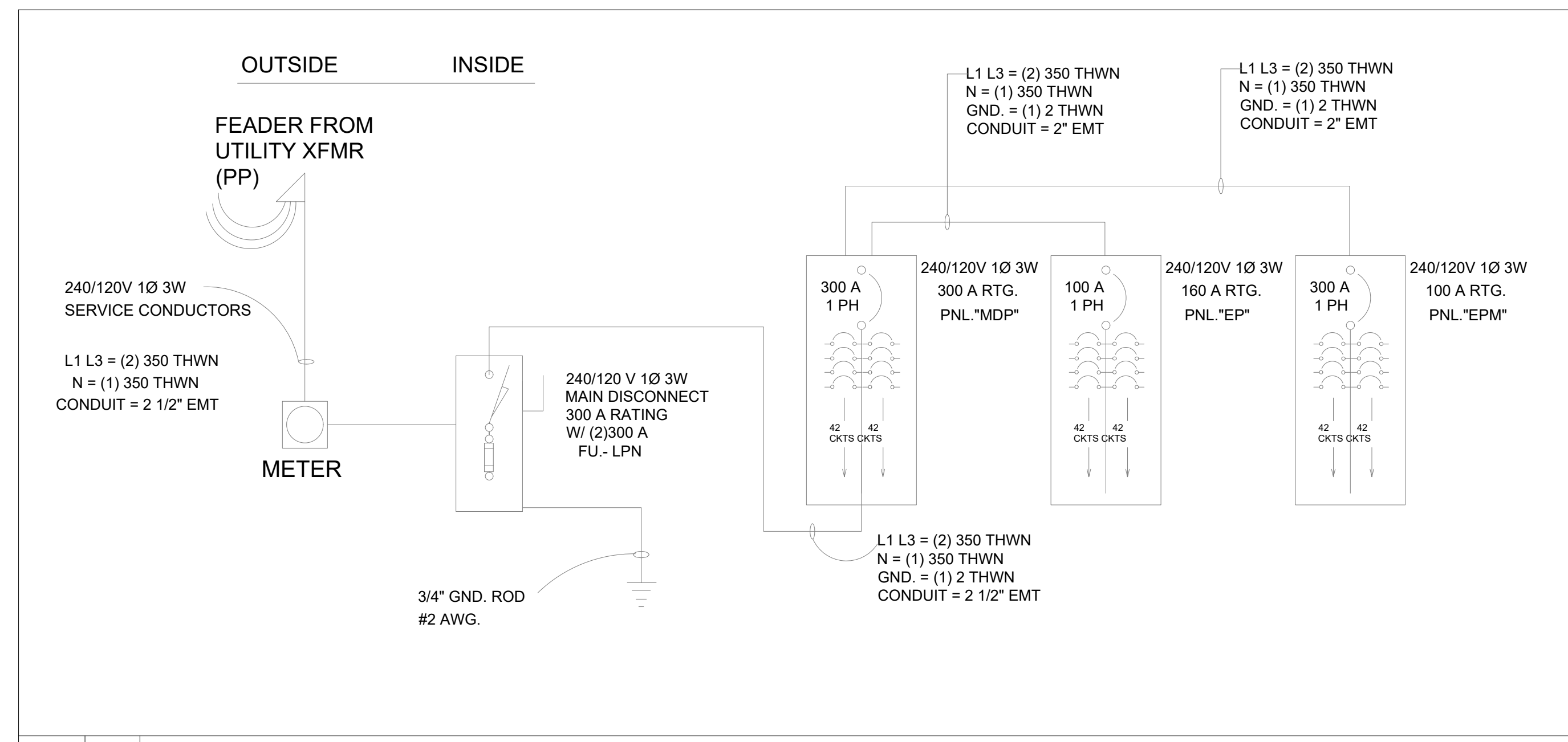
NO. 09 DETAILS FOR ELECTRICAL PANELS



NO. 05 FLUSH MOUNTED LIGHTING FIXTURES ON ROOF



NO 10. DETAILS FOR HAND DRYERS



NO. 10 SINGLE LINE DIAGRAM

SCOPE OF WORK

APPLICATION FILE TO PROPOSE:
- PROPOSE INTERIOR RENOVATION ON EXISTING COMMERCIAL SPACE.

OWNER:

No. Revision Date

JOSE L. PENA, P.E.

441 MAXWELL STREET
WEST HEMPSTEAD, NY 11552
TEL.: 917-456-2372
JOSE@PENAFIG.ORG

To the best of my knowledge, belief and professional judgment, these plans and specifications are in compliance with the energy conservation code of New York City "NYCECC 2020."

It is a violation of the New York State Education Law - article 145/ subsection 7209 for any person, unless acting under the direction of a licensed professional engineer to alter any item on these drawings.

PROJECT :
85 AVENUE D,
MANHATTAN, NY 10009

Block: 376
Lot: 7501
Zoning: R8A/C1-5
Map: 12C

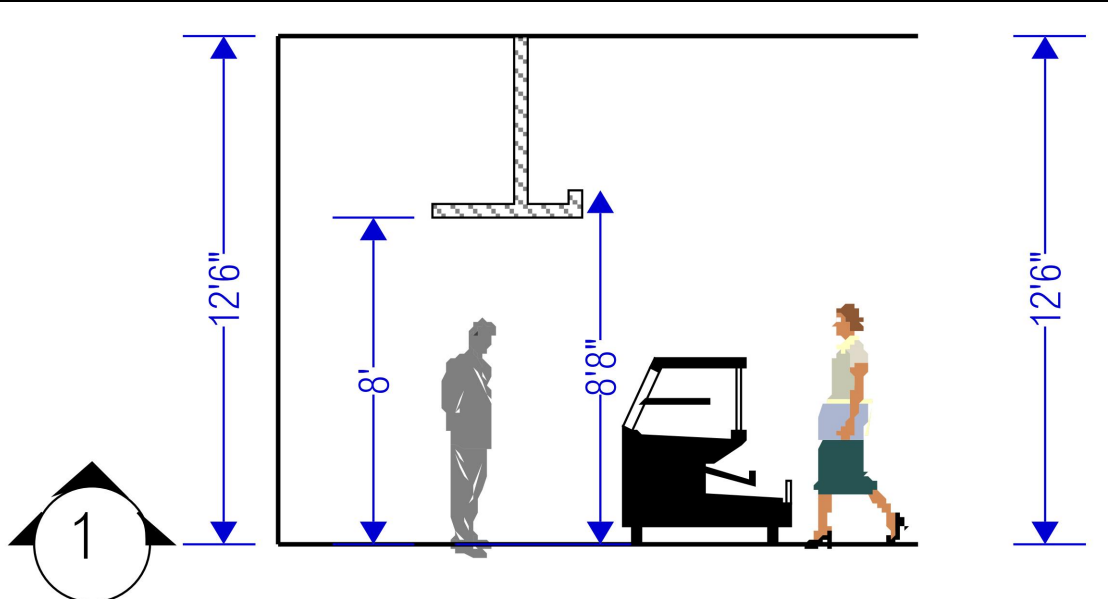
DRAWING TITLE:
ELECTRICAL NOTES.

SEAL & SIGNATURE

DATE: 01/26/2023
PROJECT NO.
DRAWN BY J-GOMEZ
CHK BY:
Drawing NO.

E-007.00
Sheet 7.01.10

JOB NO.:



Shenzhen Yuchen Lighting Technology Co., Ltd
 HZ Lighting Technology (HK) Co., Ltd.
 701 F. B. Liuhecheng, Pingshan District, Shenzhen, China
 Tel.: 86-13728007691 Website: www.hz-leditec.com

A

Features: Housing: Aluminum
 Diffuser: Milky PC
 Installation: surface mounted or hanging
 Support: seamless continuously running
 Usage: 40W
 Lumens: 5300lm
 LED: SMD2835
 Input Voltage: 120-277VAC
 Color temperature: 4000K
 Lifetime: 50,000hours
 LED Driver: ETL listed
 Surface mounted screws 1pc mini connector
 for seamless continuously running
 Type: 1M suspending cable

183 INCLUDING 10 EXTRA

B

HZ-78014-14
 Size: 1200*95*53mm
 AC100-240V
 3000K
 1000lm
 40W
 36 Degree

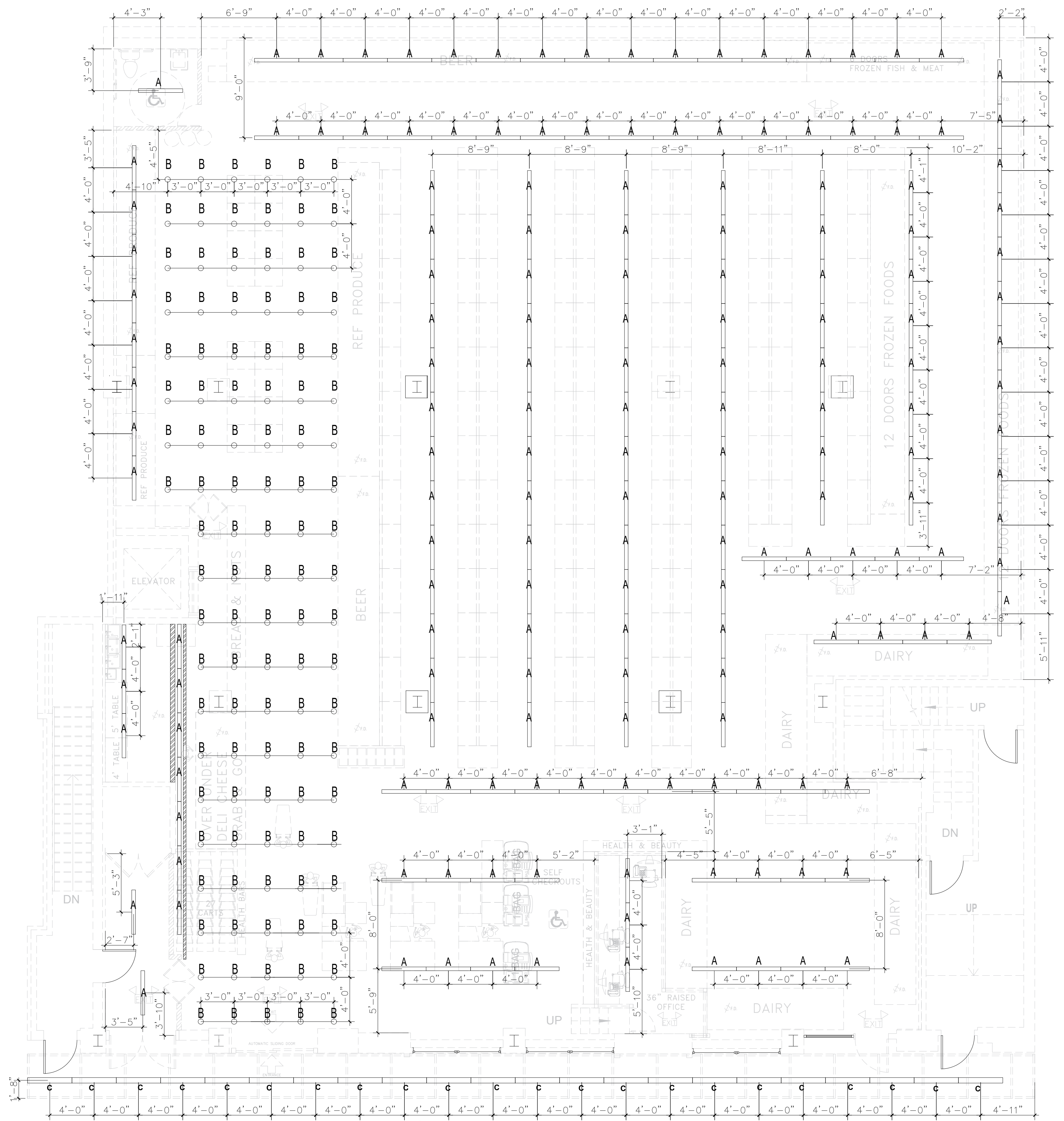
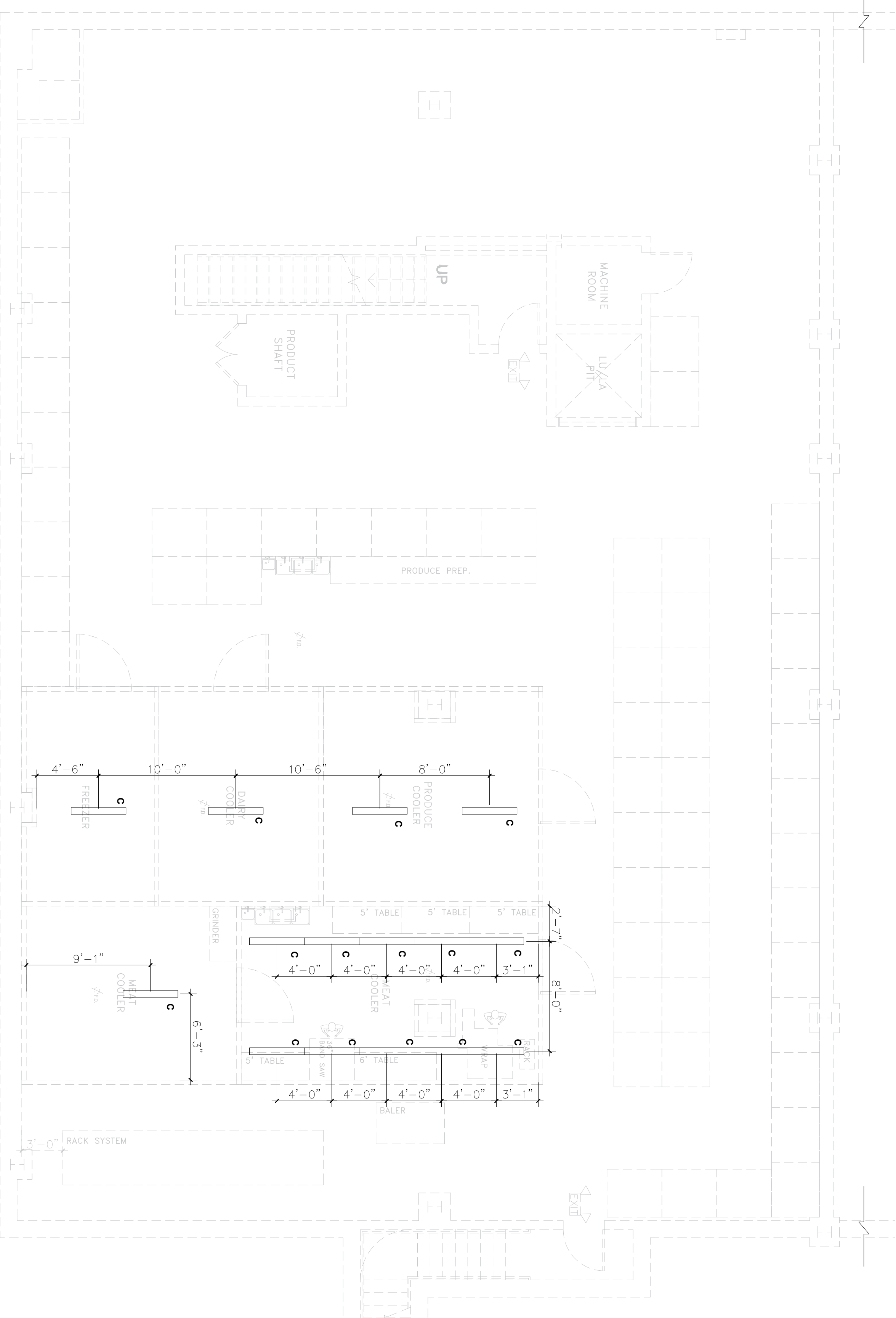
116 INCLUDING 8 EXTRA

264 TRACKS

C

LED vapor light
 size: 1200*95*53mm
 40W 5500lm 5000K
 Lumens: 5300lm

40 INCLUDING 3 EXTRA



SCOPE OF WORK

APPLICATION FILE TO PROPOSE:
 - PROPOSE INTERIOR RENOVATION ON EXISTING COMMERCIAL SPACE.

OWNER:

No.	Revision	Date

JOSE L. PENA, P.E.

441 MAXWELL STREET
 WEST HEMPSTEAD, NY 11552
 TEL.: 917-456-2372
 JOSE@PENAFIG.ORG

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PROJECT:
 85 AVENUE D,
 MANHATTAN, NY 10009

Block: 376
 Lot: 7501
 Zoning: R8A/C1-5
 Map: 12C

DRAWING TITLE:
 ELECTRICAL PLANS.

SEAL & SIGNATURE

DATE: 01/26/2023
 PROJECT NO.
 DRAWN BY J-GOMEZ
 CHK By:
 Drawing NO.

E-008.00
 Sheet 8.01.10

JOB NO.:

PART 1 - GENERAL

1.01 GENERAL REQUIREMENTS:
B. INSTALL ALL NEW WORK IN A NEAT WORKMANLIKE MANNER READILY ACCESSIBLE FOR OPERATION, MAINTENANCE AND

C. CODES, PERMITS AND INSPECTIONS:

1. ALL WORK SHALL COMPLY WITH REQUIREMENTS OF NYC BUILDING CODE, NYC BUILDING DEPARTMENT, BUILDING MANAGEMENT, AND ALL AUTHORITIES HAVING JURISDICTION AND APPLICABLE NATIONAL, STATE AND LOCAL CODES, LAWS AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK SHALL BE INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS. CONTRACTOR IS TO INFORM ENGINEER OF ANY EXISTING WORK OR MATERIALS WHICH VIOLATE ANY OF THE ABOVE LAWS AND REGULATIONS. ANY WORK DONE BY THE CONTRACTOR CAUSING SUCH VIOLATION SHALL BE CORRECTED AT CONTRACTOR'S EXPENSE BY THIS CONTRACTOR AND AT NO EXPENSE TO THE OWNER.

THIS CONTRACTOR SHALL PROCURE THE SERVICES OF A THIRD PARTY INSPECTION COMPANY TO PERFORM ALL SPECIAL INSPECTIONS IN ACCORDANCE WITH THE NEW YORK CITY BUILDING CODE. SECURE ALL REQUIRED PERMITS AND APPROVALS AND TRANSMIT SAME TO THE OWNER. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FEES

3. ALL APPLICABLE EQUIPMENT SHALL HAVE AN "M.E.A. OR B.S.A. NUMBER."

D. SITE VERIFICATION:

1. PRIOR TO SUBMISSION OF THE BID, THIS CONTRACTOR SHALL VISIT THE JOB SITE TO ASCERTAIN THE ACTUAL FIELD CONDITIONS AS THEY RELATE TO THE WORK INDICATED ON THE DRAWINGS AND DESCRIBED HEREIN. DISCREPANCIES, IF ANY, SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO SUBMISSION OF THE BID, AND IF NOT RESOLVED TO SATISFACTION, SHALL BE SUBMITTED AS A WRITTEN QUALIFICATION OF THE BID. SUBMISSION OF A BID SHALL BE EVIDENCE OF SITE VERIFICATION HAS BEEN PERFORMED AS DESCRIBED ABOVE.

E. CONTRACT DOCUMENTS:

2. PRIOR TO SUBMISSION OF A FORMAL BID, THIS CONTRACTOR SHALL REVIEW ALL DRAWINGS OF THE ENTIRE PROJECT INCLUDING GENERAL CONSTRUCTION, DEMOLITION, ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND SPRINKLER AND SHALL INCLUDE ANY WORK REQUIRED IN THE BID WHICH IS INDICATED OR IMPLIED TO BE PERFORMED BY THIS TRADE IN OTHER SECTIONS OF THE WORK.

3. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF WORK AND APPROXIMATE LOCATION OF EQUIPMENT. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS AND COORDINATE FINAL LOCATIONS OF DIFFUSERS, GRILLES, REGISTERS, THERMOSTATS, SENSORS, SWITCHES AND ANY WALL MOUNTED DEVICES. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID CONFLICT.

4. IF A CONFLICT OCCURS IN THE SPECIFICATIONS AND/OR ON THE DRAWINGS, THE MORE STRINGENT SITUATION SHALL APPLY.

5. ANY EQUIPMENT, PARTS, MATERIALS, ACCESSORIES, OR LABOR THAT IS NECESSARY FOR PROPER PERFORMANCE OF THE MECHANICAL WORK ALTHOUGH NOT SPECIFICALLY MENTIONED HEREIN OR SHOWN ON THE DRAWINGS, SHALL BE FURNISHED AND INSTALLED WITHOUT ADDITIONAL COSTS.

F. GUARANTEE:

6. ALL MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE OF THIS WORK. FINAL ACCEPTANCE SHALL BE DEFINED AS THE TIME AT WHICH THE MECHANICAL WORK IS TAKEN OVER AND ACCEPTED BY THE OWNER, AND IS UNDER CARE, CUSTODY AND CONTROL OF THE OWNER. ENGAGE THE SERVICES OF VARIOUS MANUFACTURERS SUPPLYING THE EQUIPMENT FOR THE PROPER STARTUP AND OPERATION OF ALL SYSTEMS INSTALLED. INSTRUCT THE OWNERS PERSONNEL IN THE PROPER OPERATION AND SERVICING OF THE SYSTEM.

7. THE CONTRACTOR SHALL GUARANTEE TO REPLACE OR REPAIR PROMPTLY AND ASSUME RESPONSIBILITY FOR ALL EXPENSES INCURRED FOR ANY WORKMANSHIP AND EQUIPMENT IN WHICH DEFECTS DEVELOP WITHIN THE GUARANTEE PERIOD. THIS WORK SHALL BE DONE AS DIRECTED BY THE OWNER. THIS GUARANTEE SHALL INCLUDE RESPONSIBILITY FOR ALL EXPENSES INCURRED IN REPAIRING AND REPLACING WORK OF OTHER TRADES AFFECTED BY DEFECTS, REPAIRS OR REPLACEMENTS IN EQUIPMENT SUPPLIED BY THIS CONTRACTOR.

8. THIS CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE AND OPERATION OF ALL SYSTEMS UNTIL THE FINAL ACCEPTANCE OF THE WORK.

9. ALL AIR CONDITIONING UNIT COMPRESSORS AND REFRIGERATION COMPONENTS SHALL HAVE A 5-YEAR WARRANTY.

10. THE "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION" AIA DOCUMENT A201, LATEST EDITION, OR AS REQUIRED BY THE ARCHITECT DOCUMENTS, AND/OR THE STRUCTURAL ENGINEER'S DOCUMENTS, AS APPLICABLE, ARE PART OF THIS CONTRACT.

G. DEFINITIONS:

10. MECHANICAL CONTRACTOR - "THIS CONTRACTOR" - THE PARTY OR PARTIES HAVE BEEN DULY AWARDED THE CONTRACT FOR AND ARE THEREBY MADE RESPONSIBLE FOR THE MECHANICAL WORK AS DESCRIBED HEREIN.

11. "THIS CONTRACT", "THE CONTRACT", "THE AGREEMENT COVERING THE WORK TO BE PERFORMED BY THIS CONTRACTOR".

12. "APPROVED", "EQUAL", "SATISFACTORY", "ACCEPTED", "ACCEPTABLE", "EQUIVALENT", "SUITABLE FOR USE ON THE PROJECT, AS DETERMINED BY THE ENGINEER BASED ON DOCUMENTS PRESENTED FOR SUCH DETERMINATION.

13. "THESE SPECIFICATIONS", "THIS SECTION, PART, DIVISION" (OF THE SPECIFICATION) - THE DOCUMENT SPECIFYING THE WORK TO BE PERFORMED BY THIS CONTRACTOR".

14. "THE MECHANICAL WORK", "THIS WORK" - ALL LABOR MATERIALS, EQUIPMENT, APPARATUS, CONTROLS, ACCESSORIES, AND OTHER ITEMS REQUIRED FOR A PROPER AND COMPLETE INSTALLATION BY THE MECHANICAL CONTRACTOR.

15. "ARCHITECT", "ENGINEER", "OWNER'S REPRESENTATIVE" - THE PARTY OR PARTIES RESPONSIBLE FOR INTERPRETING, ACCEPTING AND OTHERWISE RULING ON THE PERFORMANCE UNDER THIS CONTRACT.

16. "FURNISH" - PURCHASE AND DELIVER TO THE PROJECT SITE COMPLETE WITH EVERY NECESSARY APPURTENANCE AND SUPPORT, ALL AS PART OF THE MECHANICAL WORK.

17. "INSTALL" - UNLOAD AT THE DELIVERY POINT AT THE SITE AND PERFORM EVERY OPERATION NECESSARY TO ESTABLISH SECURE MOUNTING INSTALLATION AND CORRECT OPERATION AT THE PROPER LOCATION IN THE PROJECT, ALL AS PART OF THE MECHANICAL WORK.

18. "PROVIDE" - "FURNISH" AND "INSTALL".

19. "NEW" - MANUFACTURED WITHIN THE PAST TWO YEARS AND NEVER BEFORE USED.

20. "RELOCATE" - MOVE EXISTING EQUIPMENT AND ALL ACCESSORIES AS REQUIRED.

21. "REMOVE" - DISMANTLE AND CART AWAY FROM SITE INCLUDING ALL RELATED ACCESSORIES. ALL ITEMS SHALL BE LEGALLY DISPOSED OF. ALL OTHER EQUIPMENT AND OPERATIONS IN ANY WAY EFFECTED BY THE REMOVAL IS TO REMAIN IN FULL OPERATION. PROVIDE ALL NECESSARY COMPONENTS TO MAINTAIN SUCH OPERATION.

1.02 SCOPE OF WORK

A. PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, AND CONTRACTOR'S SERVICES NECESSARY FOR COMPLETE, SAFE INSTALLATION OF ALL MECHANICAL WORK. THE SCOPE OF WORK SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING:

- 1. DEMOLITION AND REMOVAL OF ITEMS AS REQUIRED.
2. DUCTWORK AND DUCTWORK ACCESSORIES.
3. AIR DISTRIBUTION SYSTEM (AIR OUTLETS, ETC.).
4. PIPING AND PIPING ACCESSORIES INCLUDING ALL VALVING.
5. EQUIPMENT (PUMPS, AIR CONDITIONING UNITS, FANS, VFDs, ETC.)
6. INSULATION OF PIPING, EQUIPMENT AND DUCTWORK.
7. SOUND ATTENUATORS AND SOUND LINING.
8. AUTOMATIC TEMPERATURE CONTROLS.
9. TESTING AND BALANCING.
10. CUTTING AND PATCHING.
11. SHOP DRAWINGS.
12. AS-BUILT DRAWINGS.
13. OPERATING AND MAINTENANCE MANUALS.
14. FULL COORDINATION WITH OTHER TRADES.
15. WARRANTY AND GUARANTY.
16. PHASING AS REQUIRED BY OWNER, CONSTRUCTION MANAGER, GENERAL CONTRACTOR OR BUILDING MANAGEMENT.
17. PREMIUM TIME FOR WORK TO BE PERFORMED AFTER-HOURS AS REQUIRED BY BUILDING MANAGEMENT AND/OR OWNER.
18. FILING, PERMITS, CONTROLLED INSPECTIONS.
19. FULL TESTING AND STARTUP OF ALL SYSTEMS.

B. SECURE CERTIFICATES, PAY ALL FEES AND CHARGES FOR ALL WORK INSTALLED, CERTIFYING COMPLIANCE WITH ALL AUTHORITIES AND ARTICLES 27-132 (C26-106.3), 27-778 (C26-1301.1), 27-779 (C26-1301.2), 27-780 (C26-1301.3), 27-781 (C26-1301.4). CONTRACTOR TO PERFORM REQUIRED CONTROLLED INSPECTION AND OBTAIN ALL EQUIPMENT USE PERMITS. DELIVER CERTIFICATES TO OWNER FOR SIGNING BEFORE FILING.

1.03 COORDINATION WITH BUILDING MANAGEMENT

A. THIS CONTRACTOR IS TO OBTAIN A COPY OF THE BUILDING RULES AND REGULATIONS PRIOR TO BID SUBMISSION TO DETERMINE REQUIREMENTS AND THE EXTENT OF PREMIUM TIME WORK REQUIRED BY BUILDING.

B. THIS CONTRACTOR IS RESPONSIBLE FOR ADHERING TO THE BUILDING OWNER'S RULES AND REGULATIONS. ANY DISCREPANCIES BETWEEN THE CONTRACT DOCUMENTS AND THE BUILDING RULES AND REGULATIONS SHALL BE SUBMITTED IN WRITING TO THE ARCHITECT/ENGINEER FOR REVIEW, WITH BID SUBMISSION.

C. COORDINATE WITH BUILDING OWNER FOR ANY SERVICE INTERRUPTION OF EXISTING SYSTEMS AND GIVE NOTICE AS REQUIRED BY BUILDING RULES AND REGULATIONS OR A MINIMUM OF TWO (2) DAYS PRIOR TO ANY WORK, WHICHEVER IS MORE STRINGENT. CONTRACTOR IS TO PERFORM WORK ON PREMIUM TIME, IF SO DIRECTED BY BUILDING OWNER, SO AS NOT TO DISTURB EXISTING TENANTS ON OTHER FLOORS.

1.04 SHOP DRAWINGS

A. SUBMIT SHOP DRAWINGS CERTIFIED BY ALL TRADES THAT COORDINATION HAS BEEN COMPLETED. SUBMIT ALL CERTIFIED EQUIPMENT CUTS WITH CONSTRUCTION WIRING DIAGRAMS AND AUTOMATIC TEMPERATURE CONTROL REQUIREMENTS. SHOP DRAWINGS SUBMISSION SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING:

- 1. DUCTWORK - PROVIDE DUCT SHOP STANDARDS AND LEAKAGE TEST CERTIFICATION, AS REQUIRED, AND 3/8 SCALE DUCT LAYOUT.
2. PIPING LAYOUT AND APPURTENANCES - PROVIDE PIPING, VALVING, CHEMICAL TREATMENT, SHOP STANDARDS AND 3/8 SCALE PIPING LAYOUT WITH ALL VALVING.
3. INSULATION FOR DUCTWORK, PIPING AND EQUIPMENT.
4. CERTIFIED AIR AND WATER BALANCING REPORT
5. EQUIPMENT CATALOG CUTS FOR ALL ITEMS TO BE UTILIZED ON PROJECT (FANS, PUMPS, AC UNITS, VARIABLE FREQUENCY DRIVES, ETC.)
6. AIR OUTLETS (DIFFUSERS, REGISTERS, GRILLES, ETC.)
7. AUTOMATIC TEMPERATURE CONTROL DIAGRAMS, DEVICES AND SEQUENCE OF OPERATION
8. AS-BUILT DRAWINGS AT PROJECT COMPLETION OF THE INSTALLED CONDITION OF WORK.

B. THE QUANTITY OF SHOP DRAWINGS SHALL AS A MINIMUM BE FOUR (4) COPIES OF 8-1/2"x11" SUBMISSIONS AND ONE (1) REPRODUCIBLE AND ONE (1) PRINT OF ALL DRAWINGS. SPECIFIC JOB REQUIREMENTS MAY BE MORE STRINGENT AND CONTRACTOR IS RESPONSIBLE TO OBTAIN REQUIREMENTS FROM CONSTRUCTION MANAGER, GENERAL CONTRACTOR OR ARCHITECT.

1.05 MAINTENANCE MANUALS

A. SUBMIT FOUR (4) LOOSE-LEAF BOUND OPERATING AND MAINTENANCE MANUALS WITH INDEX AND INDEX TABS TO INCLUDE THE FOLLOWING:

- 1. OPERATING AND MAINTENANCE INSTRUCTIONS ON ALL SYSTEMS.
2. MANUFACTURERS' CATALOG CUTS ON ALL EQUIPMENT.
3. AUTOMATIC TEMPERATURE CONTROL SYSTEMS WITH SEQUENCE OF OPERATIONS, CATALOG CUTS OF ALL DEVICES AND POINT-TO-POINT WIRING DIAGRAMS.
4. CERTIFIED FINAL AIR AND WATER BALANCING REPORT.
5. DUCT AND PIPING AS-BUILT DRAWINGS WITH VALVE CHART AND KEY PLAN DRAWINGS INSERTED IN BINDER.

1.06 AS-BUILT DRAWINGS

A. CONTRACTOR SHALL MAINTAIN RECORD DRAWING PRINTS ON JOB SITE AND RECORD, AT TIME OF OCCURRENCE, DEVIATIONS FROM CONTRACT DOCUMENTS DUE TO FIELD COORDINATION, BULLETINS, OR ADDENDA.

B. CONTRACTOR SHALL REVISE SHOP DRAWINGS TO CONFORM TO RECORD DRAWINGS AND SUBMIT AN AS-BUILT CONDITION (PIPING AND DUCTWORK) DRAWINGS UPON COMPLETION OF THE PROJECT. FINAL SUBMISSION OF REPRODUCIBLE AS-BUILT DRAWINGS ARE TO BE SIGNED AND CERTIFIED BY INSTALLING CONTRACTOR THAT THIS IS THE AS-BUILT CONDITION OF THE WORK.

1.07 SERVICE AND WARRANTY (MAINTENANCE CONTRACT)

A. THIS CONTRACTOR SHALL PROVIDE AS AN ADD ALTERNATE PRICE, A FULL ONE YEAR SERVICE AND WARRANTY OF ALL MECHANICAL COMPONENTS AND SYSTEMS, WITH PRICES FOR YEARS 2, 3 AND 4 FOLLOWING THIS FIRST YEAR. AT THE TIME OF ACCEPTANCE OF PROJECT, THE TENANT OR OWNER'S REPRESENTATIVE WILL DECIDE TO ACCEPT WHICH ALTERNATE, IF ANY.

1.08 SUBSTITUTIONS

A. NO SUBSTITUTE MATERIAL OR MANUFACTURER OF EQUIPMENT SHALL BE PERMITTED WITHOUT A FORMAL WRITTEN SUBMITTAL TO THE ENGINEER WHICH INCLUDES ALL DIMENSIONAL, PERFORMANCE AND MATERIAL SPECIFICATIONS. ANY CHANGES IN LAYOUT, ELECTRICAL CHARACTERISTICS, STRUCTURAL REQUIREMENTS, OR DESIGN DUE TO THE USE OF A SUBSTITUTION SHALL BE SUBMITTED TO THE ENGINEER AS PART OF THIS PROPOSAL. THE CONTRACTOR TAKES FULL RESPONSIBILITY FOR THE SUBSTITUTION AND ALL CHANGES RESULTING FROM SUBSTITUTION. ALL ITEMS SHALL BE SUBMITTED FOR REVIEW IN CONJUNCTION WITH THE SUBMITTAL OF THE SUBSTITUTION. ANY SUBSTITUTION MUST BE SUBMITTED WITH AN EXPLANATION WHY A SUBSTITUTION IS BEING UTILIZED. IF THE SUBSTITUTED ITEM DEVIATES FROM THE SPECIFIED ITEM, THOSE DEVIATIONS ARE TO BE IDENTIFIED ON A LINE BY LINE BASIS. IF THE SUBSTITUTE IS BEING UTILIZED FOR FINANCIAL REASONS, THE ASSOCIATED CREDIT MUST BE SIMULTANEOUSLY SUBMITTED.

B. ALL SUBSTITUTED EQUIPMENT SHALL CONFORM TO SPACE REQUIREMENTS AND PERFORMANCE REQUIREMENTS SHOWN ON CONTRACT DOCUMENTS. CONTRACTOR SHALL REPLACE ANY EQUIPMENT THAT DOES NOT MEET THESE REQUIREMENTS AT HIS OWN EXPENSE. ANY MODIFICATIONS TO ASSOCIATED SYSTEMS OR ADDITIONAL COSTS ATTRIBUTED TO THIS SUBSTITUTION SHALL BE AT THIS CONTRACTOR'S EXPENSE.

C. CONTRACTOR SHALL SUBMIT BID BASED ON SPECIFIED ITEMS AND SHALL SUPPLY AS AN ALTERNATE PRICE ANY SUBSTITUTIONS.

1.09 ACCESS DOORS IN GENERAL CONSTRUCTION

A. THIS CONTRACTOR SHALL SUBMIT TO THE ARCHITECT FOR APPROVAL A PLAN INDICATING THE SIZE AND LOCATION OF ALL ACCESS DOORS REQUIRED FOR OPERATION AND MAINTENANCE OF ALL CONCEALED EQUIPMENT, DEVICES, VALVES, DAMPERS AND CONTROLS. CONTRACTOR SHALL ARRANGE FOR FURNISHING AND INSTALLATION OF A

SIZE TO PROVIDE ACCESS TO CONCEALED ITEMS FOR OPERATIONS AND MAINTENANCE, WITH A MINIMUM SIZE OF 18"x18".

PART 2 - PRODUCTS/APPLICATIONS

2.01 DUCTWORK AND ACCESSORIES

A. ALL DUCTWORK SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE, 1995 OR LATEST EDITION, SMACNA HVAC AIR DUCT LEAKAGE TEST MANUAL, 1991 OR LATEST EDITION, NFPA 90A LATEST EDITION, AND NEW YORK CITY BUILDING CODE. THE MORE STRINGENT REQUIREMENT OF ANY CODES SHALL APPLY.

SIZE CHANGES AND RELOCATIONS TO ACCOMMODATE SPACE AND STRUCTURAL CONDITIONS, OFFSETS AND TRANS- WITH SMACNA AND AS LISTED BELOW UNLESS OTHERWISE SPECIFIED OR SHOWN ON THE DRAWINGS:

- 1. 3" CLASS: ALL SUCTION AND DISCHARGE OF KITCHEN HOOD, AND SMOKE EXHAUST DUCTWORK. SEAL CLASS "B", LEAKAGE CLASS 12 (RECTANGULAR) OR CLASS 6 (ROUND).
2. 2" CLASS: ALL OTHER LOW PRESSURE DUCTWORK. SEAL CLASS "C", LEAKAGE CLASS 24 (RECTANGULAR) OR CLASS 12 (ROUND).
3. LEAKAGE TESTING

ALL TESTING SHALL BE DONE IN THE PRESENCE OF THE ENGINEER OR OWNER'S REPRESENTATIVE. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL COLLARS, CAPS, ELECTRIC POWER, ETC. NECESSARY TO PERFORM THE TESTS. THE CONTRACTOR IS ALSO RESPONSIBLE FOR SCHEDULING THE TEST NO LESS THAN THREE (3) BUSINESS DAYS PRIOR TO ITS INTENDED OCCURRENCE. LOW PRESSURE DUCTWORK (2" CLASS) SHALL BE TESTED ON AN AS-NEEDED BASIS AT THE ENGINEER'S DIRECTION. LEAKAGE TEST PROCEDURES SHALL FOLLOW THE OUTLINES AND CLASSIFICATIONS IN THE SMACNA HVAC DUCT LEAKAGE TEST MANUAL.

IF SPECIMEN FAILS TO MEET ALL NOTED LEAKAGE LEVEL, THE CONTRACTOR SHALL MODIFY TO BRING IT INTO COMPLIANCE AND SHALL RETEST IT UNTIL ACCEPTABLE LEAKAGE IS DEMONSTRATED. TESTS AND NECESSARY REPAIR SHALL BE COMPLETED PRIOR TO CONCEALMENT OF DUCTS.

E. MATERIALS:

- 1. SHEET METAL: UNLESS OTHERWISE SPECIFIED OR INDICATED, DUCTS SHALL BE CONSTRUCTED OF HOT-DIPPED GALVANIZED SHEETMETAL WITH 560 COMMERCIAL COATING ACCORDING TO ASTM 653 & A924.
2. BLACK IRON (CARBON STEEL): PROVIDE DUCTWORK OF BLACK IRON (CARBON STEEL), WHERE INDICATED. DUCTWORK SHALL BE BLACK IRON (CARBON STEEL) SHEET COMPLYING WITH ANSIASTM 415. PROVIDE FOR ALL KITCHEN EXHAUST AND FIELD FABRICATED LOW TEMPERATURE CHIMNEYS, BREECHING AND KITCHEN HOOD SYSTEMS.
3. IN WELDED CASES FOR ALL METAL DUCTWORK, THE FILLER ROD MATERIAL SHALL EQUAL OR EXCEED THE BASE METAL PROPERTIES.

4. WELDED DUCTWORK SHALL BE SEALED AIR, WATER AND GAS TIGHT.

5. FLEXIBLE CONNECTIONS AT FANS SHALL BE NEOPRENE COATED, FLAME RETARDANT GLASS FABRIC (COMPLYING WITH NFPA 90 AND 96), 30 OZ./SQ. YD. WITH SEALED AND CEMENTED SEAMS.

6. FLEXIBLE DUCTWORK SHALL NOT BE USED ON THIS PROJECT.

F. FABRICATION:

1. CONFORM TO SMACNA REQUIREMENTS FOR METAL THICKNESS, REINFORCING, JOINTS, AND SEALING FOR MAXIMUM STATIC PRESSURES INVOLVED. ALL SEAMS AND JOINTS SHALL BE SEALED AND TAPED.
2. ELBOWS SHALL CONFORM TO SMACNA REQUIREMENTS AND THE FOLLOWING:

a. PROVIDE LONG RADIUS TYPE WITH CENTERLINE RADIUS MINIMUM 1.5 TIMES DUCT WIDTH. PROVIDE SHORT RADIUS OR SQUARE ELBOWS WHERE INDICATED OR WHERE REQUIRED TO FIT RESTRICTED SPACES. PROVIDE DOUBLE THICKNESS TURNING VANES ON ALL SHORT RADIUS AND MITERED ELBOWS. CONFORM TO SMACNA FOR THE NUMBER OF VANES FOR FITTINGS.

3. BRANCH CONNECTIONS: PROVIDE 45 DEGREE ENTRY OR CONICAL TAPS. PROVIDE RADIUS TYPE FITTINGS FOR DIVIDED FLOW BRANCHES.

G. ACOUSTICALLY LINED DUCTWORK:

1. PROVIDE MAT-FACED GLASS DUCT LINER, 1-INCH THICK -2 LB/CF DENSITY. DUCT DIMENSIONS INDICATED ARE CLEAR (NET) INSIDE DIMENSIONS. FOR DUCT VELOCITIES GREATER THAN 2,000 FPM, FACE DUCTLINER WITH 24 GAUGE PERFORATED ALUMINUM OR GALVANIZED STEEL, FULLY COVERING DUCTLINER, AND SUPPORTED 12" ON CENTER. DO NOT EXTERNALLY INSULATE ACOUSTICALLY LINED DUCTWORK. CONFORM TO SMACNA REQUIREMENTS FOR INSTALLATION. PROVIDE ACOUSTICALLY LINED DUCT WHERE LISTED BELOW AND/OR SHOWN ON THE DRAWINGS:

a. ALL TRANSFER DUCTS
b. WITHIN MINIMUM 20 FEET OF ALL AC UNIT DISCHARGES
c. WITHIN MINIMUM 20 FEET OF FAN INLET AND DISCHARGES

H. DUCT ACCESS DOORS:

1. CONFORM TO SMACNA WITH PIANO HINGES, TWO SASH LOCKS AND DOOR GASKETS. SCREWED ACCESS PANELS ARE NOT PERMITTED. PROVIDE REMOVABLE ACCESS DOORS WHERE DOOR SWING CAN NOT BE ACCOMMODATED.

2. SIZE: MINIMUM 20" X 14" EXCEPT DOORS LESS THAN 16", ONE DIMENSION 20" AND THE OTHER DIMENSION, 2" LESS THAN THE DUCT WIDTH.

3. PROVIDE ACCESS DOORS: AT ENTERING AND LEAVING SIDES OF COILS IN DUCTS; AUTOMATIC DAMPERS ON LINKAGE SIDE; MANUAL VOLUME DAMPERS 2 SQ. FT. AND LARGER; FIRE DAMPERS, SMOKE DAMPERS, COMBINATION FIRE/SMOKE DAMPERS, SMOKE DETECTION HEADS, FAN BEARINGS ENCLOSED IN DUCTS. SUCTION AND DISCHARGE SIDES OF CEILING MOUNTED FANS, FAN REAR COILS, AT ALL EQUIPMENT REQUIRING ACCESS AND AS INDICATED ON DRAWINGS.

2.02 INSULATION

A. ALL INSULATION SHALL MEET THE REQUIREMENTS OF ASTM, NFPA NEW YORK STATE ENERGY CODE AND ALL AUTHORITIES HAVING JURISDICTION. ALL MECHANICAL INSULATION, (JACKETING, COVERINGS, ADHESIVES, MASTICS, FACINGS, TAPES, ETC.), SHALL HAVE RATINGS NOT EXCEEDING A "FLAME SPREAD" OF 25 OR LESS AND "SMOKE DEVELOPED" INDEX OF 50 OR LESS.

B. BEFORE APPLYING INSULATION, ALL PRESSURE AND LEAK TESTS SHALL BE COMPLETED AND APPROVED. FURNISH AND INSTALL AS PER MANUFACTURERS REQUIREMENTS.

C. INSULATION FOR FITTINGS OR ACCESSORIES REQUIRING SERVICING OR INSPECTION SHALL HAVE INSULATION REMOVABLE AND REPLACEABLE WITHOUT DAMAGE.

D. DUCT INSULATION:

1. GENERAL

a. INSULATION SHALL BE APPLIED WITH MASTICS, ADHESIVES, COATINGS, WITH COVERS, WEATHER- PROTECTION AND OTHER WORK AS REQUIRED BY MANUFACTURERS RECOMMENDATIONS. DO NOT INSULATE SOUND LINED DUCTWORK. MATERIALS SHALL MEET REQUIREMENTS OF ADHESIVE AND SEALANT COUNCIL STANDARDS AND SMACNA.

1. KITCHEN EXHAUST

a. KITCHEN EXHAUST DUCTWORK SHALL HAVE A MINIMUM INSULATION COVERING OF TWO INCHES OF CALCIUM SILICATE BLOCK, ATTACHED WITH 1" HIGH RIB COPPER STEEL LATH, FINISHED WITH TWO COATS OF CEMENT. INSURE THAT THE INSULATION EXTENDS THROUGH ALL WALL PENETRATIONS TO SEPARATE THE DUCTS FROM THE BUILDING CONSTRUCTION.

2. PROVIDE AS AN ALTERNATE FOR KITCHEN EXHAUST DUCT INSULATION

A. KITCHEN EXHAUST DUCTWORK INSULATION SHALL BE IN DIRECT CONTACT WITH THE DUCT IT ENCLOSES. PROTECT EVERY PORTION OF THE DUCT WITH NO LESS THAN TWO (2) LAYERS FOR GREASE DUCT APPLICATIONS AND TWO (2) LAYERS FOR TWO (2) HOUR AIR DUCT ENCLOSURES. OVERLAP BOTH PERIMETER AND LONGITUDINAL JOINTS WITH MINIMUM OF 3" PER LAYER OF MATERIAL. ALL KITCHEN EXHAUST DUCT HANGERS SHALL BE WRAPPED WITH FIREMASTER DUCT WRAP TO MAINTAIN A 3-HOUR RATED SUPPORT AND THE MEA LISTING.

B. ALL DUCT INSULATIONS SHALL BE IN STRICT ACCORDANCE TO MANUFACTURER'S RECOMMENDATIONS AND MEA LISTING, IN ORDER TO MAINTAIN VAPOR BARRIERS AND FIRE PROTECTION.

C. TYPE D-3: TWO (2) LAYERS OF LIGHTWEIGHT DUCTWRAP, NON-ASBESTOS, HIGH TEMPERATURE, INORGANIC, CERAMIC FIBER BLANKET TOTALLY ENCAPSULATED IN FOLIOSCRIM HAVING A SERVICE TEMPERATURE RANGE UP TO 2300 DEG.F.

D. PROVIDE AS AN ALTERNATE PANTRY EXHAUST DUCT INSULATION AS MANUFACTURED BY FIREMASTER DUCTWRAP: 3M COMPANY OR AS APPROVED.

2.03 ELECTRICAL WORK

A. GENERAL:

1. ELECTRICAL POWER WIRING SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR; CONTROL WIRING SHALL BE BY THE HVAC CONTRACTOR. CONTROL WIRING SHALL BE DEFINED AS ANY 12V, 24V, OR 120V WIRING INSTALLED FOR PURPOSES OTHER THAN PROVIDING PRIMARY ELECTRICAL POWER TO EQUIPMENT.

2. DUCT MOUNTED SMOKE DETECTORS, WHERE REQUIRED, SHALL BE PROVIDED BY AND WIRED BY THE ELECTRICAL CONTRACTOR, AND MOUNTED BY THE HVAC CONTRACTOR.

3. ALL ELECTRICAL CONTROL WIRING SHALL COMPLY WITH LOCAL ELECTRICAL CODE, ALL AUTHORITIES HAVING JURISDICTION AND THE PROJECT ELECTRICAL SPECIFICATIONS.

4. MECHANICAL CONTRACTOR TO OBTAIN QUANTITY OF CONTROLLERS REQUIRED AND COORDINATE WITH ELECTRICAL CONTRACTOR FOR ALL OPERATING REQUIREMENTS, INTERLOCKS AND CONNECTIONS FOR STARTERS.

5. THE MECHANICAL CONTRACTOR SHALL PREPARE AND SUBMIT FOR APPROVAL POINT TO POINT, COMPLETELY COORDINATED WIRING DIAGRAMS AND INDICATE ALL SOURCE POWER REQUIREMENTS AND ALL FIELD WIRING TO BE PERFORMED BY THE ELECTRICAL CONTRACTOR.

6. WHERE EXISTING STARTERS ARE TO BE REUSED, THIS CONTRACTOR SHALL MAINTAIN ALL EXISTING CONTROL CONNECTIONS, WHERE NEW STARTERS ARE TO BE PROVIDED TO REPLACE EXISTING, THIS CONTRACTOR SHALL SURVEY THE EXISTING CONTROL CONNECTIONS AND PREPARE AN EXISTING CONTROL WIRING DIAGRAM PRIOR TO DEMOLITION FOR SUBMITTAL TO THE ENGINEER. THE NEW STARTERS SHALL BE PROVIDED WITH THE NECESSARY CONTACTS AND RELAYS REQUIRED TO RECONNECT THE EXISTING CONTROLS. PROVIDE ALL REQUIRED CONTACTS FOR UNIT START/STOP AND FIRE ALARM.

B. MOTORS:

1. MOTORS SHALL HAVE THE ELECTRICAL CHARACTERISTICS AS LISTED ON THE DRAWINGS. COORDINATE ALL REQUIREMENTS WITH ELECTRICAL CONTRACTOR. ALL MOTORS SHALL COMPLY WITH NEMA MG-1 STANDARD AND SHALL BE OF THE HIGH EFFICIENCY TYPE AND MEET THE 1992 EPA ENERGY EFFICIENCY ACT AND UTILITY COMPANY REBATE REQUIREMENTS.

2. IF CONTRACTOR ELECTS TO SUBSTITUTE OR INCREASE MOTOR HORSEPOWER OVER THAT SPECIFIED, THE COST OF MOTOR AND ELECTRICAL CHANGES SHALL BE BORNE BY THIS CONTRACTOR.

C. STARTERS:

1. EACH MOTOR EXCEPT AS NOTED, SHALL BE PROVIDED WITH A COMBINATION FUSED DISCONNECT AND ACROSS-THE-LINE MAGNETIC STARTER WITH PUSH BUTTON STATIONS MOUNTED ON COVER, COORDINATE REQUIREMENTS WITH ELECTRICAL CONTRACTOR. FOR AUTOMATICALLY OR REMOTELY CONTROLLED MOTORS, FURNISH HAND OFF AUTO (HOA) SELECTOR SWITCHES IN PLACE OF THE PUSH BUTTONS.

2. FURNISH MANUALLY OPERATED MOTOR STARTERS OF THE PROPER SIZE FOR ALL MOTORS LESS THAN 1/2 HP WHICH ARE NOT AUTOMATICALLY CONTROLLED. STARTERS FOR MOTORS 1/2 HP OR LESS SHALL CONSIST OF A SNAP SWITCH WITH THERMAL OVERLOAD PROTECTION WHERE SUCH PROTECTION IS NOT AN INTEGRAL PART OF THE MOTOR.

3. COMBINATION MAGNETIC STARTERS FOR ALL MOTORS SHALL HAVE THERMAL OVERLOAD, PILOT LIGHT, LOW VOLTAGE PROTECTION IN ALL THREE PHASES, INCLUDING A MOTOR TRANSFORMER FOR EACH MAGNETIC STARTER TO PROVIDE 120 VOLT CONTROL POWER WITH 3 SETS OF SPARE NORMALLY CLOSED OR NORMALLY OPEN CONTACTS.

4. ALL STARTERS SHALL BE ASSEMBLED AND INTERNALLY WIRED WITH ALL DEVICES IN CONFORMANCE WITH NEMA STANDARDS.

5. STARTERS FOR MOTORS 75 HP AND ABOVE SHALL BE SOLID STATE ELECTRONIC SOFT START TYPE STARTERS.

6. DISCONNECT SWITCHES ARE PROVIDED BY THE ELECTRICAL CONTRACTOR IF NOT INTEGRAL WITH EQUIPMENT.

D. ENCLOSURES:

1. PROVIDE ENCLOSURES FOR STARTERS SUITABLE FOR OPERATING ENVIRONMENT. ENCLOSURE'S SHALL BE NEMA 1 VENTILATED SHEETMETAL FOR INDOOR APPLICATION, NEMA 3R WITH ADDITIONAL GASKETING

MOISTURE. PROVIDE DISCONNECT SWITCH ON ENCLOSURE AS REQUIRED FOR SERVICE. WEATHERPROOF PAINTIGHT ENCLOSURE FOR EXPOSED OUTDOOR SERVICE OR INDOOR SERVICE EXPOSED TO 2.04 VIBRATION ISOLATION PRODUCTS

A. FURNISH AND INSTALL ALL NECESSARY VIBRATION ISOLATORS, VIBRATION HANGERS, MOUNTING PADS, RAILS, ETC., TO ISOLATE VIBRATION AND SOUND FROM BEING TRANSMITTED TO THE BUILDING CONSTRUCTION. ALL VIBRATION ISOLATION PRODUCTS SHALL BE SPECIFICALLY DESIGNED FOR THEIR INTENDED USE.

B. MANUFACTURER OF VIBRATION ISOLATION EQUIPMENT SHALL HAVE THE FOLLOWING RESPONSIBILITIES:

- 1. DETERMINE VIBRATION ISOLATOR SIZES AND LOCATIONS.
2. PROVIDE SUITABLE PIPING AND EQUIPMENT VIBRATION ISOLATION SYSTEMS.
3. GUARANTEE SPECIFIED ISOLATION SYSTEM ATTENUATION AND DEFLECTION.
4. PROVIDE INSTALLATION INSTRUCTIONS, DRAWINGS AND FIELD SUPERVISION TO ASSURE PROPER INSTALLATION AND PERFORMANCE. STARTERS SHALL BE SELECTED TO SUIT MOTOR RUNNING AND STARTING CHARACTERISTICS.

D. MOUNTING SYSTEMS SHALL BE MANUFACTURED BY MASON INDUSTRIES OR APPROVED EQUAL BY THE ENGINEER.

1. STATIC DEFLECTION OF ISOLATORS SHALL BE A MINIMUM OF 90% EFFICIENT. PROVIDE CORROSION PROTECTION FOR EQUIPMENT MOUNTED OUTDOORS.

2. FLOOR MOUNTING OF CENTRIFUGAL FANS (3 HP AND LESS) SPRING ISOLATORS (TYPE SLF).

3. FLOOR AND ROOF MOUNTING OF FACTORY ASSEMBLED AIR HANDLING UNITS, AIR CONDITIONING UNITS, HEAT EXCHANGERS AND CONDENSING UNITS - SPRING ISOLATORS (ROOF MOUNTED EQUIPMENT TYPE SLR), OR (INDOOR EQUIPMENT TYPE SLF).

4. FLOOR MOUNTING OF CENTRIFUGAL FANS (5 HP AND ABOVE) - SPRING ISOLATOR WITH INERTIA BASE - (TYPE KSL).

5. MOUNTING OF CEILING-SUPPORTED FANS, IN-LINE PUMPS, HEAT EXCHANGERS, AND AIR HANDLING UNITS - SPRING ISOLATORS - (TYPE DNHS).

6. SUPPORT OF PIPING IN EQUIPMENT ROOMS AND WHERE EXPOSED ON ROOF

a. ALL WATER PIPING OUTSIDE OF SHAFTS WITHIN 50 FEET OF CONNECTED ROTATING EQUIPMENT TO BE SUPPLIED WITH ISOLATORS.

b. HANGER ROD ISOLATORS (TYPE 30N) MOUNTINGS.

c. FLOOR SUPPORTED PIPING ISOLATORS (TYPE SLR).

d. VERTICAL RISER PIPING ANCHOR AND GUIDES (TYPE ADA).

7. PROVIDE FLEXIBLE CONNECTIONS BETWEEN ALL FANS AND DUCTWORK (REFER TO DUCTWORK SECTION FOR SPECIFICATIONS).

2.05 TESTING AND BALANCING

A. GENERAL

1. TESTING AND BALANCING WORK SHALL BE PERFORMED BY AN INDEPENDENT COMPANY (NOT ASSOCIATED WITH THE HVAC CONTRACTOR), AABC CERTIFIED OR AS APPROVED BY THE ENGINEER BEFORE COMMENCEMENT OF WORK. APPROVED COMPANIES INCLUDE MERENDINO ASSOCIATES, R. H. MCDERMOTT, INTERNATIONAL TESTING AND BALANCING OR AS APPROVED BY THE ENGINEER AND BUILDING MANAGEMENT.

2. AFTER ALL PROJECT HVAC WORK IS COMPLETE, TESTED AND IN FULL WORKING ORDER, THE AGENCY SHALL PERFORM THE BALANCING AND TESTING OF THE PROJECT HEATING, VENTILATING AND AIR CONDITIONING SYSTEMS.

3. UPON THE COMPLETION OF THE AIR CONDITIONING SYSTEM, THE BALANCING AGENCY SHALL PERFORM TESTING AND BALANCING AND COMPLETE ALL TEST DATA IN A CERTIFIED REPORT AND SUBMIT FOUR (4) COPIES FOR REVIEW AND APPROVAL TO THE ENGINEER.

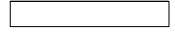
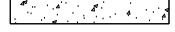
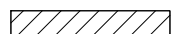
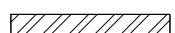






4. THE REPORT SHALL INCLUDE DESIGN AND ACTUAL READINGS FOR ALL EQUIPMENT AND LOCATION PLAN INDICATING WHERE ALL WORK HAS BEEN PERFORMED, AND METHODS OF BALANCING AND DETAILS OF INSTRUMENTS USED.

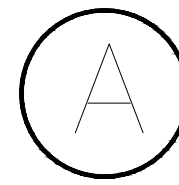
5. IF DISCREPANCIES EXIST IN THE REPORT THAT REQUIRE FIELD VERIFICATION, THE TESTING AND BALANCING COMPANY IN THE PRESENCE OF THE ENGINEER SHALL VISIT THE JOBSITE FOR FIELD VERIFICATION OF THE REPORT.

6. AFTER SUBMISSION OF THE FIELD VERIFIED BALANCING REPORT, THE AIR BALANCING COMPANY SHALL RETURN TO THE JOB SITE TO PERFORM TWO (2) OCCUPANT COMFORT BALANCES AS DIRECTED BY THE OWNER OR ENGINEER.

7. THE FINAL REPORT AFTER THE COMFORT BALANCE IS TO BE INCLUDED IN PROJECT OPERATING AND MAINTENANCE MANUAL.

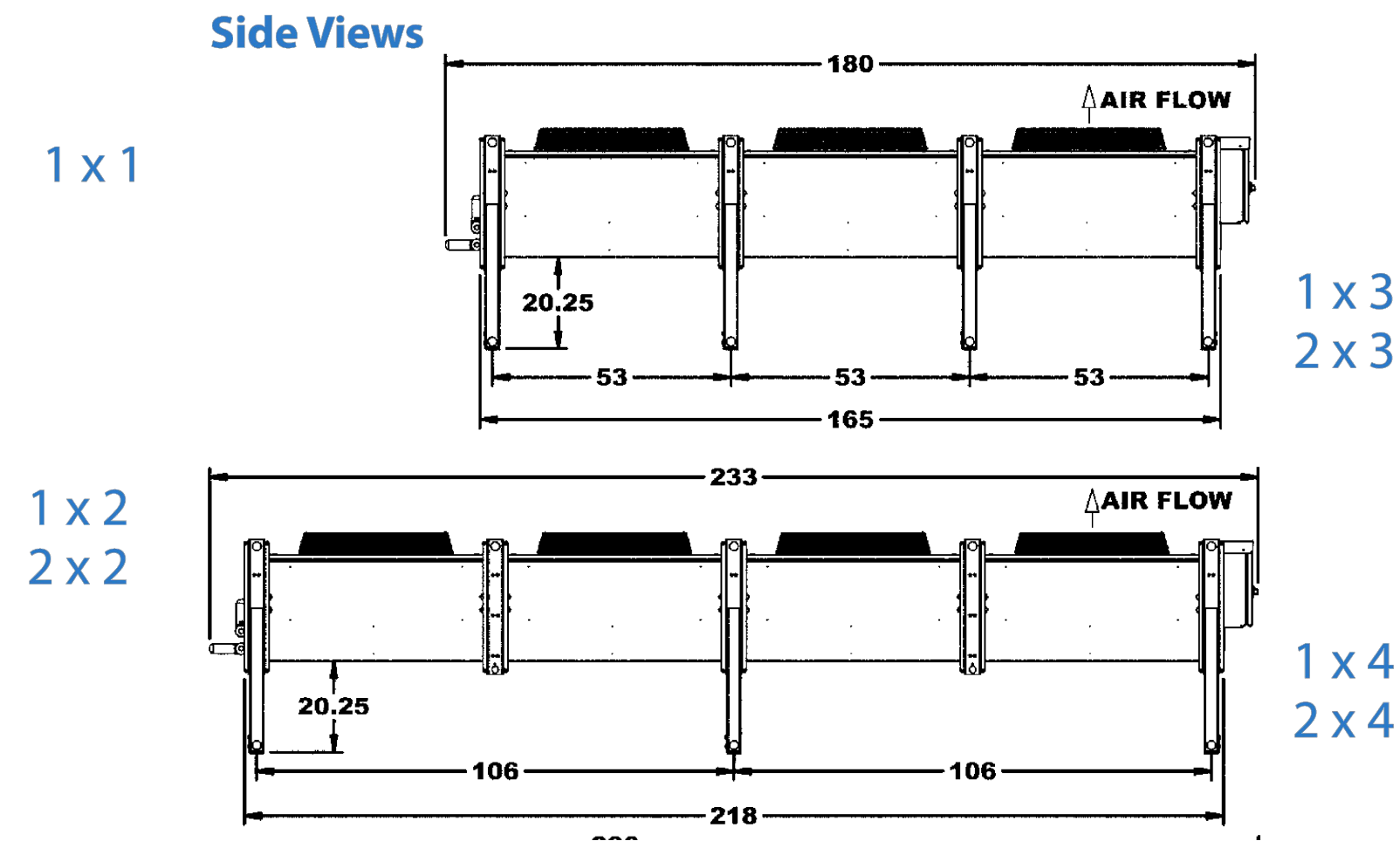
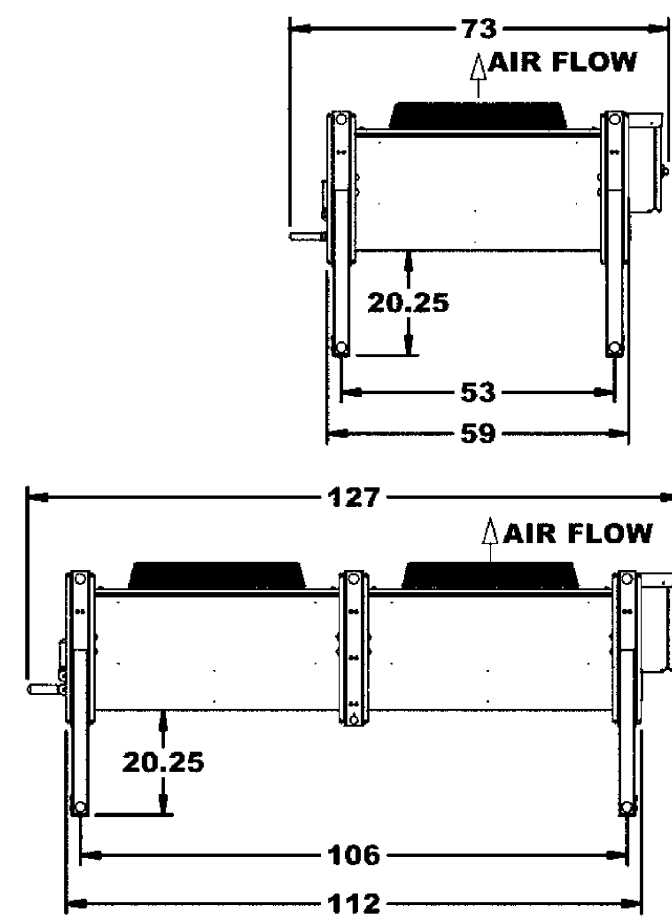
LEGEND:

-  EXISTING WALL
-  EXISTING CONCRETE WALL
-  NEW WALL FULL HGT + 4" METSL STUD+ 5/8" GWB Interior Partition. 2HR. FIRERATED
-  NEW CEILING SOFFIT
-  REFERENT MARK TO SEE DOORS SCHEDULE
-  FLOOR DRAIN
-  SWITCH ACTIVATED EXHAUST FAN DUCTED TO ROOF (5 AIR CHANGES PER MINUTE)
-  PROP. SIGN/ EMERGENCY LIGHT
-  PROP. EMERGENCY LIGHTS
-  (E.P.) ELECTRICAL PANEL



CONDENSER OUTDOOR UNIT (8TH ROOF TOP FLOOR)

AIR COOLED CONDENSER (BOHN)													
MODEL NO.:	BNL-D06-A048	FAN QTY.:	6	CFM:	48,200	RPM:	830	FAN Ø:	30"	VOLTS:	208-230	SERIAL:	17E00868
DIMENSION													
H:	20.25"	W:	127"	L:	180"	NET WEIGHT:		1,520 LBS					

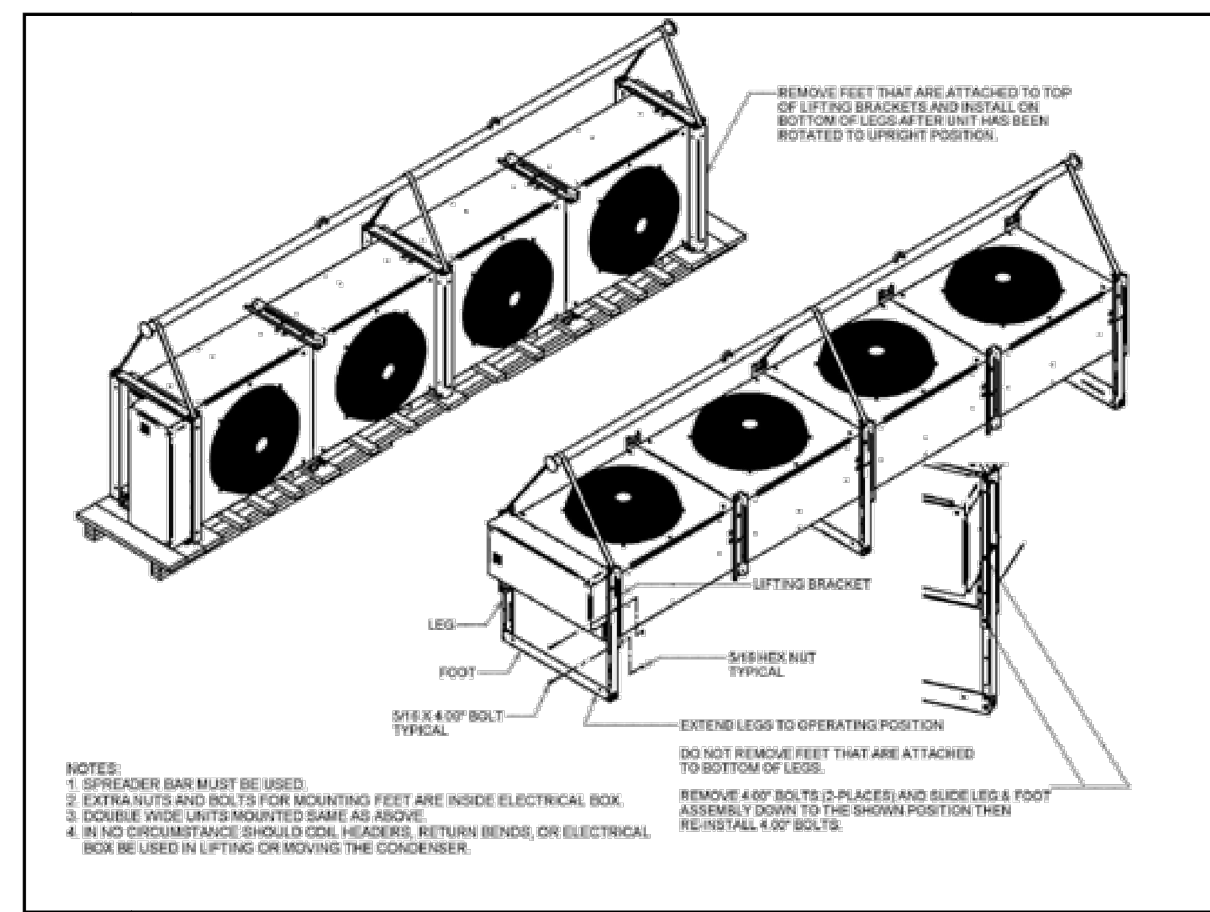


BOHN CONDENSER SPECIFICATIONS BNE 540 830 VSEC 1140

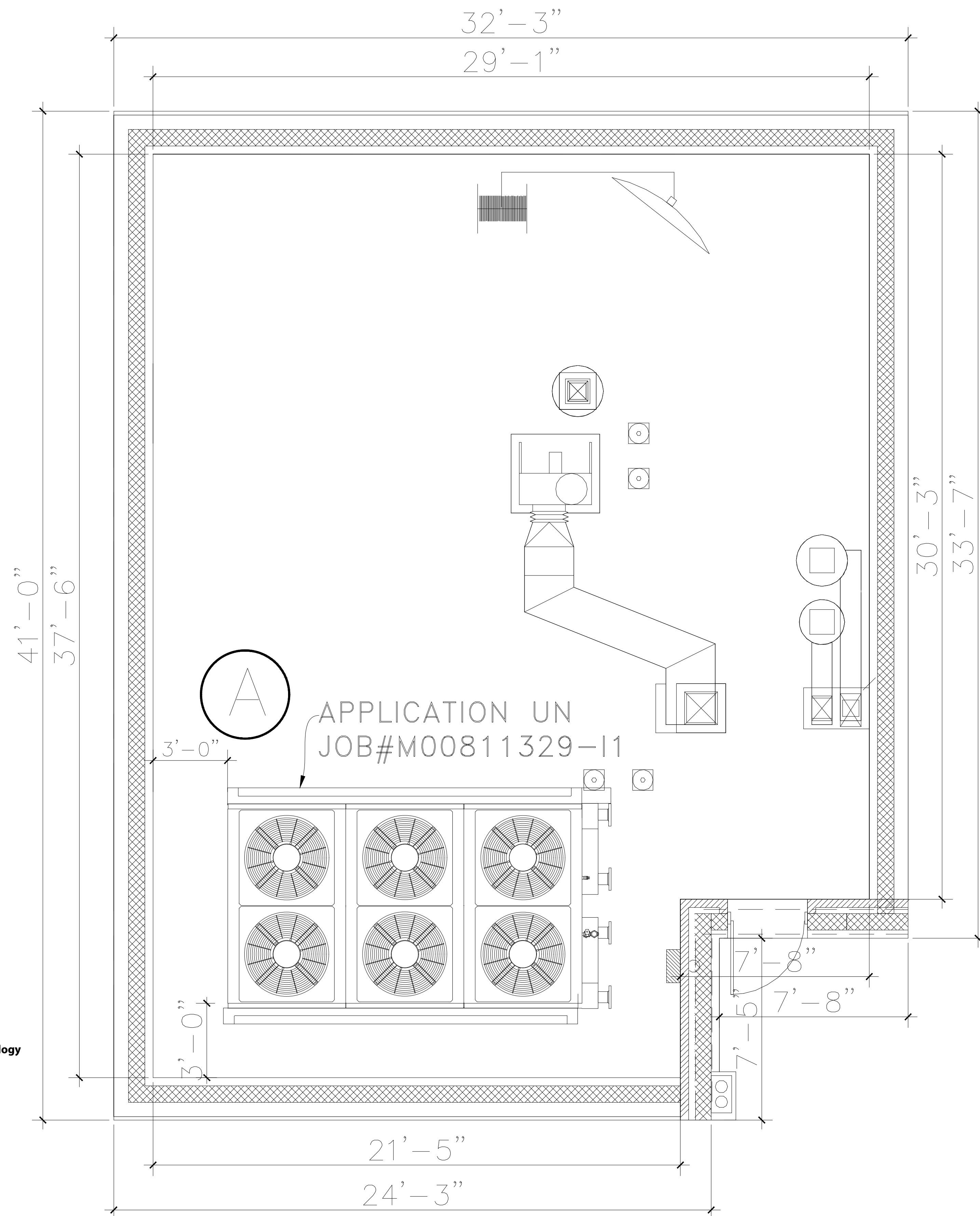
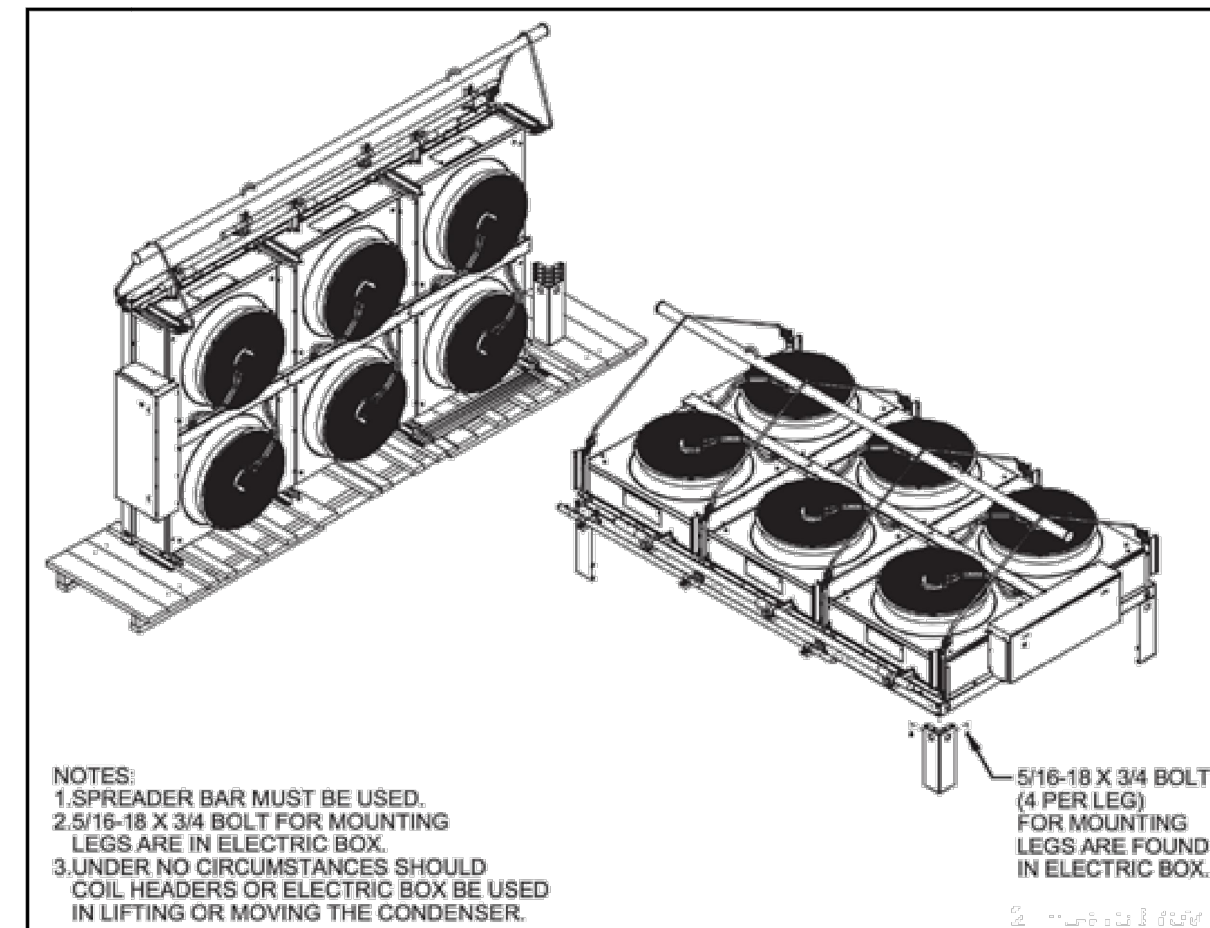
Table 34. BNE Models, 2.0 kW, 31.5" Fan Diameter

Model	CFM	208-230/3/60			460/3/60			Unit kW	Conn. (in.)	Max. Number of Feeds	Approx. Net Weight (lbs)
		FLA	MCA	MOPD	FLA	MCA	MOPD				
BNE-S01-A008	11,000	7.0	15.0	25	3.5	15.0	15	2.0	1 3/8	7	330
BNE-S01-A009	10,500	7.0	15.0	25	3.5	15.0	15	2.0	1 3/8	14	360
BNE-S02-A011	23,400	14.0	20.0	35	7.0	15.0	15	4.0	1 3/8	14	590
BNE-S02-A015	22,000	14.0	20.0	35	7.0	15.0	15	4.0	1 5/8	21	640
BNE-S02-A018	20,900	14.0	20.0	35	7.0	15.0	15	4.0	2 1/8	28	690
BNE-S03-A023	33,100	21.0	22.8	40	10.5	15.0	20	6.0	2 1/8	21	930
BNE-S03-A027	31,400	21.0	22.8	40	10.5	15.0	20	6.0	2 1/8	28	1,010
BNE-S04-A031	42,600	28.0	29.8	45	14.0	15.0	20	8.0	2 1/8	21	1,220
BNE-S04-A036	40,000	28.0	29.8	45	14.0	15.0	20	8.0	2 5/8	28	1,320
BNE-S05-A039	53,200	35.0	36.8	50	17.5	20.0	25	10.0	2 5/8	21	1,520
BNE-S05-A047	50,000	35.0	36.8	50	17.5	20.0	25	10.0	2 5/8	28	1,650
BNE-S06-A056	60,000	42.0	43.8	60	21.0	21.9	30	12.0	2 5/8	28	1,960
BNE-S07-A065	70,000	49.0	50.8	70	24.5	25.4	35	14.0	2 @ 2 5/8	28	2,260
BNE-D04-A023	46,700	28.0	29.8	45	14.0	15.0	20	8.0	2 @ 1 3/8	28	1,290
BNE-D04-A031	44,100	28.0	29.8	45	14.0	15.0	20	8.0	2 @ 1 5/8	42	1,390
BNE-D04-A036	41,800	28.0	29.8	45	14.0	15.0	20	8.0	2 @ 2 1/8	56	1,490
BNE-D06-A046	66,100	42.0	43.8	60	21.0	21.9	30	12.0	2 @ 2 1/8	42	2,060
BNE-D06-A054	62,700	42.0	43.8	60	21.0	21.9	30	12.0	2 @ 2 1/8	56	2,210
BNE-D08-A062	85,100	56.0	57.8	70	28.0	28.9	35	16.0	2 @ 2 1/8	42	2,730
BNE-D08-A073	80,000	56.0	57.8	70	28.0	28.9	35	16.0	2 @ 2 5/8	56	2,930
BNE-D10-A079	106,400	70.0	71.8	90	35.0	35.9	45	20.0	2 @ 2 5/8	42	3,410
BNE-D10-A093	100,100	70.0	71.8	90	35.0	35.9	45	20.0	2 @ 2 5/8	56	3,660
BNE-D12-A112	120,100	84.0	85.8	100	42.0	42.9	50	24.0	2 @ 2 5/8	56	4,370
BNE-D14-A129	140,100	98.0	99.8	110	49.0	49.9	60	28.0	4 @ 2 5/8	56	5,070

Drawing 1. Rigging Instructions for standard Air-Cooled Condenser



Drawing 2. Rigging Instructions for Air-Cooled Condenser with Microchannel Coil Technology



SCOPE OF WORK

APPLICATION FILE TO PROPOSE:
- PROPOSE INTERIOR RENOVATION ON EXISTING COMMERCIAL SPACE.

OWNER:

No. Revision Date

JOSE L. PENNA, P.E.

441 MAXWELL STREET
WEST HEMPSTEAD, NY 11552
TEL.: 917-456-2372
JOSE@PENAFIG.ORG

To the best of my knowledge, belief and professional judgment, these plans and specifications are in compliance with the energy conservation code of New York City "NYCECC 2020."

It is a violation of the New York State Education Law - article 145/ subsection 7209 for any person, unless acting under the direction of a licensed professional engineer to alter any item on these drawings.

PROJECT:
85 AVENUE D,
MANHATTAN, NY 10009

Block: 376
Lot: 7501
Zoning: R8A/C1-5
Map: 12C

DRAWING TITLE:
PROPOSE 8TH FL.

SEAL & SIGNATURE

DATE: 01/26/2023
PROJECT NO.
DRAWN BY: J-GOMEZ
CHK BY:
Drawing NO.

M-010.00
Sheet 10 of 10

JOB NO.: