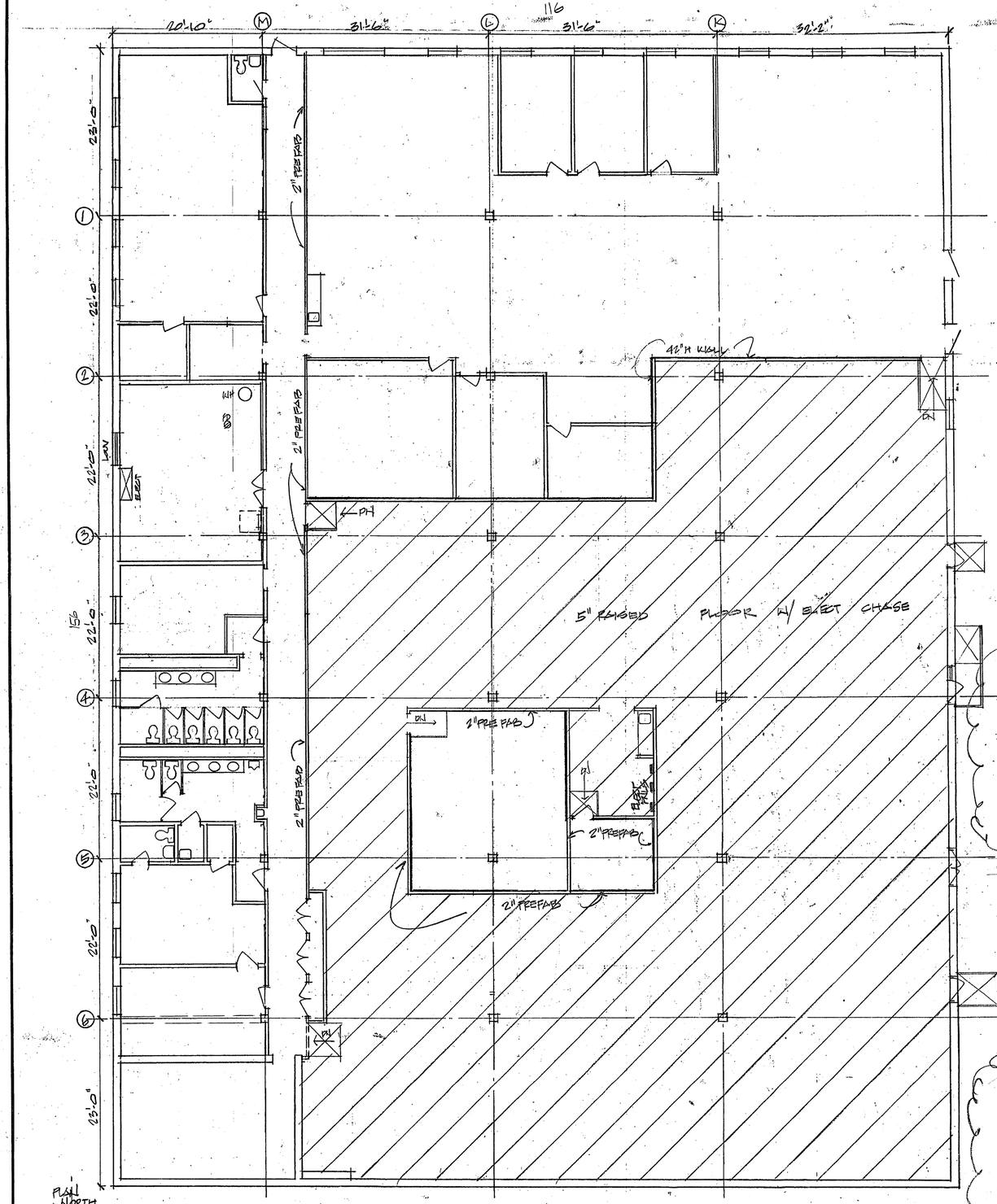
BUILDING DEPT

11/20/2019

REVISIONS

CITY OF DES PLAINES
BUILDING DEPARTMENT
☑ APPROVED
☐ APPROVED AS NOTED
☐ NOT APPROVED-REVISIONS REQUIRED
Date 12/17/2019 BY: afranco



FLOOR PLAN EXISTING AS BUILT
1/8"=1'-0"
EXISTING AREA WEST BLDG 18,096 SQ. FT.

BUILDING #1

ACCESSIBILITY COMPLIANCE NOTE

Project to comply to IAC Sec. 400.510 (b1), all elements to comply to:

- IAC Sec. 400.310 – New construction
- IAC Sec. 400.320 (k) Business & Mercantile.

All new doors required areas and spaces will be 3'-0" min and have lever operated hardware or equal, and comply with ADA sections 4.13, 4.27, and IAC section 400.310 (JR)
All alarms to be audible and visual and will comply with both ADA section 4.28 and IAC section 400.310(S)
Seating, tables and work surfaces – Provide 5% or at least one to comply fully with IAC section 400.310 (W).
All vending machines not exceed 54" A.F.F. to highest operable part
All new doors leading into hazardous rooms to have knurled hardware.
Accessible toilet rooms to have lever operated hardware or equal, and insulated pipes and shall comply with both ADA sections 4.16
& 4.17 and IAC sections 400.310 (m, n, & o)
Signage will comply with both ADA section 4.30 and IAC section 400.310 (U).
Accessible entrance must comply to IAC section 400.310 (K).
All environmental controls to be 15" – 48" A.F.F. and comply to IAC section 400.310 (R).
Public telephones comply with 400.310 (V).
Parking to comply to IAC section 400.310 (_C), provide diagonal stripping, signage, and international symbol on pavement.

INDEX OF DRAWINGS

ARCHITECT COMPLIANCE STATEMENTS

I have prepared, or caused to be prepared under my direct supervision, the attached plans and specifications and state that to the best of my knowledge and belief and to the extent of my contractual obligation, they are in compliance with the Environmental Barriers Act (410 ILCS 25) and the Illinois Accessibility Code (71 ILL ADM. CODE 400).

Signed: _____
Date: 12/19/19

I certify that these drawings were prepared by me or under my direct supervision and control and to the best of my knowledge and belief comply with the requirements of the Chicago Building Code.

Signed: _____
Date: 12/19/19

11/30/20
Affix Original Professional Wet-ink Seal Here

BUILDING #1

H.C. LIFE SAFTEY NOTES:

Grab bars must be in accordance with the following:

a. The diameter or width of a grab bar must be 1 ¼-inches to 1 ½-inches.

b. The grab bar must have at least 1 ½-inches clearance from the wall.

c. If the grab bar is set in a recess, the recess shall be a maximum of 3-inches deep and must extend at least 18-inches above the grab bar.

IAC 400.310 (q)

– All newly installed or replacement sidewalks are required to be accessible.
IAC 400.510 (e) (10) (B)

Detectable warnings at curb ramps are required to be truncated domes in accordance with Highway Standards. The detectable warning must extend the width of the walking surface and extend for a distance of 24-inches in the direction of travel. The detectable warning must also contrast visually with the walking surface.
IDOT BDE Memorandum 35-05.

Reach distance requirements are in accordance with the following:

a. For a forward approach, the maximum high reach is 48-inches above the floor.

b. For a forward approach, the minimum low reach is 15-inches above the floor.

c. For a parallel approach, the maximum high reach is 54-inches above the floor.

d. For a parallel approach, the minimum low reach is 9-inches above the floor.

e. For a forward approach, with an obstruction 20-inches to 25-inches wide, the maximum high reach is 44-inches.

f. For a parallel approach, with an obstruction a maximum of 34-inches high and 24-inches deep, the maximum high reach is 46-inches

IAC 400.220

Insulating materials, where concealed as installed in buildings of any type of construction, shall have a flame spread of 25 or less and a smoke-developed index of 450 or less when tested in accordance with ASTM E84.
IBC 719.2

All exit signs must be illuminated at all times when the building is occupied. To assure continued illumination for duration of not less than 90 minutes in case primary power loss, the exit signs must be connected to an emergency electrical system that complies with Section 2702.
LSC 7.10.4; 12.2.10

Tactile signage in accordance with ICC / ANSI A117.1 reading, "EXIT", is required at each door to an area of refuge, an exterior area for assisted rescue, an exit stairway, an exit ramp, an exit passageway, and the exit discharge. Signs must be installed adjacent to the latch side of the door, 60 inches above the floor measured to the center of the sign.
IFC 1011.4
LSC 7.10.1.3

Provide lighting for the illumination of the exit discharge if normally occupied during non-daylight hours.

Accessible routes shall be in accordance with the following:

a. Floor surfaces shall be slip resistance. CODE REV. 10/18/19

b. Changes in floor level up to ¼-inch may be vertical. Changes in floor levels between ¼-inch and ½-inch shall be beveled with a slope no greater than 1 in 2. Changes in floor level greater than ½-inch shall be accomplished by a ramp, curb ramp, elevator, or platform lift.
IAC 400.310 (n)
ICC/ANSI A117.1 Chapter 4

Tactile signage reading "EXIT" complying with ICC A117.1 is required to be installed adjacent to each door to an egress stairway, exit passageway, or exit discharge.
IBC 1011.3

Where permanent identification is provided for rooms and spaces, accessibility signage shall be installed in accordance with the Illinois Environmental Barriers Act and ANSI A117.1. Signs shall be installed 5-feet above the floor to the centerline of the sign) on the latch side of the door.
IAC 400.310.u.5

Door thresholds cannot exceed ½-inch for swinging doors.
IAC 400.310 (j)
ICC/ANSI A117.1 405

Door hardware must comply with the following requirements:

a. Closers shall be adjusted so that it takes at least 3-seconds for a door opened 70° to move to a position 3-inches from the latch.

b. Door opening force shall be in accordance with the following:

1 Interior hinged doors shall have a maximum opening force of 5-pound-feet

2 Exterior hinged doors shall have a maximum opening force of 8.5-pound-feet

Door hardware must be installed no higher than 48-inches and cannot require tight grasping, pinching or turning of the wrist to operate.
IAC 400.310 (j)

IFC 1006.1
LSC 7.8.1.2, 12.2.8

The intensity of floor lighting cannot be less than 1 foot-candle in all portions of the means of egress.
IFC 1006.2
LSC 7.8.1.3; 12.2.8

The interior finish of all spaces/rooms must comply with the code requirements.
LSC 10.1; 10.2; 10.3; 12.3.3

Provide portable fire extinguishers within the building. The type, size, and spacing must match the specific hazard they are to protect. Contact the fire district for approval of the types and locations of portable fire extinguishers to be used prior to final occupancy.
LSC 9.7.4
NFPA 10

STATE ADA NOTES

ALL CONSTRUCTION TO COMPLY W/ IL. ACCESSIBILITY CODE, APR. 1997

AT LEAST 50% OF ALL PUBLIC ENTRANCES MUST BE ACCESSABLE IAC 400.510

IDENTIFY ROOMS W/ APPROPRIATE SIGNAGE & LOC. ANSI A.1.7

PROVIDE H.C. HARDWARE ALL DOORS IAC 400.310 (q)(5)

SELF CLOSING FAUCET, ANTI SCALT (110° MAX) ON LAV. BASIN, FLOW RESTRICTOR IN ACCORD W/ ASME / ANSI A112.18.1 '89

ALL FLOOR COVERING MATERIALS TO BE SLIP RESISTANT (STATIC COEFFICIENT OF FRICTION 1.6, IAC.400.310(G)(3)

ALL LITE ⊄ TO BE MTD. NO HIGHER THAN 54" AFF FOR SIDE REACH, & 48" AFF FOR FORWARD REACH IAC SEC. 400.310(b)

SAFTEY GLAZING ALL REQ'D LOCATIONS

COMPLY W/ INTERIOR FINISH & FLAME SPREAD RATINGS, NT. TRIM NOT TO BE IN EXCESS OF 10% OF WALLS & CLG. AREAS OF ANY ROOM OR SPACE SHALL BE OF CL I, II OR III, EXCEPT TRIM AROUND FIRE DOORS

ALL TOILET RMS TO BE PROVIDED W/A "30"X48" SPACE ADJACENT TO W.C., NO FIXTURES ALLOWED TO ENCROACH IN SPACE

WALL & CLG FINISHES TO BE CL'C' MIN IBC 803 TABLE 803.9

BUILDING DATA

OCCUPANCY GROUP B
ADJACENT OCCUPANCIES B
MIN SEPERATION N/A
TTL BLDG AREA WEST 18,100 SF

OCCUPANCY LOAD: 18,100/100 181
CONST TYPE: IB
COMMON PATH OF EGRESS TRAVEL 100'
EXIT TRAVEL DISTANCE 200'

36" MIN ABLE WIDTH

CODES: AS AMENDED BY CITY

2015	IBC
2014	IL STATE PLUMB'G CODE
2015	MECH / GAS-FUEL CODES
2014	NEC
2015	IECC.

CERTIFICATION

I CERTIFY THAT THESE DRAWINGS WERE PREPARED IN MY OFFICE UNDER MY SUPERVISION AND TO THE BEST OF MY KNOWLEDGE CONFORM TO THE BUILDING AND ZONING ORDINANCES OF

ARCHITECT

STATE OF ILLINOIS
JEFFERY J. HEANEY
8398
LICENSED ARCHITECT

11/30/20

EXISTING PLAN
2004 MINER DES PLAINES

REVISIONS	BY
10/16/18	
1/8/19	
11/20/19	MP

INTERIOR REMODELING FOR BMM LOGISTICS 2004 MINER ST, DES PLAINES, IL

Jeffery J. Heaney Architect A.I.A.
911 Washington Street • Glenview, IL • (847) 729-4190

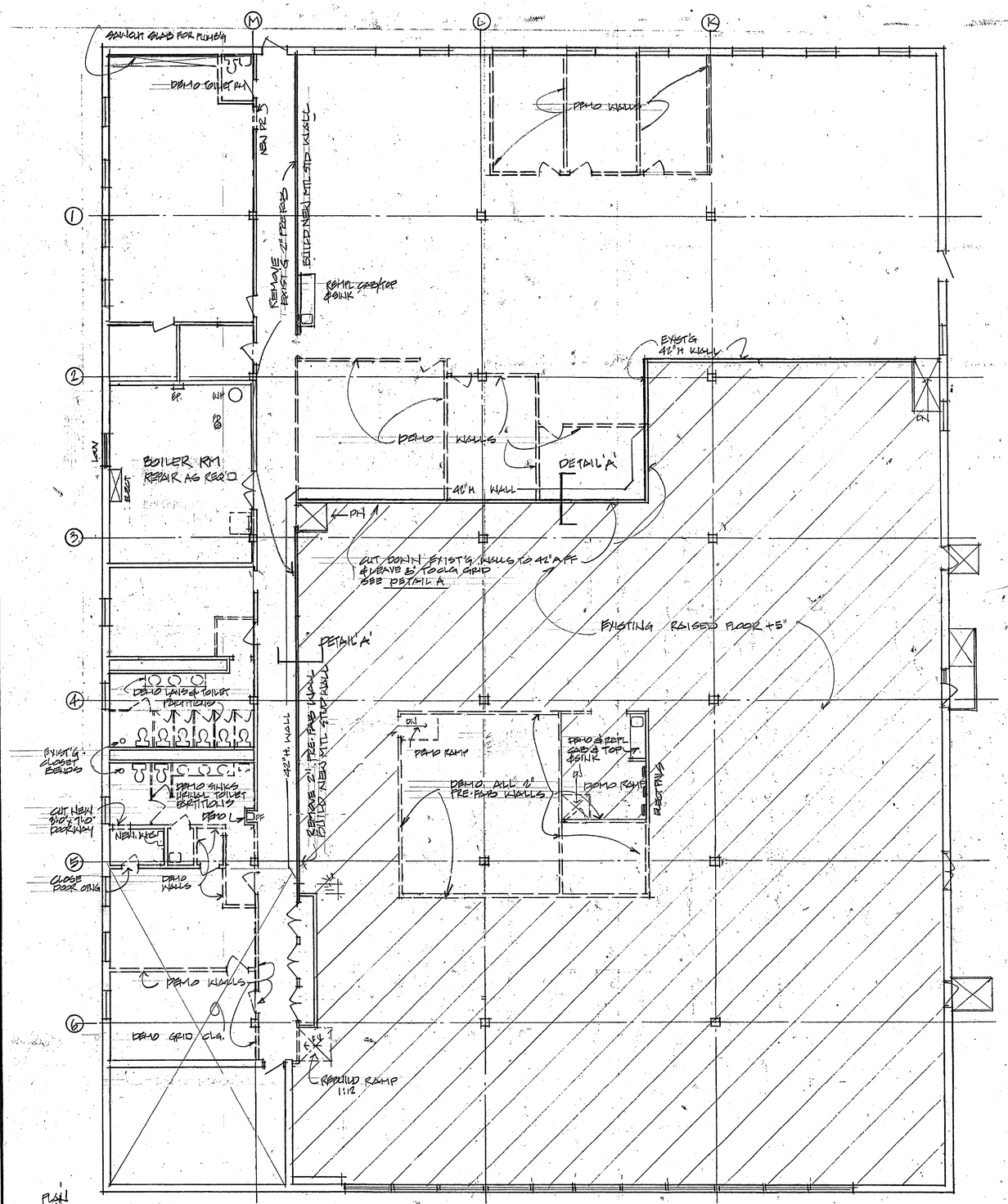
Date 10/30/18
Scale NTS
Drawn JH
Job 18 178
Sheet —
Of Sheets

312-912-2855 MARKSTON@BMMLOGISTICS.COM

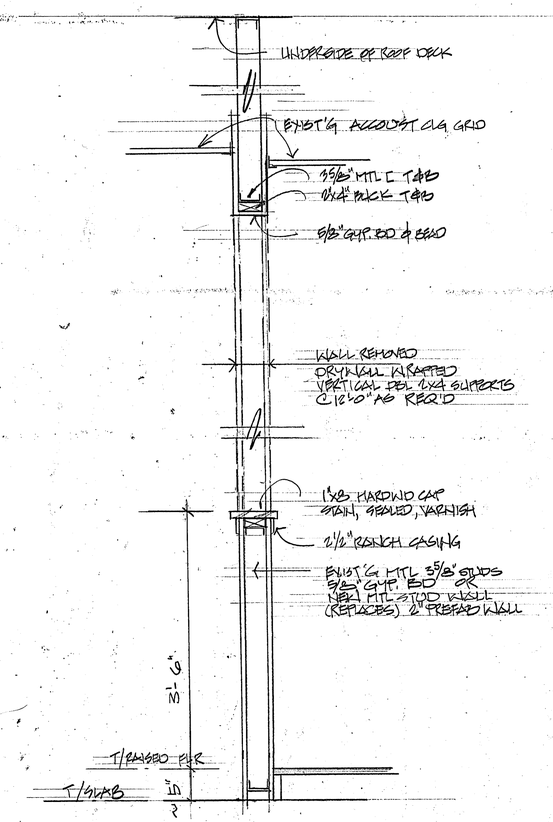
BUILDING DEPT
11/20/2019
REVISIONS

AS-BUILT

REVISIONS	BY
11/12/18	
11/20/19	RH



FLOOR PLAN DEMOLITION
1/8"=1'0"



DETAIL 'A' 42" HIGH GUARD RAIL
1 1/2"=1'0"

DEMOLITION
2004 MINER RES PLANS

Jeffery J. Heaney Architect A.I.A.
911 Washington Street • Glenview, IL • (847) 729-4190

STATE OF ILLINOIS
JEFFERY J HEANEY
6398
LICENSED ARCHITECT
LIC. EXP. DATE
SIGNATURE

INTERIOR REMODELING FOR
BMM LOGISTICS
2004 MINER ST, DES PLAINES, IL.

Date	10/30/18
Scale	NTD
Drawn	JH
Job	18 178
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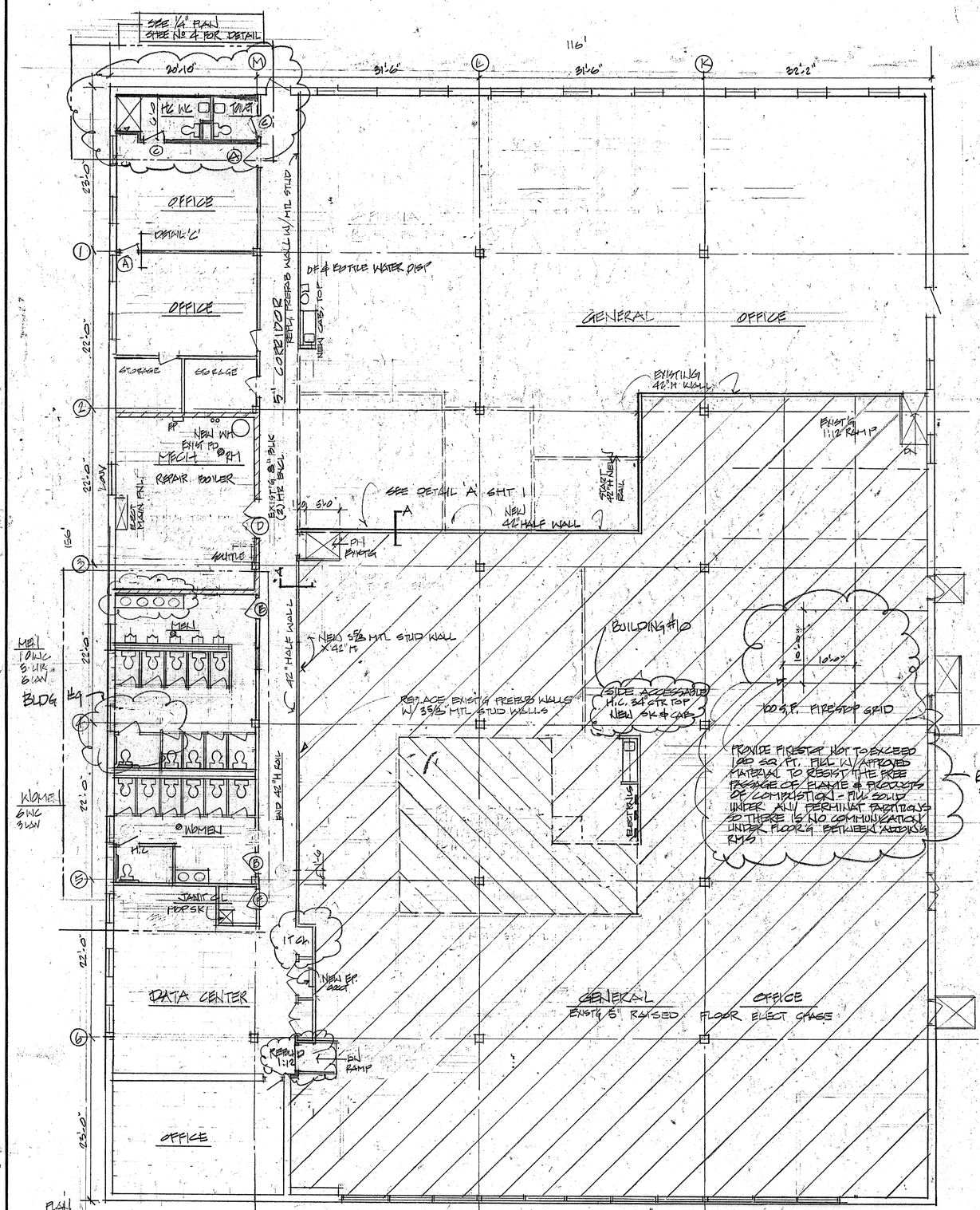
Of	8 Sheets

94 V 50 CLEARPRINT®

BUILDING DEPT
11/20/2019
REVISIONS

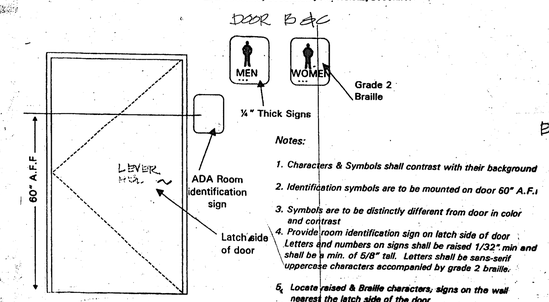
FLOOR PLAN NEW CONSTRUCTION

1/8"=1'-0"



Egress door hardware shall be operable from the side egress is to be made without the use of a key or special knowledge or effort. Door handles, pulls, latches, locks and other devices shall be at a minimum height of 34 inches and a maximum height of 48 inches above the finished floor. ***The operating devices shall be capable of operation with one hand and shall not require tight grasping, tight pinching, or twisting of the wrist to operate. Thumb-turn devices are not permitted.***

IBC 1008.1.8, 1008.1.8.1, 1008.1.8.2, 1008.1.8.3



Notes:

1. *Characters & Symbols shall contrast with their background*
2. *Identification symbols are to be mounted on door 60" A.F.F*
3. *Symbols are to be distinctly different from door in color and contrast*
4. *Provide room identification sign on latch side of door Letters and numbers on signs shall be raised 1/32" min and shall be ½ min. of 5/8" tall. Letters shall be sans-serif uppercase characters accompanied by grade 2 braille.*
5. *Locate raised & Braille characters, signs on the wall nearest the latch side of the door*

Symbols of Accessibility

- Locations Required:
- Public telephones
- Handicapped parking spaces
- Accessible passenger loading zones
- Accessible entrances when not all are accessible
- Accessible restrooms, bathing and shower facilities when not all are accessible

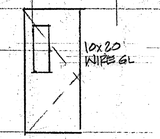
DOOR SCHEDULE

MK	SIZE	TYPE	FRAME	REMARKS/HARDWARE
A	3'-0" x 7'-0" x 1 3/4	WD SC FOR REMOVAL	H.M.	12"W x 30"H. WIRE GL VISION PNL KEY LOCK INSIDE LEVER HDL. CLOSER

NOTE ALL EXIST'G HARDWARE TO COMPLY W/ STATE ADA REQMTS CONFIRM KEY & LOCKING REQMTS W/O

ALT RPL EXIST'G OFFICE/CONFRM DRS W/ 10"x30" VISION PNL

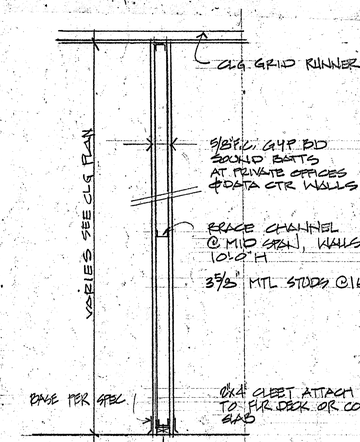
B	3'-0"x7'-0" x1 3/4	WD SC FOR REMOVAL	H.M.	PUSH/PULL HDWR CLOSER
C	3'-0"x7'-0" x1 3/4	WD SC FOR REMOVAL	H.M.	LEVER HDL. PRIVACY LOCK CLOSER
EXIST'G D	PR 3'-6"x7'-0" x1 3/4	O.A	O.A	KNURLED HDL KEY LOCK CLOSER, TACTILE WARNING
E	3'-0"x7'-0" x1 3/4	WD SC	H.M.	LEVER HDL.
F	3'-0"x7'-0" x1 3/4	WD SC	H.M.	KNURLED HDL KEY LOCK CLOSER TACTILE WARNING



BUILDING #2

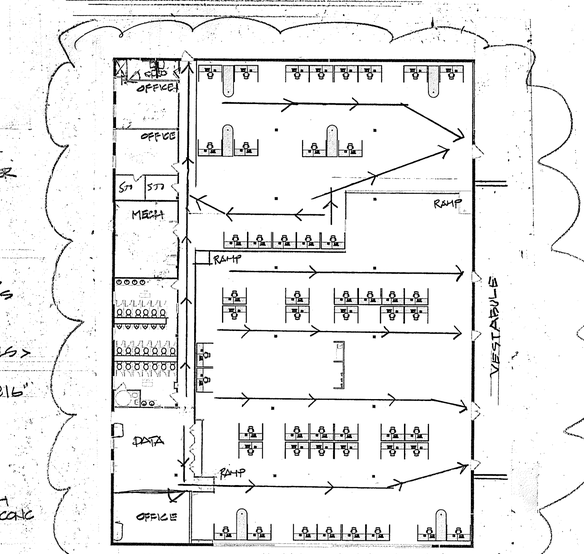
PROVIDE TACTILE WARNINGS ON DOORS TO HAZARDOUS AREAS

(A) DOOR ELEVATION



NEW INTERIOR WALL 'C'

1/2"=1'-0"



FIRE EVACUATION PLAN

NO SCALE

DIRECTION OF TRAVEL

BUILDING #3

REVISIONS	BY
11/12/18	
11/20/19	JH
AS BUILT	

INTERIOR REMODELING FOR
BMW LOGISTICS
2004 MINER ST, DES PLAINES, IL

Jeffery J. Heaney Architect A.I.A.
911 Washington Street • Glenview, IL • (847) 729-4190

STATE OF ILLINOIS JEFFERY J HEANEY 8398 LICENSED ARCHITECT
LIC/EXP DATE DATE SIGNATURE

Date	10/30/18
Scale	NTS
Drawn	JH
Job	18 178
Sheet	3
Of	8 Sheets

NEW CONST
2004 MINER DES PLAINES, IL

708-705-0442

94 X 58 CLEARPRINTS

BUILDING DEPT
11/20/2019
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11/20/19	

AS-BUILT

INTERIOR REMODELING FOR
BMM
2004 MINER ST. DES PLAINES, IL

Jeffery J. Heaney Architect A.I.A.
941 Washington Street • Glenview, IL • (847) 729-4190

Date	10/30/18
Scale	NTS
Drawn	JH
Job	18-178
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Of	8 Sheets

BLDG #9

C.T. ALL WET WALLS 48" AFF

48" & 36" H.C GRABS 3'-0 AFF SOLID BLK

NEW PARTITIONS

NEW W.C 33'-0" c.l.

EXIST'G 5' CONC WALK

EXISTING LOUVER

ELECT MAIN PANEL: MAINTAIN MIN CLR PER '14 NEC

MECH 1,2 & 4 THRU 8

MECH RM

FUR FOR PLUMB'G WALL

NO CHANGE TO MECH HVAC

ELECT SUB PANEL

EXIST'G BOILER

EXIST'G REMOTE COMPRESSORS' PROGRAMMABLE THERMOSTATS

EXIST'G ROOF SCUTTLE W/LADDER

EXHT ⑦ FD

NEW 75 GAL POWER VENT WH

STORAGE

OFFICE

OFFICE

AS-BUILT 2/20/19

5'-0"

H.C CONTROLS

CURTAIN

FAN

LITE

FAN

LITE

MOP SK RM

WOMEN

MEN

FD

SEE SHEET # 3 FOR EXIST'G TOILET RM NOTES

NOTE NO H.C THIS DOOR

REF SINK & CAB

BOTTLE WATER & DF DISP PER IL STATE P/C

OMIT

TOILET ROOM PLAN

1/4"=1'-0"

PLAN NORTH

CROSS HATCH = NEW FIXTURE LOCATIONS

ALL TOILET RMS TO BE COMPLETELY REMODELED TO INCLUDE WALL & FLOOR TILE, ALL FIXTURES & HARDWARE, FAUCETS, COOLSTER TOPS, MIRRORS & NEW LAY-IN, CLG TILE RATED FOR HIGH MOISTURE LOCATIONS, & REPAINT W/ SEMI-GLOSS LOW VOC PAINT

ALL WET WALLS TO HAVE C.T. SURFACE TO 48" AFF

TOILET PARTITION MFR/INSTALLER TO PROVIDE SHOP DWGS & COLOR SELECTION TO INTERIOR DESIGNER

MECH #3
SEE TRC ENG'S FOR CFM'S / VENT'S MEN / WOMENS TOILETS

OMIT REPL W/ BOTTLE WATER DISP

T/MIRROR

6"BK SPL B/MIRROR

FULL MIRROR

C.T. BASE SEALS TO FLR

PIPE INSUL

TYP H.C. STALL

H.C. D.F.

H.C. WOMENS TOILET

NOTE: ALL H.C. ELEVATIONS ARE GENERIC IN NATURE PROVIDING MIN & MAX CLEARANCES PER ADI & SHOULD BE USED BY ALL CONTRACTORS / INT. DESIGNER FOR CODE COMPLIANCE & GUIDELINE

HANDICAP TOILET ELEVATIONS

1/4"=1'-0"

PAPER HOLDER

TYP SIDE SINK

TYP

PIPE INSULL

LOW VOC SEMI GLOSS

MIRROR

FOLDING SEAT

ALL CT OVER CMT BD

H.C. TOILET RM

TYPICAL NOTES:
ALL BASE CAULKED AT INTERSECTION OF BASE & FLR.
ALL GRAB BARS TO HAVE SOLID BLK BKRS NO FASTENERS IN GYP. BD
I.A.W. FAUCETS TO BE PROVIDED W/ AUTOMATIC SAFTEY WATER MIXING DEVICE, COMPLY W/ ANSI/ASSE 1016-1996 OR 1017-1998 ADJUSTED MAX SETTING OF 110°F @ TIME OF INSTALL.

STATE OF ILLINOIS
JEFFERY
HEANEY
001
LICENSED ARCHITECT
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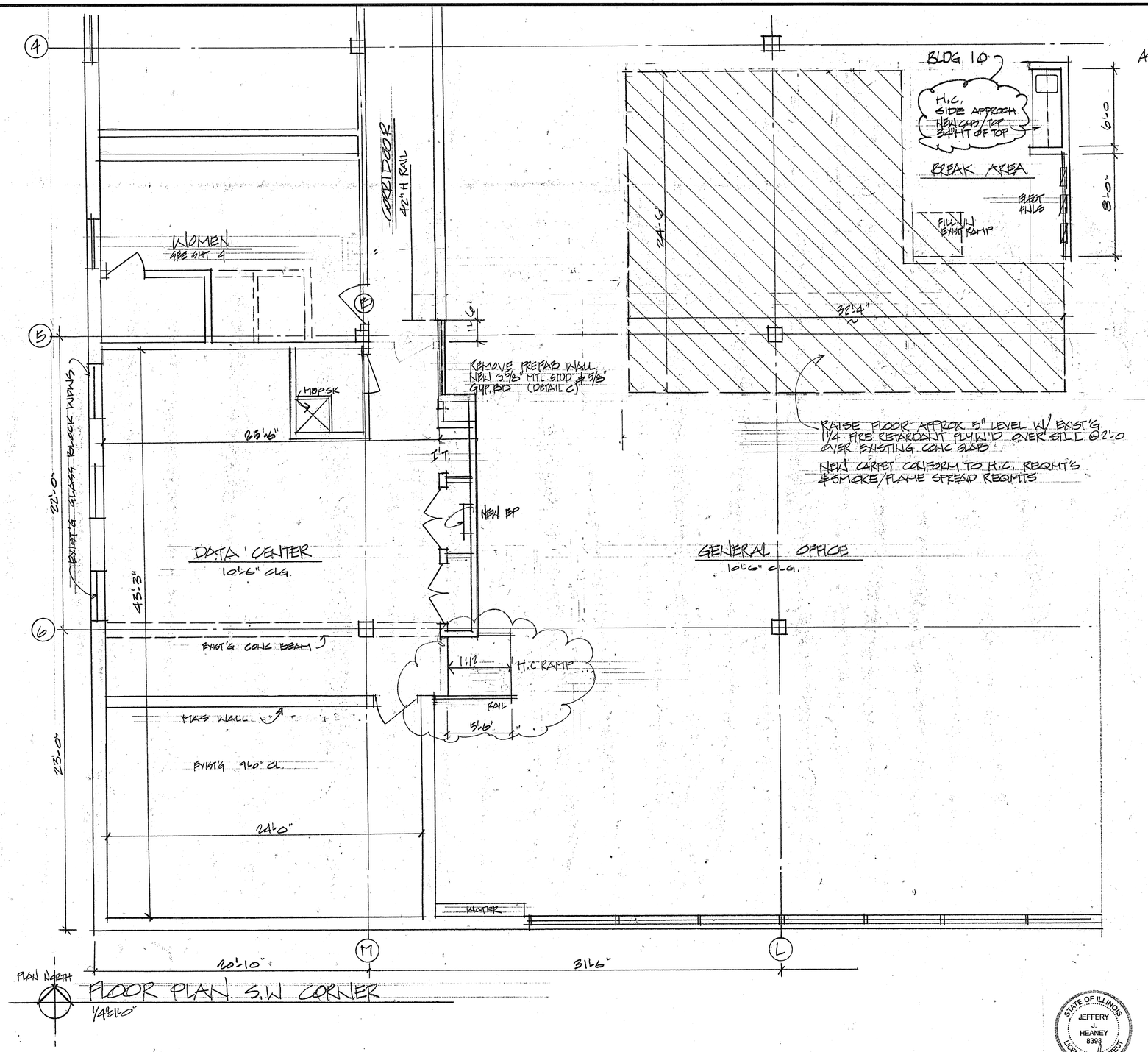
SIGNATURE

1/4" TOILET RM
2004 MINER ST DES PLAINES, IL.

94 X 56 CLEARPRINT®

BUILDING DEPT
11/20/2019
REVISIONS



FLOOR PLAN S.W CORNER
1/4"=1'-0"

AS BLT.

REVISIONS	BY
11/12/18	
11/20/19	

INTERIOR REMODELING FOR
BMM LOGISTICS
2004 MINER ST, DES PLAINES, IL

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1/4" FLR PLAN S.W CORNER
2004 MINER ST DES PLAINES

24 X 36 CLEARPRINTs

BUILDING DEPT
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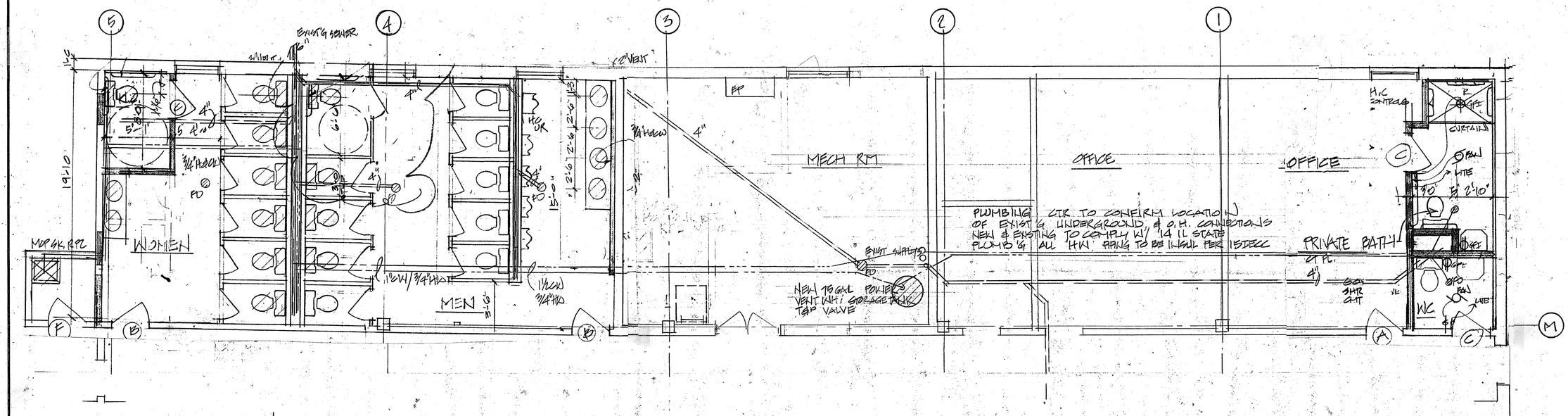
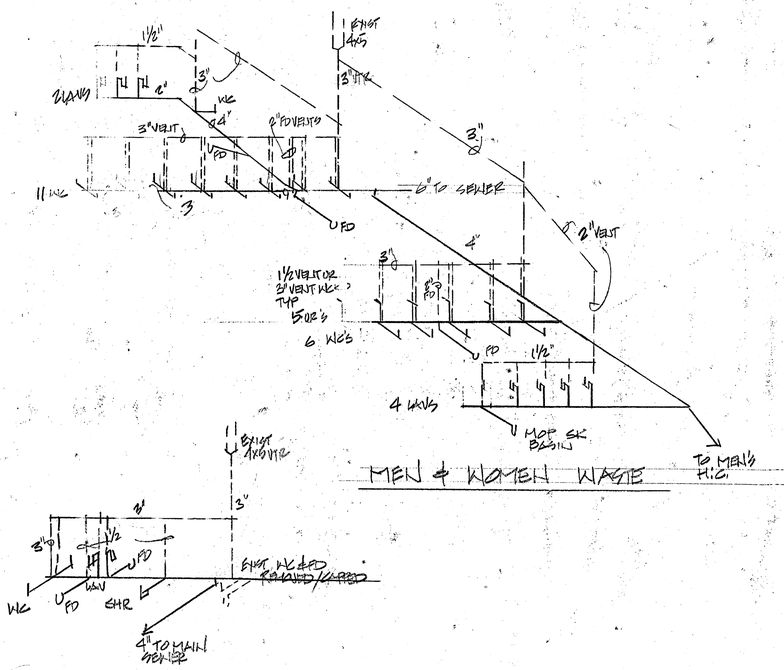
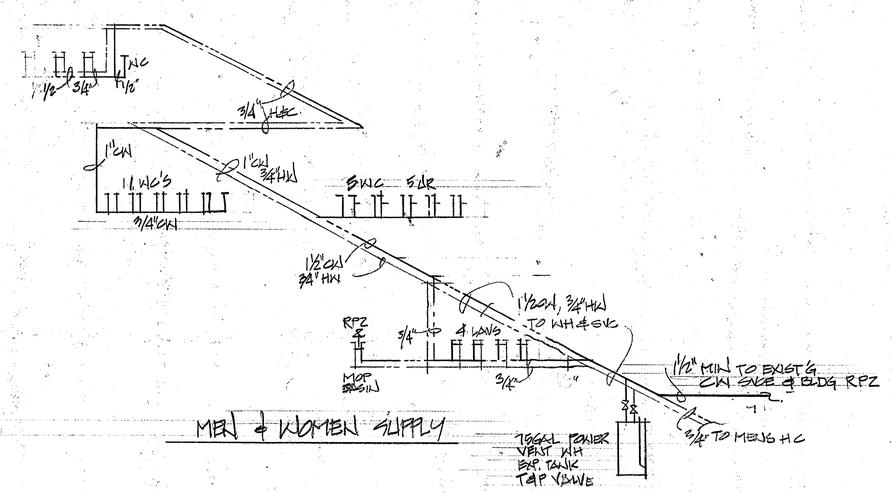


PLUMBING PLAN
1/4"=1'-0"

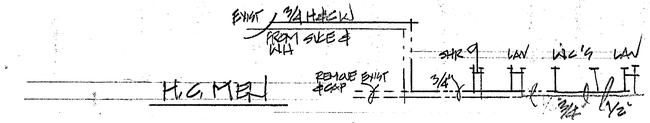


WASTE DIAGRAM

MIN 4" REQ'D UNDER SLAB
ALL NEW & EXISTING WORK TO COMPLY W/ '14 IL STATE PLUMBING CODE
W/S & DRINALS TO BE WATER SAVING TYPE



MEN & WOMEN SUPPLY



SUPPLY DIAGRAM

VALVE ALL FIXTURES
AIR CHAMBERS ALL FIXTURES
DRAIN CHAMBERS ALL RISERS & STRS
TYPE L COPPER
INSULATE H/W PPNG PER IECC
ALL NEW & EXIST'G WORK TO COMPLY W/ '14 IL STATE PLUMB'G CODE

STATE OF ILLINOIS
JEFFERY J. HEANEY
8398
LICENSED ARCHITECT
LIC. EXP. DATE
SIGNATURE
DATE

TOILET RM PLUMB'G.
1004 MINER ST DES PLAINES

REVISIONS	BY
11/12/19	

INTERIOR REMODELING FOR
BMM LOGISTICS
1004 MINER ST, DES PLAINES, IL

Jeffery J. Heaney Architect A.I.A.
911 Washington Street • Glenview, IL • (847) 729-4190

Date 10/30/19
Scale NTS
Drawn JH
Job 18178
Sheet P1
Of 8 Sheets

BUILDING DEPT
11/20/2019
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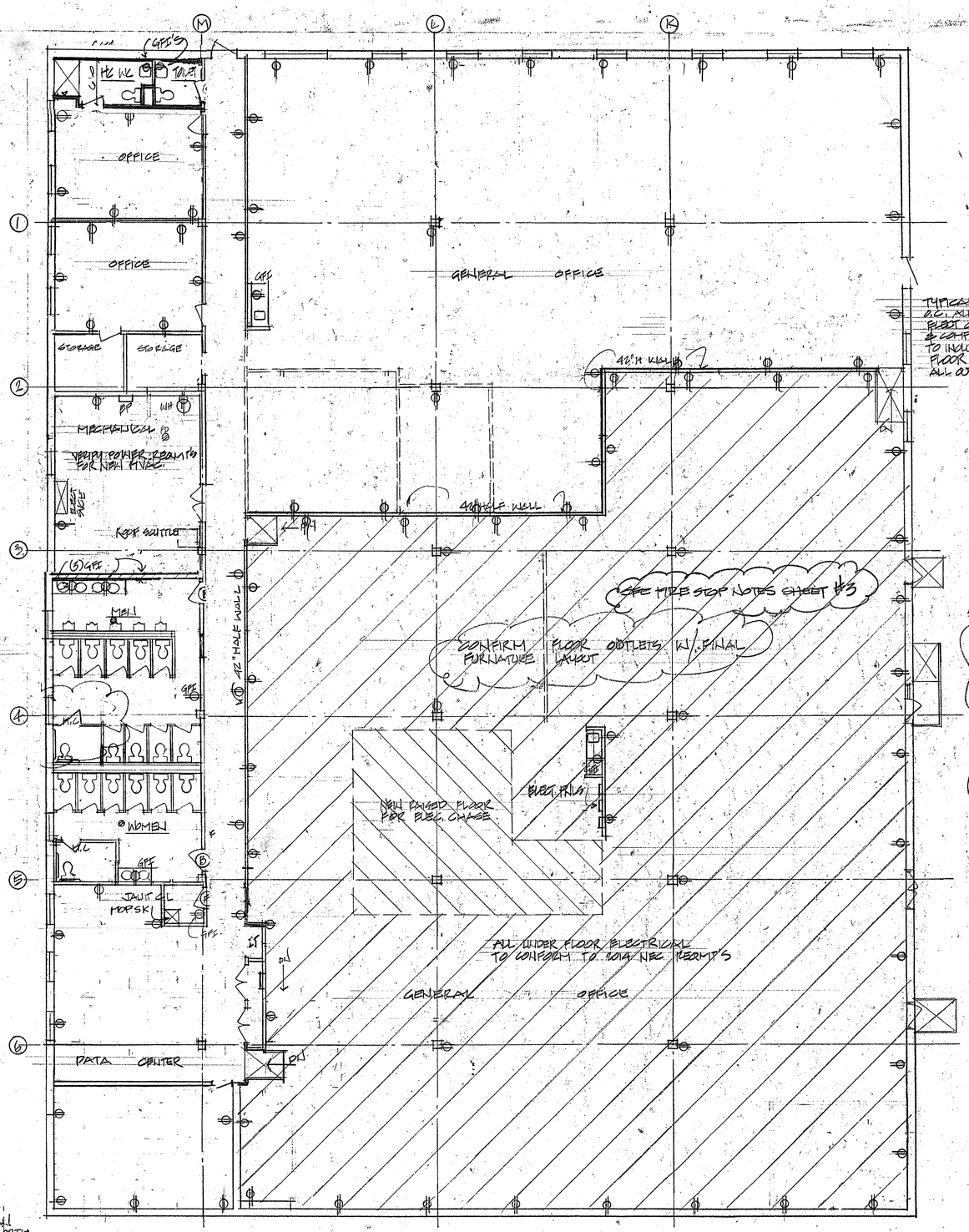
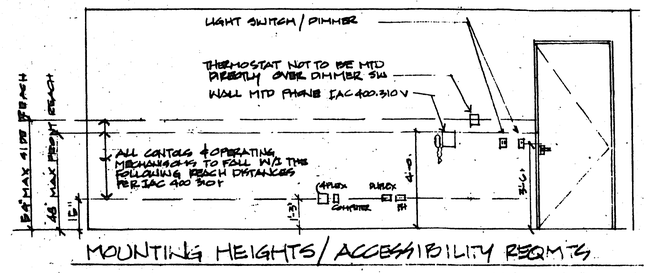


FLOOR PLAN ELECTRICAL
1/8"=1'-0"

TYPICAL 20A OUTLETS @ 12'-0" O.C. ALL EXISTING PERIM. WALLS
ELECT CTR TO SURVEY EXISTING & COMPLY W/ 2012 IL ENERGY REQMTS TO INCLUDE FLOOR OUTLETS IN RAISED FLOOR AREAS. ELECT CTR TO IDENTIFY ALL OUTLET LOCATIONS ON ELEC PNLS



MOUNTING HEIGHTS / ACCESSIBILITY REQMTS

ELECTRICAL NOTES 2 & 3

EXIST'G EMER LTG

2. Emergency lighting facilities shall be arranged to provide initial illumination that is not less than an average of 1 foot-candle (11 lux) and a minimum at any point of 0.1 foot-candle (1 lux) measured along the path of egress at floor level. Illumination levels shall be permitted to decline to 0.6 foot-candle (6 lux) average and a minimum at any point of 0.06 foot-candle (0.6 lux) at the end of the emergency lighting time duration. A maximum-to-minimum illumination uniformity ratio of 40 to 1 shall not be exceeded. In Group I-2 occupancies, failure of any single lighting unit shall not reduce the illumination level to less than 0.2 foot-candle (2.2 lux).

3. The branch-circuit feeding the unit equipment (emergency lights) shall be the same branch circuit as that serving the normal lighting in the area and connected ahead of any local switches. NEC 700.12(F) (2) (3)

#4 ELECT (NO SHOW WINDOWS)

REVISIONS	BY
11/12/18	

INTERIOR REMODELING FOR
BETH LOGISTICS
20004 MINER ST, DES PLAINES, IL.

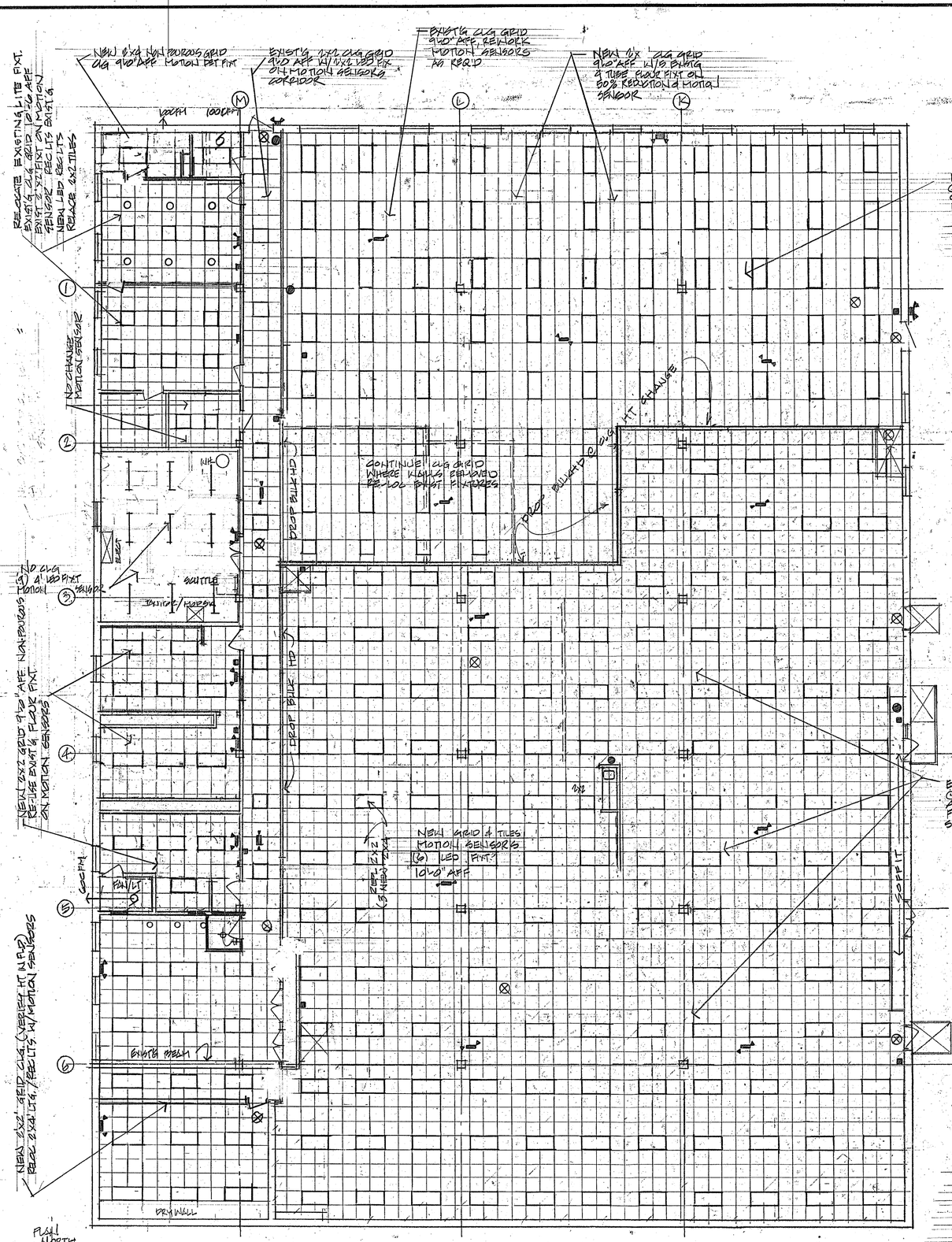
Jeffery J. Heaney Architect A.I.A.
911 Washington Street • Glenview, IL • (847) 729-4190

STATE OF ILLINOIS
JEFFERY J HEANEY
8398
LICENSED ARCHITECT
I. C. EXP. DATE
DATE

Date	10/30/18
Scale	NTS
Drawn	JH
Job	18 178
Sheet	E1
Of	2 Sheets

ELEC FLR PLAN
20004 MINER DES PLAINES

BUILDING DEPT
11/20/2019
REVISIONS



LEGEND

- 10A, 120V DUPLEX #12 WIRE RECEPTICAL
- GFI 10A GROUND FAULT CCT
- EXH FAN TO OUTSIDE / GRAVITY DAMPER
- CLG MT BATTERY BACK UP EMR LTG
- WALL MTD BATTERY BACK UP EMR. LTG.
- EXIT SIGN BATTERY BACK UP
- ABC FIRE EXTINGUISHER
- FIRE PULL STATION / STROBE
- REC LED FIXT

FIELD VERIFY EXIST'G LOC OF ALL EMR EQUIP & LOCATION OF NEW EQUIP AS OFFICE MODIFIED

Field inspector shall field verify emergency lighting and exit signage once all fixtures, furniture and so forth are in place. Additional fixtures may be required at the discretion of the field inspector. ALL FIRE EXTINGUISHER LOC TO VERIFIED BY CITY FD

All exit and emergency lighting shall be provided with 90 minutes of auxiliary power.
IBC 1006.3, 1011.5.3

Occupancy sensor controls are required new offices, rest rooms, storage rooms, janitorial rooms. C405.2.1.
Spaces required to have light-reduction controls shall a manual control that allows the occupant to reduce the connected lighting load in a reasonable uniform illumination pattern by at least 50 percent. See methods in C405.2.2.2.
Each area that is not controlled by an occupancy sensor needs to be controlled by a time-switch control with a manual control for light reduction per C405.2.2.

ELECTRICAL #1

COMcheck Software Version 4.0.8.1

Interior Lighting Compliance Certificate

Project Information

Energy Code: 2015 IECC
Project Title: BMM LOGISTICS
Project Type: Alteration

Construction Site:
2004 Miner st
Des Plaines, IL 60016

Owner/Agent:

Designer/Contractor:

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B X C)
1-Office			
		Total Allowed Watts =	N/A

Area Category Exemption Qualifications

Activity Area	# Fixtures Pre-Alt.	# Fixtures Repl./Added	Total # Watts Pre-Alt.	Total # Watts Post-Alt.
Office (18000 sq.ft.)	110	2	7000.000	6382.000
Exemption: Less than 10% fixture replacement.				

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Office (18000 sq.ft.): Exempt				
			Total Proposed Watts =	N/A

Interior Lighting PASSES

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4.0.8.1 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Sang Nguyen - Electrical Designer — Signature — 01-07-2019 Date

Project Title: BMM LOGISTICS
Data filename: W:\18-SPI-452 - BMM Des Plaines Office\Design\Comcheck\BMM Office.cck

Report date: 01/07/19
Page 1 of 3

STATE OF ILLINOIS
JEFFERY J. HEANEY
8398
LICENSED ARCHITECT
LIC. EXP. DATE
SIGNATURE

REFLECT C., EMR LTG.
2004 MINER
GV

AS BLT

REVISIONS	BY
11/12/18	
11/20/19	

INTERIOR REMODELING FOR
BMM LOGISTICS
2004 MINER ST, DES PLAINES, IL

Jeffery J. Heaney Architect A.I.A.
911 Washington Street • Glenview, IL • (847) 729-4190

Date 10/30/18
Scale NTD
Drawn JH
Job 18 178
Sheet 1 Of 2 Sheets

HVAC SYMBOLS

	SUPPLY DIFFUSER OR SUPPLY GRILLE (NO.#/AIRFLOW IN SHADED REG'DN)		INSULATED METAL PANEL
	RETURN DIFFUSER		BOOT TAP OR 45 DEGREE ENTRY FITTING
	EXHAUST DIFFUSER		R (RISE), D (DROP) ARROW IN DIRECTION OF AIR FLOW
	MANUAL VOLUME DAMPER	AD	ACCESS DOOR
FD	FIRE DAMPER WITH ACCESS DOOR		90 DEGREE ELBOW WITH TURNING VANES
SD	SMOKE DAMPER WITH ACCESS DOOR		STANDARD RADIUS ELBOW WITH CENTER RADIUS EQUAL TO 1-1/2 TIMES WIDTH OF DUCT
FSD	FIRESMOKE DAMPER WITH ACCESS DOOR		
MD	AUTOMATIC MOTOR OPERATED DAMPER		INTERNALLY INSULATED DUCTWORK
BDD	BACK DRAFT DAMPER	20"X12" Ø	FLAT OVAL SPIRAL DUCT (WIDTH X HEIGHT)
AD AFMS	AIR FLOW MEASURING STATION	12" Ø	ROUND SPIRAL DUCT
	DUCT TURNED UP (SOLID LINES)	20"X12"	RECTANGULAR DUCT (WIDTH X HEIGHT)
	DUCT TURNED DOWN (DASHED LINES)		SPIN-IN FITTING WITH MANUAL VOLUME DAMPER AND FLEXIBLE DUCT CONNECTION
PLAN VIEW / SECTION	RETURN BRANCH DUCT TO RETURN GRILLES/DIFFUSER		CONICAL FITTING
WITH FLEX DUCT		20"X12"	SQUARE TO ROUND TRANSITION
PLAN VIEW / SECTION WITH FLEX DUCT	SUPPLY BRANCH DUCT TO SUPPLY GRILLED/DIFFUSER	T.B.X.	TYPICAL TERMINAL BOX WITH REHEAT COIL, TWO WAY CONTROL VALVE, BOX DESIGNATION
PLAN VIEW / SECTION WITH FLEX DUCT	EXHAUST BRANCH DUCT TO EXHAUST GRILLED/DIFFUSER	T.B.X.	TYPICAL TERMINAL BOX WITH REHEAT COIL, THREE WAY CONTROL VALVE, BOX DESIGNATION
	SIDEWALL SUPPLY, RETURN OR EXHAUST GRILLE		TYPICAL CHILLED BEAM (24"X48")
	SUPPLY, RETURN, OR EXHAUST SLOT DIFFUSER		90 DEGREE TEE (ROUND OR FLAT OVAL ONLY)
	STAINLESS WELDED DUCTWORK PER SPECIFICATION		

CONTROL SYMBOLS

TTT	AIR FLOW MEASURING STATION	HH	HUMIDITY TRANSMITTER (PNEUMATIC)	VSC	VARIABLE SPEED MOTOR CONTROLLER
AFS	AIR FLOW SWITCH	TLL	LOW LIMIT SAFETY THERMOSTAT	VP	VELOCITY PRESSURE SENSOR (ELECTRONIC)
AL	ALARM	MS 120/60/1 BY EC	MAGNETIC INDUCTIVE FLOW METER SENSOR	VS	VIBRATION SWITCH
BDD	BACK DRAFT DAMPER	S	MANUAL SWITCH (ELECTRIC)	VXT	VORTEX SHEDDING AIR FLOW TRANSMITTER
CO_2 120/60/1 BY EC	CO_2 SENSOR	MDM	MODEM	VSM 120/60/1 BY EC	VORTEX SHEDDING FLOW METER
CS	CURRENT SENSOR	MCC	MOTOR CONTROL CENTER		
DD	DUCT DETECTOR	STR	MOTOR STARTER	20	20 PSIG MAIN AIR
I/S	CURRENT TO PNEUMATIC TRANSDUCER	DWG	OPERATOR'S WORK STATION		PRESSURE GAUGE
ES	DAMPER END SWITCH (BINARY)	DAD	OUTDOOR AIR DAMPER	HC	HOLDING COIL
ΔAP	DIFFERENTIAL PRESSURE SENSOR (ANALOG)	VPS	OUTDOOR AIR VOLUME PROBE, TRANSDUCER AND MONITOR	H	HUMIDISTAT (SPACE)
ΔP	DIFFERENTIAL PRESSURE SWITCH SENSOR (BINARY)	PR	PNEUMATIC RELAY	S	SWITCH (PNEUMATIC)
ΔP (HL)	DIFFERENTIAL PRESSURE SWITCH (HIGH LIMIT) (BINARY)	PE	PRESSURE-ELECTRIC SWITCH	T	THERMOSTAT (SPACE)
ΔP (LL)	(LOW LIMIT) (BINARY)	PC	PRESSURE CONTROLLER (PNEUMATIC)	T_N	THERMOSTAT (SPACE) NIGHT CYCLE
EP	ELECTRO-PNEUMATIC SWITCH	P	PRESSURE SENSOR (ELECTRONIC)		0-30 PSIG AIR GAUGE
EPT	ELECTRO-PNEUMATIC TRANSDUCER	PT	PRESSURE TRANSMITTER (PNEUMATIC)	LAN	LOCAL AREA NETWORK
EAD	EXHAUST AIR DAMPER	RAD	RETURN AIR DAMPER	TCC	TEMPERATURE CONTROL CONTRACTOR
FBD	FACE & BY-PASS DAMPER	SD	SMOKE DETECTOR	(NOTE: TCC & ECC ARE USED INTERCHANGEABLY)	
FDD	FAN DISCHARGE DAMPER	S/S	START/STOP SWITCH	ECC	ENVIRONMENTAL CONTROL CONTRACTOR
FID	FAN INLET DAMPER	DM 120/60/1 BY EC	STEAM FLOW MEASUREMENT ORIFICE PLATE & MASS FLOW COMPUTER	EC	ELECTRICAL CONTRACTOR
VXD	FAN INLET VORTEX DAMPER			P OR	PNEUMATIC
FC	FLOW CONTROLLER	TC	OVERRIDE TIMER	OR	ELECTRICAL WIRING
FS	FLOW SENSOR	TC	TEMPERATURE CONTROLLER (PNEUMATIC)	AI-X	ANALOG INPUT (DDC CONTROLLER)
HOA	HAND-OFF-AUTO SWITCH	T	TEMPERATURE SENSOR (ELECTRONIC)	AO-X	ANALOG OUTPUT (DDC CONTROLLER)
HTC	HUMIDITY CONTROLLER (PNEUMATIC)	TT	TEMPERATURE TRANSMITTER (PNEUMATIC)	BI-X	BINARY INPUT (DDC CONTROLLER)
HTE	HUMIDITY HIGH LIMIT (ELECTRIC)	M	TERMINAL BOX ACTUATOR	BO-X	BINARY OUTPUT (DDC CONTROLLER)
H	HUMIDITY SENSOR (ELECTRONIC)	TM	TURBINE METER		

NOTE: ALL SYMBOLS AND ABBREVIATIONS MAY NOT BE USED ON THIS PROJECT

VALVE AND FITTING SYMBOLS

PLAN VIEWS	DETAIL VIEW	
		PIPING FLEXIBLE CONNECTION
		PIPE TURNED UP (UNLESS NOTED OTHERWISE)
		PIPE TURNED DOWN
		PIPE OUT TOP
		PIPE OUT BOTTOM
		THREADED N'PPLE W/CAP
		PIPE WITH BLIND FLANGE
		CONCENTRIC REDUCER
		ECCENTRIC REDUCER
		ISOLATION VALVE (PLUMBING SCHEMATIC)
		CHECK VALVE
		UNION
		GATE VALVE
		BALL VALVE
		GLOBE VALVE
		BUTTERFLY VALVE
		TEMPERATURE CONTROL - 2 WAY MODULATING VALVE
		TEMPERATURE CONTROL - 2 WAY 2 POSITION ISOLATION VALVE
		TEMPERATURE CONTROL - 3 WAY MODULATING VALVE
		TEMPERATURE CONTROL - 3 WAY 2 POSITION ISOLATION VALVE
		CALIBRATED BALANCE VALVE
		SAFETY RELIEF VALVE
		STRAINER
		FLOW METER
		FLOOR DRAIN
		AUTOMATIC FLOW CONTROL VALVE
		FLOW MEASURING DEVICE
		MANUAL AIR RELIEF VENT
		AUTOMATIC AIR RELIEF VENT
		LUBRICATED PLUG VALVE
		STEAM PRESSURE REDUCING VALVE
		ANGLE VALVE
		REFRIGERANT HOT GAS BY-PASS VALVE
		SHUT-OFF COCK (HYDRONICS)
		SOLENOID VALVE
		REFRIGERANT EXPANSION VALVE
		WATER PRESSURE REDUCING/REGULATING VALVE
		STEAM TRAP
		DIELECTRIC UNION BETWEEN STEEL AND COPPER
		STRAINER (STEAM)
		PRESSURE AND TEMPERATURE PLUG
		REFRIGERANT SIGHT GLASS
		THERMOMETER
		(P=PRESS V=VAC T=TEMP) GAUGE
		SENSOR (T-TEMP H-HUMIDITY)
		FLOW SWITCH
		CLEAN OUT
		INDICATED EXPANSION LOOP (COLD SPRUNG)
		ANCHOR
		GUIDE
		REFRIGERANT SHUT-OFF VALVE
		EXPANSION JOINT
		DIFFERENTIAL SWITCH

LINE SYMBOLS

	LIGHT/SCREENED SOLID OR DASHED LINES INDICATE EXISTING TO REMAIN
	HEAVY DASHED LINES INDICATE EXISTING TO BE REMOVED
	HEAVY CONTINUOUS LINES INDICATE NEW WORK
	LIGHT DOT LINES INDICATE FUTURE WORK

HVAC PIPING SYMBOLS

HWS	HEATING WATER SUPPLY
HWR	HEATING WATER RETURN
PHWS	PERIMETER HEATING WATER SUPPLY
PHWR	PERIMETER HEATING WATER RETURN
CBHWS	CHILLED BEAM HEATING WATER SUPPLY
CBHWR	CHILLED BEAM HEATING WATER RETURN
CWS	CHILLED WATER SUPPLY
CWR	CHILLED WATER RETURN
CBCWS	CHILLED BEAM CHILLED WATER SUPPLY
CBCWR	CHILLED BEAM CHILLED WATER RETURN
CS	CONDENSER WATER SUPPLY
CR	CONDENSER WATER RETURN
LPS	LOW PRESSURE STEAM
LPR	LOW PRESSURE CONDENSATE RETURN
MPS	MEDIUM PRESSURE STEAM
MPR	MEDIUM PRESSURE CONDENSATE RETURN
HPS	HIGH PRESSURE STEAM
HPR	HIGH PRESSURE CONDENSATE RETURN
TC	TRAPPED CONDENSATE IN TUNNEL (SYSTEM PRESSURE)
SV	STEAM VENT
CPD	CONDENSATE PUMP DISCHARGE
GS	GLYCOL SUPPLY
GR	GLYCOL RETURN
CD	CONDENSATE & EQUIPMENT DRAIN
BFW	BOILER FEED WATER
BWCF	BOILER WATER CHEMICAL FEED
CWCF	CONDENSER WATER CHEMICAL FEED
ECWS	EQUIPMENT COOLING WATER SUPPLY
ECWR	EQUIPMENT COOLING WATER RETURN
HRS	HEAT RECOVERY SUPPLY
HRR	HEAT RECOVERY RETURN
RHG	REFRIGERANT HOT GAS
RL	REFRIGERANT LIQUID
RS	REFRIGERANT SUCTION
	DIRECTION OF PIPE SLOPE (DOWN)

FLOOR PLAN SYMBOLS

1 / A101 TYP	SECTION WITH TOP NUMBER INDICATING SECTION DESIGNATION AND BOTTOM NUMBER INDICATING DRAWING THAT SECTION IS CUT ON OR DRAWING THAT SECTION IS DRAWN ON
1 / A101 TYP	DETAIL WITH TOP LETTER INDICATING DETAIL DESIGNATION AND BOTTOM NUMBER INDICATING DRAWING THAT DETAIL IS REFERENCED ON OR DRAWING THAT DETAIL IS DRAWN ON
A.	GENERAL NOTE
1.	PLAN NOTE LIST
1	PLAN NOTE
T	THERMOSTAT - "N" INDICATING NIGHT SETBACK THERMOSTAT
H	HUMIDISTAT
	CONNECTION OF NEW WORK TO EXISTING

MECHANICAL ABBREVIATIONS

ABBREV.	DESCRIPTION
A/E	ARCHITECT AND ENGINEER
AC OR ACU	AIR CONDITIONING UNIT OR AIR COMPRESSOR
ACCU	AIR COOLED CONDENSING UNIT
ACD	AIR CONDITIONING CONDENSATE DRAIN
AD	ACCESS DOOR
ADJ	ADJUSTABLE OR ADJACENT
AFCV	AIRFLOW CONTROL VALVE
AFF	ABOVE FINISHED FLOOR
AFMS	AIR FLOW MEASURING STATION
AHU	AIR HANDLING UNIT
APD	AIR PRESSURE DROP
APPROX	APPROXIMATE
AR	AIR RECEIVER
ARCH	ARCHITECT
AS	AIR SEPARATOR
ATM	ATMOSPHERE
AV	ACID VENT
AVMS	AIR VOLUME MEASURING STATION
AW	ACID WASTE
B	BOILER
BCU	BLOWER COIL UNIT
BDD	BACKDRAFT DAMPER
BHP	BRAKE HORSEPOWER
BI	BACKWARD INCLINED
BLDG	BUILDING
BOT	BOTTOM
BP	BRINE PUMP
BST	BULK SALT STORAGE
BTU	BRITISH THERMAL UNIT
BTUH	BTU PER HOUR
CA	COMPRESSED AIR
CAP	CAPACITY
CAV	CONSTANT AIR VOLUME
CC	COOLING COIL
CCP	COOLING COIL PUMP
CDS	CONDENSATE PUMP DISCHARGE
CENTRIF	CENTRIFUGAL
CFM	CUBIC FEET PER MINUTE
CFOI	CONTRACTOR FURNISHED/OWNER INSTALLED
CH	CHILLER
CI	CAST IRON
CO	CLEAN OUT
CO2	CARBON DIOXIDE
COL	COLUMN
CDM	CARBON DIOXIDE MANIFOLD
COMP	COMPRESSOR
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
CP	CONDENSATE PUMP
CPD	CONDENSATE PUMP DISCHARGE
CUH	CABINET UNIT HEATER
CW	COLD WATER
CWM	COLD WATER MAKE-UP
CWP	CHILLED WATER PUMP
CWR	CHILLED WATER RETURN
CWS	CHILLED WATER SUPPLY
D	DIFFUSER OR DAMPER
DB	DECIBELS OR DRY BULB
DC	DUCT COIL
DCV	DOUBLE CHECK VALVE
DCWBP	DOMESTIC COLD WATER BOOSTER PUMP
DO	DUAL OUCT
DDC	DIRECT DIGITAL CONTROL
*DE	DEAERATOR
DEFL	DEFLECTION
DEG	DEGREE
DEPT	DEPARTMENT
DHWBP	DOMESTIC HOT WATER BOOSTER PUMP
DI	DEIONIZED WATER
DIA	DIAMETER
DISC	DISCONNECT
DISCH	DISCHARGE
DS	DOWNSPOUT
DSWBP	DOMESTIC SOFT WATER BOOSTER PUMP
DUC	DOOR UNDER CUT
DWG	DRAWING
DW	DISTILLED WATER
DWBP	DOMESTIC WATER BOOSTER PUMP
DWH	DOMESTIC WATER HEATER
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EBH	ELECTRIC BASEBOARD HEATER
EC	ELECTRICAL CONTRACTOR
ECC	ENVIRONMENTAL CONTROL CONTRACTOR
ECG	EGG CRATE GRILLE
EG	EXHAUST DIFFUSER
EDC	ELECTRIC DUCT COIL
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST AIR FAN
EFT	ENTERING FLUID TEMPERATURE
EG	EXHAUST GRILLE OR ETHYLENE GLYCOL
ELEC	ELECTRIC
ELEV	ELEVATON
EMER	EMERGENCY
EMG	EXTRUDED METAL GRILLE
ENCL	ENCLOSURE
ENTR	ENTERING
EOM	END OF MAIN GRIP
EQA	EQUIPMENT AIR
EQAC	EQUIPMENT AIR COMPRESSOR
EQAI	EQUIPMENT AIR INTAKE
EQUIP	EQUIPMENT
EQV	EQUIPMENT VACUUM
EQVP	EQUIPMENT VACUUM PUMP
EQV V	EQUIPMENT VACUUM VENT
ERP	ELECTRIC RADIANT PANEL
ES	EMERGENCY SHOWER
ESP	EXTERNAL STATIC PRESSURE OR ELEVATOR SUMP PUMP
ET	EXPANSION TANK
EUH	ELECTRIC UNIT HEATER
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST
EXIST	EXISTING
EXT	EXTERIOR

ABBREV.	DESCRIPTION
F	DEGREES FAHRENHEIT
F&B	FACE & BYPASS
F&T	FLOAT AND THERMOSTATIC TRAP
FIA	FIRE ALARM
F/SD	FIRE AND SMOKE DAMPER
FC	FLEXIBLE CONNECTION
FCU	FAN COIL UNIT
FD	FLOOR DRAIN OR FIRE DAMPER
FH	FIRE HOSE OR FUME HOOD
FIN	FINISH
FLA	FULL LOAD AMPS
FLR	FLOOR
FOST	FUEL OIL DAY TANK
FOP	FUEL OIL PUMP
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
FOST	FUEL OIL STORAGE TANK
FOV	FUEL OIL VENT
FPB	FAN POWERED BOX
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FS	FLOW SWITCH
FT	FEET OR FLASH TANK
FTG	FOOTING OR FITTING
FTR	FIN TUBE RADIATION
G	GAS, NATURAL
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GH	GRAVITY HOOD
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GV	GAS NATURAL VENT
H	HUMIDIFIER, HUMIDITY OR HEIGHT
HC	HEATING COIL
HCP	HEATING COIL PUMP (HOT WATER)
HD	HEAD
HE	HEAT EXCHANGER
HGT	HEIGHT
HOA	HAND-OFF-AUTOMATIC
HORZ	HORIZONTAL
HOSP	HOSPITAL
HP	HORSEPOWER OR HEATPUMP
HPR	HIGH PRESSURE CONDENSATE RETURN
HPS	HIGH PRESSURE STEAM
HR	HOUR
HRC	HEAT RECOVERY COIL
HTR	HEATER
HVAC	HEATING, VENTILATION AND AIR CONDITIONING
HWCP	HOT WATER CIRCULATING PUMP
HWP	HEATING HOT WATER PUMP
HWR	HEATING HOT WATER RETURN
HWS	HEATING HOT WATER SUPPLY
HX	HEAT EXCHANGER
HZ	HERTZ
IA	INSTRUMENT AIR
IAC	INSTRUMENT AIR COMPRESSOR
IAD	INSTRUMENT AIR DRYER, EQAD
ID	INSIDE DIAMETER OR DIMENSION
IFB	INTEGRAL FACE AND BYPASS
IN	INCHES
INCL	INCLUDE
INSUL	INSULATED
INT	INTERIOR
INV	INVERT
I.P.S.	INTERNATIONAL PIPE SIZING
ISOL	ISOLATION
JT	JOINT
KAIC	SHORT CIRCUIT RATING
KEC	KITCHEN EQUIPMENT CONTRACTOR
KW	KILOWATTS
L	LENGTH
LAC	LAB AIR COMPRESSOR
LAD	LAB AIR DRYER
LAN	LOCAL AREA NETWORK
LAT	LEAVING AIR TEMPERATURE
LBD	LINEAR BAR DIFFUSER
LBS	POUNDS
LD	LINEAR DIFFUSER
LF	LINEAR FOOT
LFO	LAMINAR FLOW DIFFUSER
LFT	LEAVING FLUID TEMPERATURE
LOC	LOCATION
LPR	LOW PRESSURE CONDENSATE RETURN
LPS	LOW PRESSURE STEAM
LVG	LEAVING
LVP	LAB VACUUM PUMP
LWT	LEAVING WATER TEMPERATURE
MAI	MEDICAL AIR INTAKE
MAT	MIXED AIR TEMPERATURE
MAX	MAXIMUM
MBH	BTU/HR X 1000
MC	MECHANICAL CONTRACTOR
MCA	MINIMUM CIRCUIT AMPACITY
MCC	MOTOR CONTROL CENTER
MD	MOTORIZED DAMPER
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MOCP	MAXIMUM OVERCURRENT PROTECTION
MPSR	MEDIUM PRESSURE CONDENSATE RETURN
MPS	MEDIUM PRESSURE STEAM
MTG	MOUNTED
NA	NOT APPLICABLE
NC	NORMALLY CLOSED OR NOISE CRITERIA
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE

ABBREV.	DESCRIPTION
OA	OUTSIDE AIR
OAT	OUTSIDE AIR TEMPERATURE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED/CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED/OWNER INSTALLED
OPER	OPERATOR
OPNG	OPENING
P	PUMP, PNEUMATIC OR PRESSURE
PC	PLUMBING CONTRACTOR
PD	PRESSURE DROP OR PERFORATED DIFFUSER
PE	PNEUMATIC ELECTRIC
PF	PREFILTERS
PG	PROPYLENE GLYCOL
PHC	PREHEAT COIL
PIV	POST INDICATOR VALVE
PLT	PLASTER TRAP
POC	POINT OF CONNECTION
PPH	POUNDS PER HOUR
PPM	PARTS PER MILLION
PRD	PRESSURE RELIEF DOOR
PREFAB	PREFABRICATED
PRES	PRESSURE
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
PVC	POLYVINYL CHLORIDE
RA	RETURN AIR OR RELIEF AIR
RAD	RADIATED
RAT	RETURN AIR TEMPERATURE
RH	REHEAT
REC	RECEIVER
RECIR	RECIRCULATING
REF	REFRIGERATOR
RF	RETURN AIR FAN
RG	RETURN GRILLE
RH	RELIEF HOOD OR RELATIVE HUMIDITY
RHC	REHEAT COIL
RLA	RUNNING LOAD AMPS
RM	ROOM
RP	RADIANT PANELS
RPG	RETURN PERFORATED GRILLE
RPM	REVOLUTIONS PER MINUTE
REQD	REQUIRED
RV	ROOF VENTILATOR
SA	SUPPLY AIR OR SOUND ATTENUATOR
SB	STEAM BOILER
SC	STEAM COIL
SCC	STEAM CONDENSATE COOLER
SCCH	SUBCOOLED CHILLER
SCFM	STANDARD CUBIC FEET PER MINUTE
SCH	SCHEDULE
SCW	SOFT COLD WATER (DOMESTIC)
SD	SUPPLY DIFFUSER OR SMOKE DAMPER
SEC	SECTION
SENS	SENSIBLE
SF	SUPPLY AIR FAN
SG	SUPPLY GRILLE
SHT	SHEET
SMBH	SENSIBLE MBH
SMC	SHEET METAL CONTRACTOR
SP	STATIC PRESSURE OR STORM PUMP
SPEC	SPECIFICATIONS
SQ	SQUARE
SQFT	SQUARE FEET
SRV	SAFETY RELIEF VALVE
ST	STEAM TRAP
STD	STANDARD
STR	STARTER
STRUCT	STRUCTURAL
SV	STEAM VENT
SW	SWITCH
SYS	SYSTEM
T	THERMOSTAT
TB	TERMINAL BOX
TCC	TEMPERATURE CONTROL CONTRACTOR
TCH	TOTAL DISCHARGE HEAD
TDV	TRIPLE DUTY VALVE
TEMP	TEMPERATURE
THW	TEMPERED HOT WATER
TLL	TEMPERATURE LOW LIMIT
TMBH	TOTAL MBH
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
UVL	ULTRA VIOLET LIGHT
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER (MANUAL)
VEL	VELOCITY
VSC	VARIABLE SPEED CONTROLLER
VTR	VENT THROUGH ROOF
W	WASTE, WATTS OR WIDTH
WB	WET BULB
WI	WITH
W/O	WITHOUT
WFMO	WATER FLOW MEASURING DEVICE
WG	WATER GAUGE
WGT	WEIGHT
WP	WEATHERPROOF
WPD	WATER PRESSURE DROP
#	POUND

CONSTRUCTION DOCUMENTS

MEP WORLDWIDE ENGINEERING

53 W. Jackson Blvd, Suite 1601
Chicago, IL 60604
www.trcww.com

PROJECT
BMM LOGISTICS
2004 MINER ST., DES PLANES, IL
BMM TRANSPORTATION, INC.

JOB NUMBER	18SPI452
ISSUE DATE	12/17/2018
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REVISIONS

MARK	DATE	DESCRIPTION

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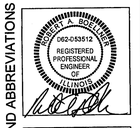

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SYMBOLS AND ABBREVIATIONS

SHEET NUMBER
H001

FAN SCHEDULE

TAG	LOCATION	AREA SERVED	CFM	OUTLET VEL. (FPM)	T.S.P. (IN. WG.)	FAN TYPE	FAN RPM	MOTOR					ACCESS DOOR	BELT DRIVE	DIRECT DRIVE	BELT GUARD	BIRD SCREEN	OUTLET GUARD	DRAIN	GRAVITY BDD	MOTORIZED DAMPER	ROOF CURB	VIBRATION ISOLATION	ROOF PROTECTION SYS	UNIT MTD. DISC. SW.	ALL ALUMINUM	SPECIAL COATING	WALL CAP	WEIGHT (LBS)	DESIGN REFERENCE		NOTES
								HP	RPM	VOLTS	PHASE	CYCLE																			MANUFACTURER	MODEL	
TE-1	MENS/WOMENS RR	RESTROOM	400	0	0.75	CEILING	1380	.3	1380	120	1	60	No	No	Yes	No	No	Yes	No	No	No	No	No	No	Yes	No	No	Yes	47	GREENHECK	SP-A710-VG	
TE-2	PRIVATE RR	RESTROOM	100	0	0.93	CEILING	1050	.3	1050	120	1	60	No	No	Yes	No	No	Yes	No	No	No	No	No	No	Yes	No	No	Yes	13	GREENHECK	SP-B150	

DIFFUSER/GRILLE SCHEDULE

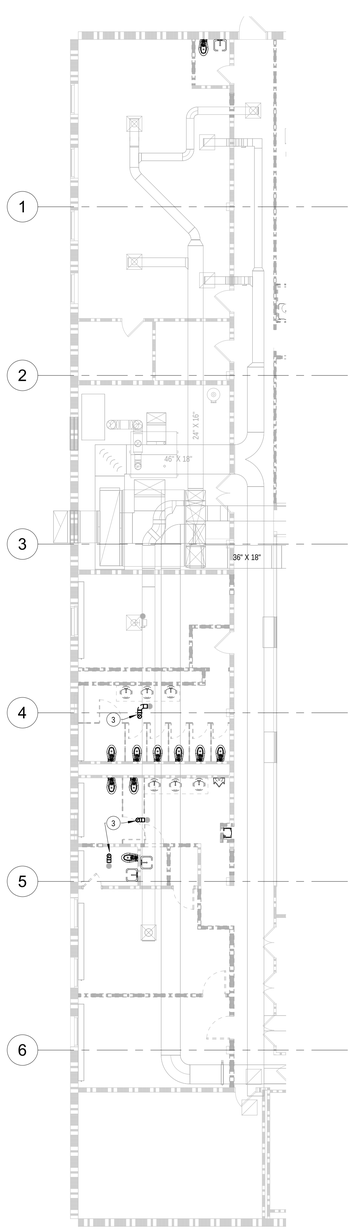
TAG	NECK/INLET SIZE (IN.)	FACE SIZE (IN.)	MIN CORE AREA (SQ. FT)	NOMINAL LENGTH (IN.)	SLOT WIDTH (IN.)	NUMBER OF SLOTS	MATERIAL	FINISH	MAX. NC	MAX THROW (FT)	MAX A.P.D (IN. WG.)	DESIGN REFERENCE		NOTES
												MANUFACTURER	MODEL	
	-	-		-	-	-	STEEL	-	-			PRICE	500	
SD1	8	24 X 24	-	-	-	-	STEEL	WHITE	27	10	0.12	PRICE	SPD	
SD2	10	24 X 24	-	-	-	-	STEEL	WHITE	27	12	0.15	PRICE	SPD	

TOILET ROOM EXHAUST RATE

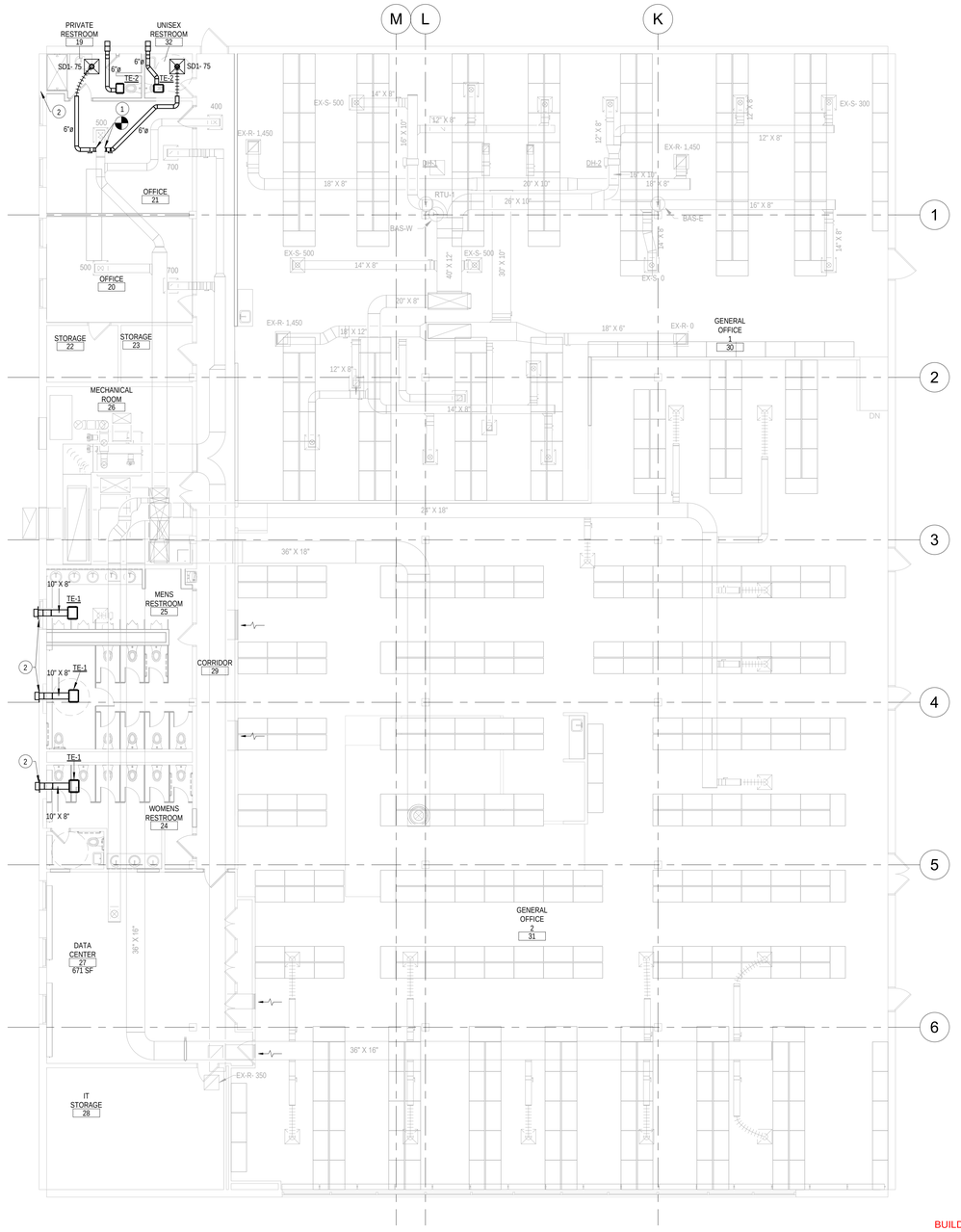
ROOM NAME	ROOM NUMBER	ROOM AREA	FIXTURE COUNT	EXHAUST (CFM)
PRIVATE RESTROOM	19	63 SF	1	100
WOMENS RESTROOM	24	231 SF	7	400
MENS RESTROOM	25	440 SF	13	400
UNISEX RESTROOM	32	39 SF	1	100

PLAN NOTES

1 CONNECT NEW 6" SUPPLY AIR DUCT WITH BALANCING DAMPER TO EXISTING.
2 TERMINATE EXHAUST DUCT WITH WEATHER CAP.
3 REMOVE EXISTING EXHAUST FAN AND EXHAUST DUCT THROUGH ROOF. PATCH ROOF OPENINGS WEATHERTIGHT.



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



2 FIRST FLOOR MECHANICAL PLAN
1/8" = 1'-0"

PLAN NORTH

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ROBERT A. BYCHOWSKI
062-053512
REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS

FIRST FLOOR MECHANICAL DUCTWORK PLAN

SHEET NUMBER
H210

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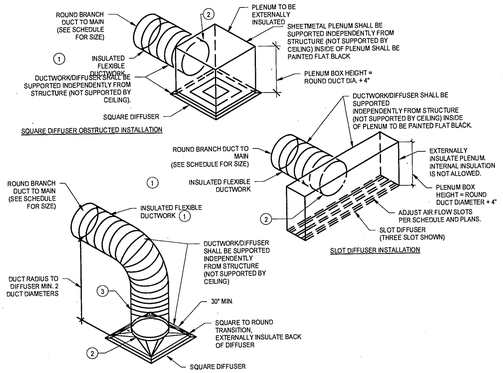
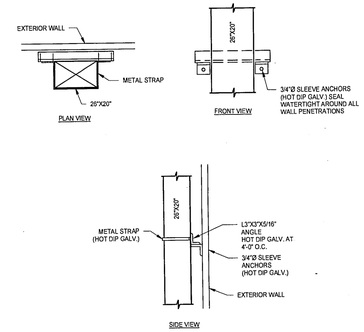


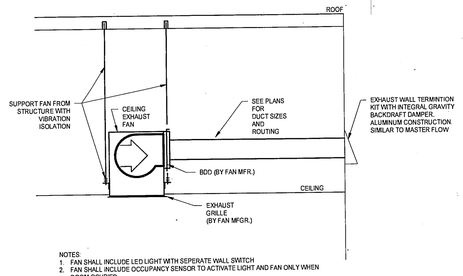
PLAN NOTES

1. A MINIMUM OF FIVE (5) FEET LENGTH OF FLEXIBLE DUCT SHALL BE PROVIDED TO EACH DIFFUSER. DUCTWORK SHALL CONTAIN 180° OF BENDING. FLEXIBLE DUCTWORK LENGTH SHALL NOT EXCEED EIGHTEEN FEET EXCEPT WHERE SPECIFICALLY NOTED. FLEX DUCT SHALL NOT CONTACT CEILING AND SHALL BE PROPERLY SUPPORTED SO AS TO HAVE NO KINKS.
2. TIE-WRAP CONNECT FLEX DUCT HELICAL COIL TO ROUND METAL DIFFUSER NECK AND TO ROUND METAL DUCTWORK AT OTHER END OF FLEX DUCT. PULL FLEX DUCT VAPOR BARRIER OVER LOWER TIE-WRAP AND INSTALL SECOND TIE-WRAP OVER THE VAPOR BARRIER. INSULATE METAL DUCT OR DIFFUSER OVER TOP OF SECOND TIE-WRAP AND INSTALL INSULATOR'S TAPE ON EDGES.
3. PROVIDE A MINIMUM OF 18" OF STRAIGHT, VERTICALLY ORIENTED, FLEXIBLE DUCT AT THE DIFFUSER NECK. IF UNABLE TO PROVIDE STRAIGHT DUCT RUN THEN PROVIDE OBSTRUCTED INSTALLATION PLENUM IN ACCORDANCE WITH THIS DETAIL.

1 DIFFUSER DETAIL
NO SCALE



2 DUCTWORK SUPPORT DETAIL
NO SCALE



NOTES:
1. FAN SHALL INCLUDE LED LIGHT WITH SEPERATE WALL SWITCH
2. FAN SHALL INCLUDE OCCUPANCY SENSOR TO ACTIVATE LIGHT AND FAN ONLY WHEN ROOM OCUPIED.
3. FAN SHALL BE ENERGY STAR COMPLIANT

3 EXHAUST FAN CEILING DETAIL
NO SCALE

BUILDING DEPT

1/09/2019

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ROBERT A. BOSS
062-053512
REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS

HVAC DETAILS

SHEET NUMBER
H801

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