

Autodesk Docs/20-03026-029: City Of Newark Warehouse #2 Expansion/20-03026-029 Newark Warehouse Expansion_Acct.rvt
7/22/2024 9:33:01 AM

DRAWING SET FOR:

NEWARK WAREHOUSE #2 EXPANSION

406 PHILLIPS AVENUE
NEWARK, DE 19711

OWNER:

CITY OF NEWARK, DELAWARE

BID SUBMISSION 7/25/2024



ARCHITECTURE

JOHNSON, MIRMIRAN & THOMPSON, INC.
40 WIGHT AVENUE
HUNT VALLEY, MARYLAND 21030-2059
410.372.4817
WWW.JMTARCHITECTURE.COM

SEAL:



PROJECT:

**NEWARK
WAREHOUSE #2
EXPANSION**

406 PHILLIPS AVENUE
NEWARK, DE 19711

PREPARED FOR:

CITY OF NEWARK,
DELAWARE

MARK	DATE	DESCRIPTION
------	------	-------------

PROJECT NO: 20-03026-029

DATE: 7/25/2024

SCALE: As indicated

DESIGNED BY: DCH

DRAWN BY: CKM

CHECKED BY: DCH

DRAWING TITLE:
COVER SHEET

SHEET NUMBER:

A000

© JMT 2021

ABBREVIATIONS

@	AT
AB	ANCHOR BOLT
ACP	ACOUSTICAL CEILING PANEL
ACT	ACOUSTICAL CEILING TILE
ADA	AMERICANS WITH DISABILITIES ACT
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
ALUM	ALUMINUM
APPROX	APPROXIMATE
ARCH	ARCHITECT

BLDG	BUILDING
BLKG	BLOCKING
BLKHD	BULKHEAD
BO	BOTTOM OF
BOT	BOTTOM
BTWN	BETWEEN
BUR	BUILT-UP ROOFING

CAB	CABINET
CL	CENTER LINE
CLG	CEILING
CLOS	CLOSET
CLR	CLEAR, CLEARANCE
CM	CONSTRUCTION MANAGER
CMU	CONCRETE MASONRY UNIT
CO	CLEANOUT
COL	COLUMN
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
CT	CERAMIC TILE
CW	COLD WATER

D	DEEP, DEPTH
DBL	DOUBLE
DET	DETAIL
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN
DS	DOWNSPOUT
DW	DISHWASHER
DWVG	DRAWING

EA	EACH
EIFS	EXTERIOR INSULATION & FINISH SYSTEM
ELEC	ELECTRIC
EMER	EMERGENCY
ENCL	ENCLOSURE
EPS	EXPANDED POLYSTYRENE BOARD (INSULATION)
EQ	EQUAL
EQUIP	EQUIPMENT
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
EXIST	EXISTING
EXP JT	EXPANSION JOINT
EXT	EXTERIOR

F.O.	FACE OF
FAB	FABRICATED
FD	FLOOR DRAIN
FE(C)	FIRE EXTINGUISHER (CABINET)

FIN	FINISH
FLR(G)	FLOOR(ING)
FLUOR	FLUORESCENT
FOIC	FURNISHED BY OWNER, INSTALLED BY CONTRACTOR
FT(G)	FOOT(ING)
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GL	GLASS / GLAZING
GWB	GYPSUM WALL BOARD
GYP	GYPSUM

H	HIGH
HDR	HEADER
HDWD	HARDWOOD
HDWR	HARDWARE
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HT	HEIGHT
HVAC	HEATING, VENTILATING & AIR CONDITIONING
HW	HOT WATER
HWH	HOT WATER HEATER

ID	INSIDE DIAMETER
INSUL	INSULATION
INT	INTERIOR

JAN	JANITOR
JT	JOINT
L	LONG, LENGTH
LAM	LAMINATE
LB(S)	POUND(S)
LLV	LONG LEG VERTICAL
LT(G)	LIGHT(ING)

MAS	MASONRY
MATL	MATERIAL
MDF	MEDIUM DENSITY FIBERBOARD
MDO	MEDIUM DENSITY OVERLAY
MECH	MECHANICAL
MEMB	MEMBRANE
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MTD	MOUNTED
MTL	METAL

NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE

OA	OVERALL
OC	ON CENTER
OD	OUTSIDE DIAMETER
OH	OVERHEAD
OPNG	OPENING
OPP (HD)	OPPOSITE (HAND)

PART	PARTITION
PLAM	PLASTIC LAMINATE

PLYWD	PLYWOOD
PNL(G)	PANEL(ING)
PR	PAIR
PT	PRESSURE TREATED
PTD	PAINTED
PVF	POLYVINYL FLUORIDE (PLASTIC)

QT	QUARRY / QUARTZ TILE
R	RADIUS
R&R	REVISE & RESUBMIT
RD	ROOF DRAIN
REF	REFRIGERATOR
REINF	REINFORCE
REQ'D	REQUIRED
REV	REVISED, REVISION
RM	ROOM
RO	ROUGH OPENING
RTU	ROOF TOP UNIT

SAN	SANITARY
SC	SOLID CORE
SCHED	SCHEDULE
SECT	SECTION
SF	SQUARE FOOT (FEET)
SG	SEMI-GLOSS
SGL	SINGLE
SHT	SHEET
SIM	SIMILAR
SPEC	SPECIFICATION
SQ	SQUARE
SST	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURAL
SUSP	SUSPEND
SVC	SERVICE
SW	STORM WATER

T	TALL
T&G	TONGUE & GROOVE
TEL	TELEPHONE
TEMP	TEMPORARY
THK	THICKNESS
TO	TOP OF
TYP	TYPICAL

UC	UNDERCUT
UNO	UNLESS NOTED OTHERWISE
UTIL	UTILITY

VAR	VARIES
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VIF	VERIFY IN FIELD

W	WIDE
W/	WITH
W/O	WITHOUT
WC	WATER CLOSET
WD	WOOD
WIN	WINDOW
WSCT	WAINSCOT
WT	WEIGHT

SYMBOLS

NEW CONSTRUCTION		NORTH ARROW	
DOOR NUMBER		EXTERIOR ELEVATION	
DRAWING NOTE		INTERIOR ELEVATION	
ROOM NUMBER		BUILDING SECTION	
TOILET ACCESSORY NO.		WALL SECTION	
CASEWORK NUMBER		DETAIL SECTION	
WINDOWS / STOREFRONT NO.		CALLOUT	
WALL TAGS			
COLUMN REFERENCE			

MATERIALS

EARTH	STONE	GRAVEL/ CRUSHED STONE	MORTAR/ PLASTER/GWB	CONCRETE
PRECAST CONCRETE	BRICK	CONCRETE MASONRY UNIT	STEEL (SMALL SCALE)	STEEL
FINISHED STONE	METAL (ELEVATION)	WOOD (FINISHED)	WOOD (CONTINUOUS BLOCKING)	WOOD (BLOCKING)
PLYWOOD	GLASS (LARGE SCALE)	GLASS (SMALL SCALE)	INSULATION (RIGID)	INSULATION (BLANKET)

Q:\2020\0303026_029_Warehouse_#3_Expanded\CADD\Civil\Cover.dwg
7/23/2024 4:45:47 PM

LEGEND - EXISTING FEATURES

PROPERTY LINE	
ADJOINING PROPERTY LINE	
RIGHT-OF-WAY LINE	
EASEMENT LINE	
CENTER LINE	
BUILDING SETBACK	
CHAIN LINK FENCE	
CHAIN AND POST FENCE	
WOODEN FENCE	
GUIDERAIL	
EDGE OF PAVEMENT	
STREAM	
TREE OR BRUSH LINE	
RAILROAD TRACKS	
MAJOR CONTOUR	
MINOR CONTOUR	
UTILITY GUY WIRE	
UNDERGROUND GAS	
OVERHEAD ELECTRIC	
OVERHEAD ELECTRIC / TELEPHONE	
OVERHEAD ELECTRIC / CABLE	
OVERHEAD ELECTRIC / TELE / CABLE	
OVERHEAD ELEC / TELE / CABLE / FIBER	
UNDERGROUND ELECTRIC	
UNDERGROUND ELECTRIC / TELEPHONE	
UNDERGROUND ELECTRIC / COMMUNICATIONS	
UNDERGROUND ELECTRIC / CABLE	
UNDERGROUND ELECTRIC / TELE / CABLE	
OVERHEAD TELEPHONE	
OVERHEAD TELEPHONE / CABLE	
UNDERGROUND TELEPHONE	
UNDERGROUND TELEPHONE / CABLE	
UNDERGROUND COMMUNICATION	
OVERHEAD CABLE	
UNDERGROUND CABLE	
UNDERGROUND CABLE / FIBER OPTIC	
UNDERGROUND CABLE / UNKNOWN	
UNDERGROUND FIBER OPTIC	
SANITARY SEWER	
STORM DRAIN	
STORM ROOF DRAIN	
STORM UNDER DRAIN	
UNDERGROUND WATER	
OVERHEAD WIRE	
UNDERGROUND UNKNOWN UTILITY	
TRAVERSE OR FLYPOINT	
SITE BENCHMARK	
FOUND CONCRETE MONUMENT (OR AS NOTED)	
FOUND REBAR, IRON PIPE, PK NAIL, OR RAILROAD SPIKE (OR AS NOTED)	
FOUND AXLE (OR AS NOTED)	
FOUND STONE (OR AS NOTED)	
FOUND PROPERTY TREE (OR AS NOTED)	
FENCE POST (OR AS NOTED)	
POINT	
3/4" OR 5/8" REBAR & CAP, MAG, NAIL, OR RAILROAD SPIKE SET (OR AS NOTED)	
DECIDUOUS TREE (OR AS NOTED)	
CONIFEROUS TREE (OR AS NOTED)	
CABLE JUNCTION BOX	
CABLE TV MANHOLE	
UTILITY POLE (ELECTRIC OR TELEPHONE)	
GUY WIRE	
ELECTRIC JUNCTION BOX/TRANSFORMER	
ELECTRIC METER	
ELECTRIC MANHOLE	
LIGHT STANDARD	

GAS MANHOLE	
GAS VALVE	
GAS METER	
GAS VENT	
FILLER CAP	
PETROLEUM GAS MANHOLE	
PETROLEUM GAS VALVE	
UNKNOWN MANHOLE	
UNKNOWN UTILITY POLE	
SANITARY SEWER CLEANOUT	
SANITARY SEWER VENT	
SANITARY SEWER MANHOLE	
STORM DRAIN INLET - TYPE C	
STORM DRAIN INLET - TYPE M	
STORM DRAIN MANHOLE	
DOWNSPOUT	
STORM DRAIN CLEANOUT	
TELEPHONE JUNCTION BOX	
TELEPHONE MANHOLE	
CALLBOX	
UTILITY HANDBOX	
PARKING METER	
TRAFFIC SIGNAL POLE	
TRAFFIC LIGHT	
TRAFFIC LIGHT PEDESTAL	
FIRE HYDRANT	
WATER VALVE	
WATER MANHOLE	
WATER METER	
ROOF DRAIN	
CONCRETE	
BLACKTOP PAVING	
EQUIPMENT STOCKPILES	

STANDARD ABBREVIATIONS - SURVEY

BENCHMARK	BM
CAST IRON PIPE	CIP
CORRUGATED METAL PIPE	CMP
CLEANOUT	CO
CONCRETE	CONC
CORRUGATED POLYETHYLENE PIPE	CPP
DOWNSPOUT	DS
ELEVATION	ELEV
FINISHED FLOOR ELEVATION	FFE
FLYPOINT	FLY
FOUND	FND
PROPERTY LINE	PL
POINT ON LINE	POL
POLYVINYL CHLORIDE PIPE	PVC
REINFORCED CONCRETE PIPE	RCP
REBAR & CAP	R&C
SMOOTH-LINED CORRUGATED POLYETHYLENE PIPE	SLCPP
TO BE SET	TBS
TERRACOTTA PIPE	TCP
TRAVERSE	TRAV
VITRIFIED CLAY PIPE	VCP

LEGEND - PROPOSED FEATURES

PROPERTY LINE	
ADJOINING PROPERTY LINE	
RIGHT-OF-WAY LINE	
EASEMENT LINE	
CENTER LINE	
BUILDING SETBACK	
CHAIN LINK FENCE	
CHAIN AND POST FENCE	
ORNAMENTAL FENCE	
TREE OR BRUSH LINE	
MAJOR CONTOUR	
MINOR CONTOUR	
UNDERGROUND GAS	
UNDERGROUND COMMUNICATION	
UNDERGROUND ELECTRIC	
OVERHEAD ELECTRIC	
SANITARY SEWER	
STORM DRAIN	
UNDERGROUND WATER	
TREE/SHRUB	
UTILITY POLE	
GUY WIRE	
ELECTRIC JUNCTION BOX/TRANSFORMER	
ELECTRIC METER	
OVERHEAD LIGHT FIXTURE	
WALL PACK LIGHT FIXTURE	
GAS VALVE	
SANITARY SEWER MANHOLE	
SANITARY SEWER CLEANOUT	
SANITARY SEWER VENT	
STORMWATER INLET - TYPE C	
STORMWATER INLET - TYPE M	
STORMWATER MANHOLE	
STORMWATER DOWNSPOUT	
STORMWATER CLEANOUT	
FIRE HYDRANT	
WATER VALVE	
WATER METER	
ROADWAY SIGN	
BITUMINOUS PAVEMENT	
HEATED FIBER REINFORCED CEMENT CONCRETE SIDEWALK / FIBER REINFORCED CONCRETE SIDEWALK	
CONCRETE PAVEMENT - HEAVY DUTY	
HEATED CONCRETE PAVEMENT - HEAVY DUTY	
UNDERGROUND DETENTION FACILITY	

LIMIT OF DISTURBANCE BOUNDARY	
NPDES PERMIT BOUNDARY	
TEMPORARY CHAIN LINK FENCE WITH COMPOST FILTER SOCK (12 CFS)	
18" SILT FENCE	
30" SILT FENCE	
SUPER SILT FENCE	
8" COMPOST FILTER SOCK	
12" COMPOST FILTER SOCK	
18" COMPOST FILTER SOCK	
24" COMPOST FILTER SOCK	
32" COMPOST FILTER SOCK	

RIP-RAP APRON	
INLET PROTECTION	
CONCRETE WASHOUT	
EROSION CONTROL MATTING	
ROCK CONSTRUCTION ENTRANCE	

STANDARD ABBREVIATIONS - SITE / CIVIL

TYPICAL	TYP
HIGH POINT / LOW POINT	HP / LP
TOP OF CURB / BOTTOM OF CURB	TC / BC
CLEANOUT	CO
DOWNSPOUT	DS
ELEVATION	ELEV
POLYVINYL CHLORIDE PIPE	PVC
REINFORCED CONCRETE PIPE	RCP
SMOOTH-LINED CORRUGATED POLYETHYLENE PIPE	SLCPP

GENERAL NOTES

- EXISTING UTILITIES DEPICTED HEREON ARE BASED ON VISIBLE FEATURES & DATA FURNISHED BY OTHERS AND ARE NOT ALL INCLUSIVE OR COMPLETE. JMT ASSUMES NO RESPONSIBILITIES FOR THE LOCATION OF THE UTILITIES DEPICTED ON THESE DRAWINGS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING ACTUAL LOCATIONS AND ELEVATIONS OF ALL UTILITIES INCLUDING SERVICES.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE, UNLESS SPECIFICALLY INDICATED ON THE PLANS AS A UTILITY DISCONNECTION OR ABANDONMENT. ANY DAMAGE CAUSED BY THEIR NEGLIGENCE SHALL BE IMMEDIATELY AND COMPLETELY REPAIRED AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL CHECK AND VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
- UNLESS OTHERWISE INDICATED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS FOR THE CONSTRUCTION IMPROVEMENTS PROPOSED ON THIS PLAN.
- THIS DRAWING CONTAINS A GENERAL LIST OF SYMBOLS. NOT ALL ITEMS SHOWN HERE APPEAR ON THE THE CONTRACT DOCUMENTS.
- PLAN LOCATIONS AND DIMENSIONS SHALL BE STRICTLY ADHERED TO UNLESS OTHERWISE DIRECTED BY THE ENGINEER. SUCH PLAN CHANGES, SHOULD THEY BECOME NECESSARY, ARE SUBJECT TO MUNICIPAL AND COUNTY ORDINANCES.
- THE APPROXIMATE TOTAL LIMITS OF DISTURBANCE IS 0.46 AC (20,215 SF).

SURVEY DATA

OWNER:	CITY OF NEWARK
TAX PARCEL NO.:	18-031.00-295
ADDRESS:	406 PHILLIPS AVENUE NEWARK, DE 19711
HORIZONTAL DATUM:	DELAWARE STATE PLANE COORDINATES (NAD83-2011, USFT)
VERTICAL DATUM:	NAVD88 (GEOID 18)
SITE BENCHMARKS:	SET MAG NAILS RP-1157 & RP-1159, & SET CAPPED REBAR GPS-101, AS SHOWN ON PLAN.



SEAL:



PROJECT:

NEWARK WAREHOUSE #2 EXPANSION

406 PHILLIPS AVENUE
NEWARK, DE 19711

PREPARED FOR:

CITY OF NEWARK,
DELAWARE

PROJECT NO: 20-03026-029

DATE: 07/25/2024

SCALE: 1" = 10'

DESIGNED BY: NB

DRAWN BY: RK

CHECKED BY: NB

DRAWING TITLE:

NOTES-LEGEND

SHEET NUMBER:

C-001

DEMOLITION NOTES

- 1

PROTECT AND MAINTAIN EXISTING FENCING, FENCE POSTS, AND GATES WITHIN LIMITS OF THE PROPOSED IMPROVEMENTS.
- 2

PROTECT AND MAINTAIN EXISTING SIGN AND SIGN POST.
- 3

REMOVE EXISTING STRUCTURE, INCLUDING CONCRETE SLAB AND ASSOCIATED FOOTINGS AND UTILITIES.
- 4

REMOVE EXISTING CATCH BASIN BOX, FRAME, GRATE, AND ASSOCIATE PIPE. CONTRACTOR TO REMOVE AND CAP PIPE AS REQUIRED FOR THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS.
- 5

PROTECT AND MAINTAIN EXISTING UTILITY POLE AND GUY WIRE
- 6

THE CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE OWNER AND/OR ENGINEER FOR ANY AND ALL INJURIES AND/OR DAMAGES TO PERSONNEL, EQUIPMENT AND/OR EXISTING FACILITIES IN THE DEMOLITION AND CONSTRUCTION DESCRIBED IN THE PLANS AND SPECIFICATIONS.
- 7

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO EXAMINE THE SITE AND BE FAMILIAR WITH EXISTING CONDITIONS PRIOR TO BIDDING ON THE WORK FOR THIS PROJECT. IF THE CONDITIONS ENCOUNTERED DURING EXAMINATION ARE SIGNIFICANTLY DIFFERENT THAN THOSE SHOWN, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
- 8

ALL DEMOLITION WASTE AND CONSTRUCTION DEBRIS SHALL BE REMOVED BY THE CONTRACTOR AND DISPOSED OF IN A STATE APPROVED WASTE SITE AND IN ACCORDANCE WITH ALL LOCAL AND STATE CODES AND PERMIT REQUIREMENTS.
- 9

SAW CUT NEAT, STRAIGHT, SHARP, VERTICAL LINE AT PAVEMENT REPAIR / REMOVAL LIMITS AND WHERE PROPOSED PAVEMENT ABUTS EXISTING PAVEMENT.
- 10

ASBESTOS OR HAZARDOUS MATERIALS, IF FOUND ON SITE, SHALL BE REMOVED BY A LICENSED HAZARDOUS MATERIALS CONTRACTOR. CONTRACTOR SHALL NOTIFY OWNER IMMEDIATELY IF HAZARDOUS MATERIALS ARE ENCOUNTERED.
- 11

CONTRACTOR SHALL PROTECT ALL CORNER PINS, MONUMENTS, PROPERTY CORNERS, AND BENCHMARKS DURING DEMOLITION ACTIVITIES. IF DISTURBED, CONTRACTOR SHALL HAVE DISTURBED ITEMS RESET BY A LICENSED SURVEYOR AT NO ADDITIONAL COST TO THE OWNER.
- 12

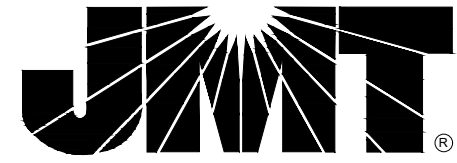
CONTRACTOR SHALL ADHERE TO ALL LOCAL, STATE, FEDERAL, AND OSHA REGULATIONS WHEN OPERATING DEMOLITION EQUIPMENT AROUND UTILITIES AND ESPECIALLY EXISTING OVERHEAD POWER LINES.
- 13

CONTRACTOR SHALL PROTECT AT ALL TIMES ADJACENT STRUCTURES AND ITEMS FROM DAMAGE DUE TO DEMOLITION ACTIVITIES.
- 14

CONTRACTOR SHALL REFER TO OTHER PLANS WITHIN THIS CONSTRUCTION SET FOR OTHER PERTINENT INFORMATION.
- 15

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK ZONE SAFETY AS MANDATED BY OSHA, THE COUNTY, OR THE OWNERS AUTHORIZED REPRESENTATIVE.

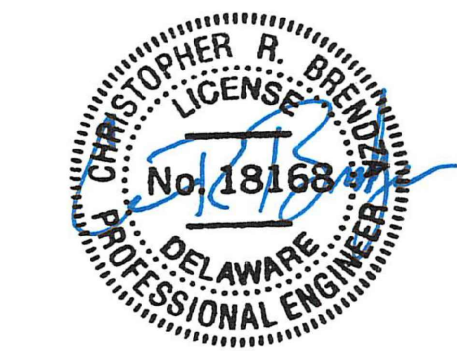




ARCHITECTURE

JOHNSON, MIRMIRAN & THOMPSON, INC.
40 WIGHT AVENUE
HUNT VALLEY, MARYLAND 21030-2059
410.372.4617
WWW.JMTARCHITECTURE.COM

SEAL:



PROJECT:

**NEWARK
WAREHOUSE #2
EXPANSION**

406 PHILLIPS AVENUE
NEWARK, DE 19711

PREPARED FOR:

**CITY OF NEWARK,
DELAWARE**

PROJECT NO: 20-03026-029

DATE: 07/25/2024

SCALE: 1" = 10'

DESIGNED BY: NB

DRAWN BY: RK

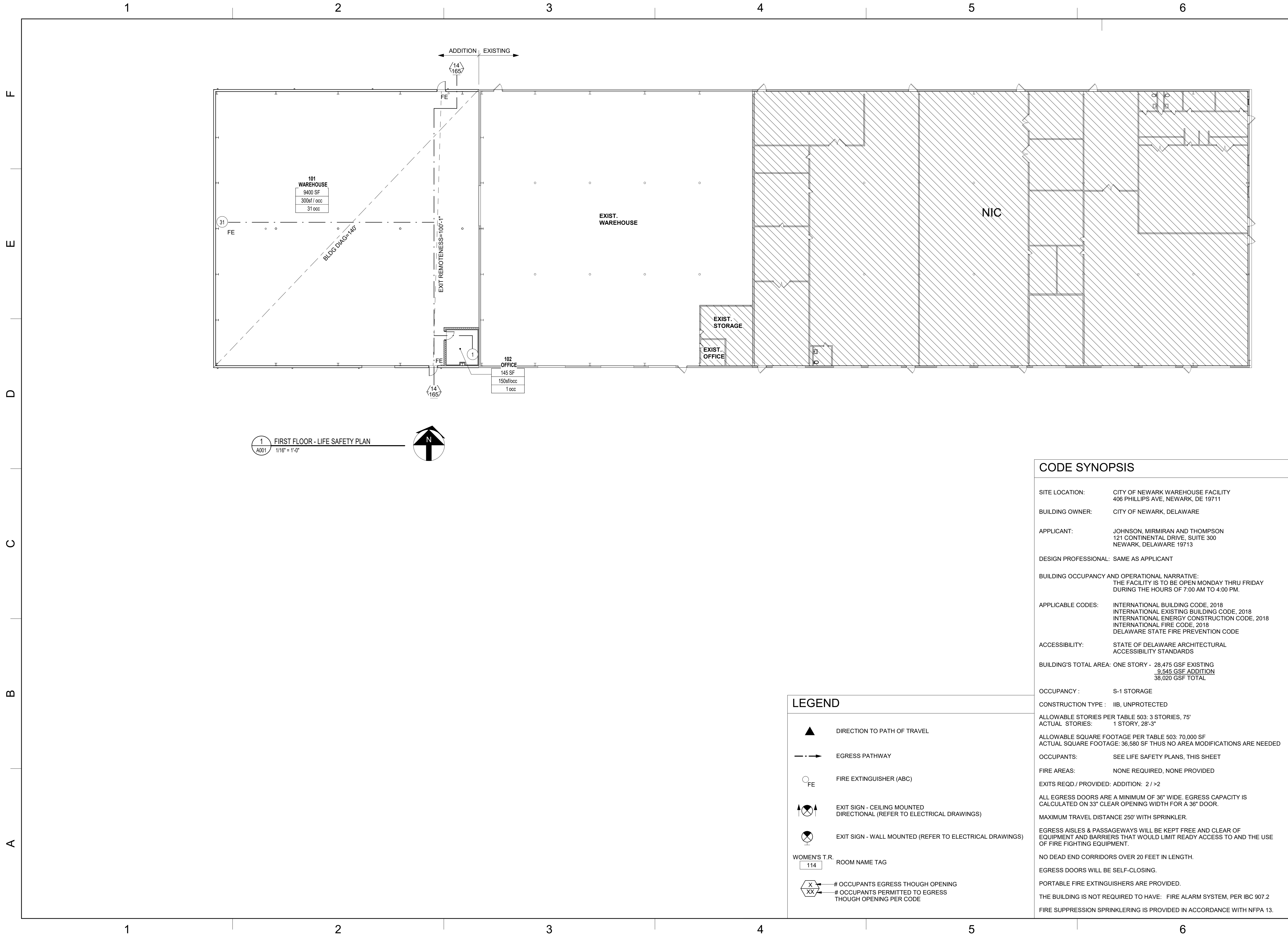
CHECKED BY: NB

DRAWING TITLE:
**EXISTING CONDITIONS
AND DEMOLITION PLAN**

SHEET NUMBER:

C-002

Autodesk Docs/20-03026-029- City Of Newark Warehouse #3 Expansion/20-03026-029 Newark Warehouse Expansion_Arch.rvt
7/22/2024 9:33:02 AM



CODE SYNOPSIS

SITE LOCATION: CITY OF NEWARK WAREHOUSE FACILITY
406 PHILLIPS AVE, NEWARK, DE 19711

BUILDING OWNER: CITY OF NEWARK, DELAWARE

APPLICANT: JOHNSON, MIRMIRAN AND THOMPSON
121 CONTINENTAL DRIVE, SUITE 300
NEWARK, DELAWARE 19713

DESIGN PROFESSIONAL: SAME AS APPLICANT

BUILDING OCCUPANCY AND OPERATIONAL NARRATIVE:
THE FACILITY IS TO BE OPEN MONDAY THRU FRIDAY
DURING THE HOURS OF 7:00 AM TO 4:00 PM.

APPLICABLE CODES: INTERNATIONAL BUILDING CODE, 2018
INTERNATIONAL EXISTING BUILDING CODE, 2018
INTERNATIONAL ENERGY CONSTRUCTION CODE, 2018
INTERNATIONAL FIRE CODE, 2018
DELAWARE STATE FIRE PREVENTION CODE

ACCESSIBILITY: STATE OF DELAWARE ARCHITECTURAL
ACCESSIBILITY STANDARDS

BUILDING'S TOTAL AREA: ONE STORY - 28,475 GSF EXISTING
9,545 GSF ADDITION
38,020 GSF TOTAL

OCCUPANCY : S-1 STORAGE

CONSTRUCTION TYPE : IIB, UNPROTECTED

ALLOWABLE STORIES PER TABLE 503: 3 STORIES, 75'
ACTUAL STORIES: 1 STORY, 28'-3"

ALLOWABLE SQUARE FOOTAGE PER TABLE 503: 70,000 SF
ACTUAL SQUARE FOOTAGE: 36,580 SF THUS NO AREA MODIFICATIONS ARE NEEDED

OCCUPANTS: SEE LIFE SAFETY PLANS, THIS SHEET

FIRE AREAS: NONE REQUIRED, NONE PROVIDED

EXITS REQD./ PROVIDED: ADDITION: 2 / >2

ALL EGRESS DOORS ARE A MINIMUM OF 36" WIDE. EGRESS CAPACITY IS
CALCULATED ON 33" CLEAR OPENING WIDTH FOR A 36" DOOR.

MAXIMUM TRAVEL DISTANCE 250' WITH SPRINKLER.

EGRESS AISLES & PASSAGEWAYS WILL BE KEPT FREE AND CLEAR OF
EQUIPMENT AND BARRIERS THAT WOULD LIMIT READY ACCESS TO AND THE USE
OF FIRE FIGHTING EQUIPMENT.

NO DEAD END CORRIDORS OVER 20 FEET IN LENGTH.

EGRESS DOORS WILL BE SELF-CLOSING.

PORTABLE FIRE EXTINGUISHERS ARE PROVIDED.

THE BUILDING IS NOT REQUIRED TO HAVE: FIRE ALARM SYSTEM, PER IBC 907.2

FIRE SUPPRESSION SPRINKLERING IS PROVIDED IN ACCORDANCE WITH NFPA 13.

LEGEND

- ▲ DIRECTION TO PATH OF TRAVEL
- EGRESS PATHWAY
- FE FIRE EXTINGUISHER (ABC)
- EXIT SIGN - CEILING MOUNTED
DIRECTIONAL (REFER TO ELECTRICAL DRAWINGS)
- EXIT SIGN - WALL MOUNTED (REFER TO ELECTRICAL DRAWINGS)
- WOMEN'S T.R.
114 ROOM NAME TAG
- X XX # OCCUPANTS EGRESS THOUGH OPENING
XX # OCCUPANTS PERMITTED TO EGRESS
THOUGH OPENING PER CODE

JMT
ARCHITECTURE

JOHNSON, MIRMIRAN & THOMPSON, INC.
40 WIGHT AVENUE
HUNT VALLEY, MARYLAND 21030-2059
410.372.4617
WWW.JMTARCHITECTURE.COM

SEAL:



PROJECT:

NEWARK WAREHOUSE #2 EXPANSION

406 PHILLIPS AVENUE
NEWARK, DE 19711

PREPARED FOR:

CITY OF NEWARK,
DELAWARE

MARK	DATE	DESCRIPTION

PROJECT NO: 20-03026-029
DATE: 7/25/2024
SCALE: As indicated
DESIGNED BY: DCH
DRAWN BY: CKM
CHECKED BY: DCH

DRAWING TITLE:
CODE COMPLIANCE
AND EGRESS

SHEET NUMBER:
A001

Autodesk Docs/20-03026-029- City Of Newark Warehouse #3 Expansion/20-03026-029 Newark Warehouse Expansion_Arch.rvt
7/22/2024 9:33:06 AM

F
E
D
C
B
A

1

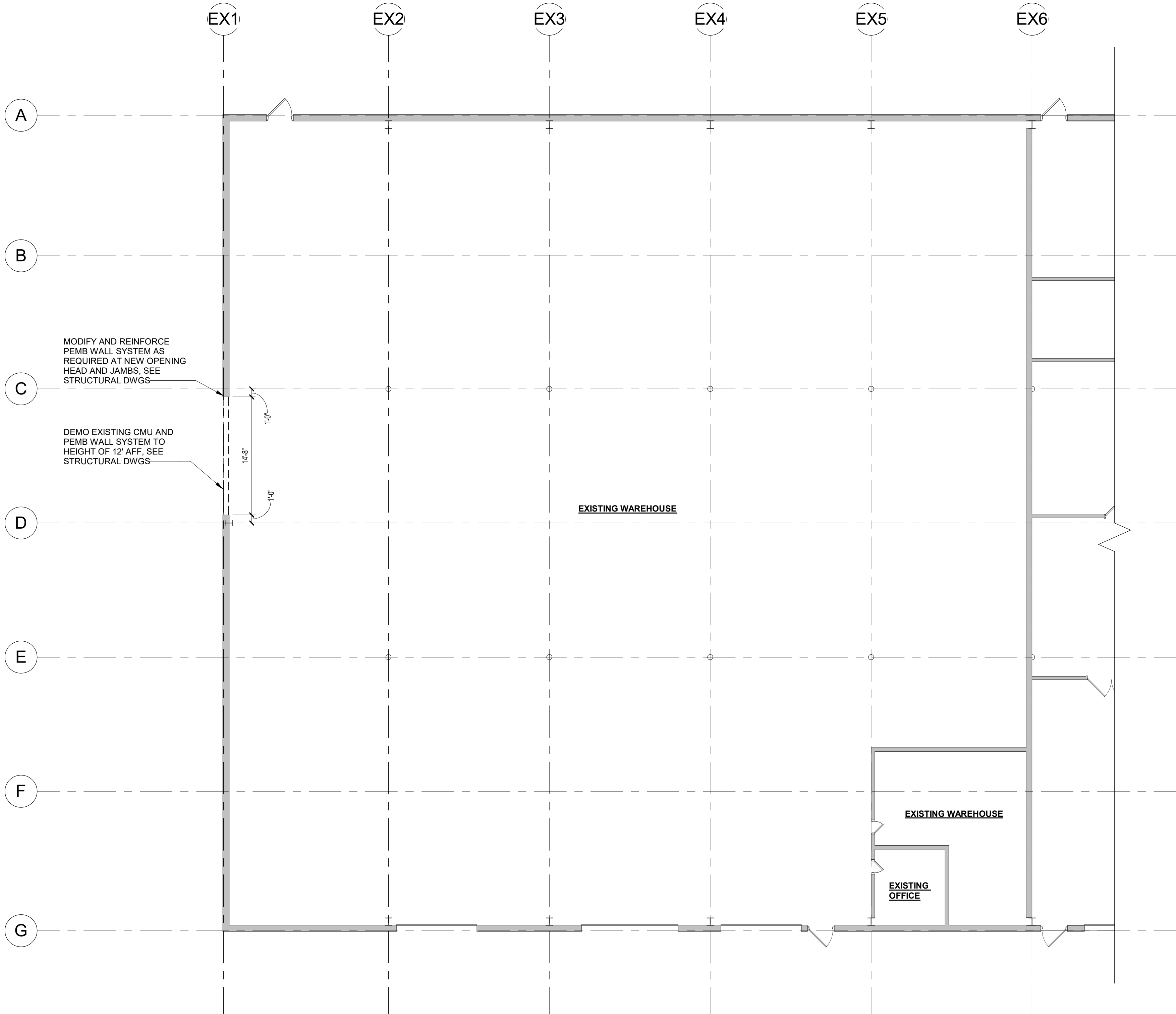
2

3

4

5

6



1 DEMOLITION FLOOR PLAN
AD101 1/8" = 1'-0"



JOHNSON, MIRMIRAN & THOMPSON, INC.
40 WIGHT AVENUE
HUNT VALLEY, MARYLAND 21030-2059
410.372.4617
WWW.JMTARCHITECTURE.COM

SEAL:



PROJECT:

**NEWARK
WAREHOUSE #2
EXPANSION**

406 PHILLIPS AVENUE
NEWARK, DE 19711

PREPARED FOR:

**CITY OF NEWARK,
DELAWARE**

PROJECT NO: 20-03026-029

DATE: 7/25/2024

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

DESIGNED BY: DCH

DRAWN BY: CKM

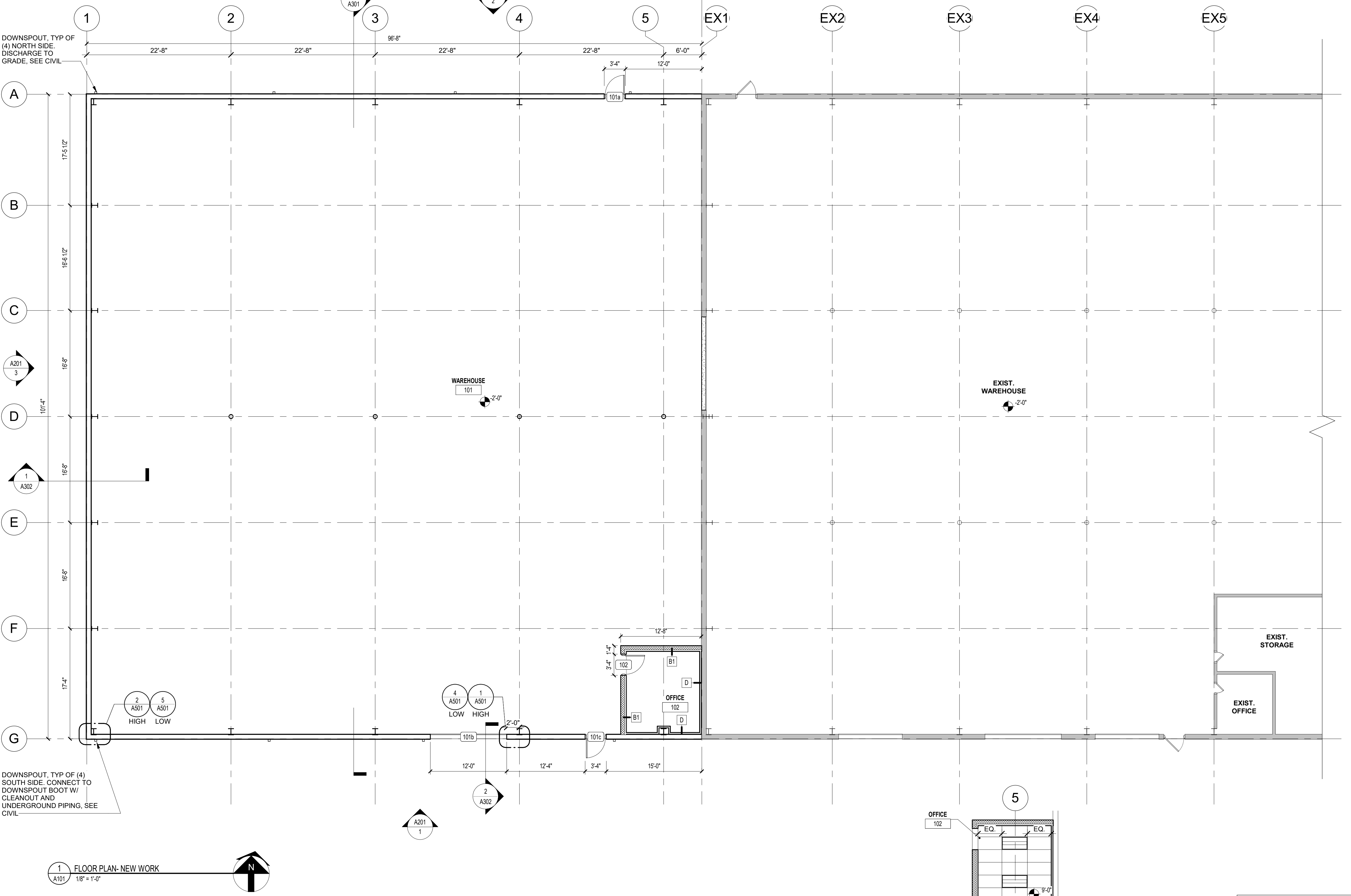
CHECKED BY: DCH

DRAWING TITLE:

DEMO PLAN

SHEET NUMBER:

AD101



NEWARK WAREHOUSE #2 EXPANSION

406 PHILLIPS AVENUE
NEWARK, DE 19711

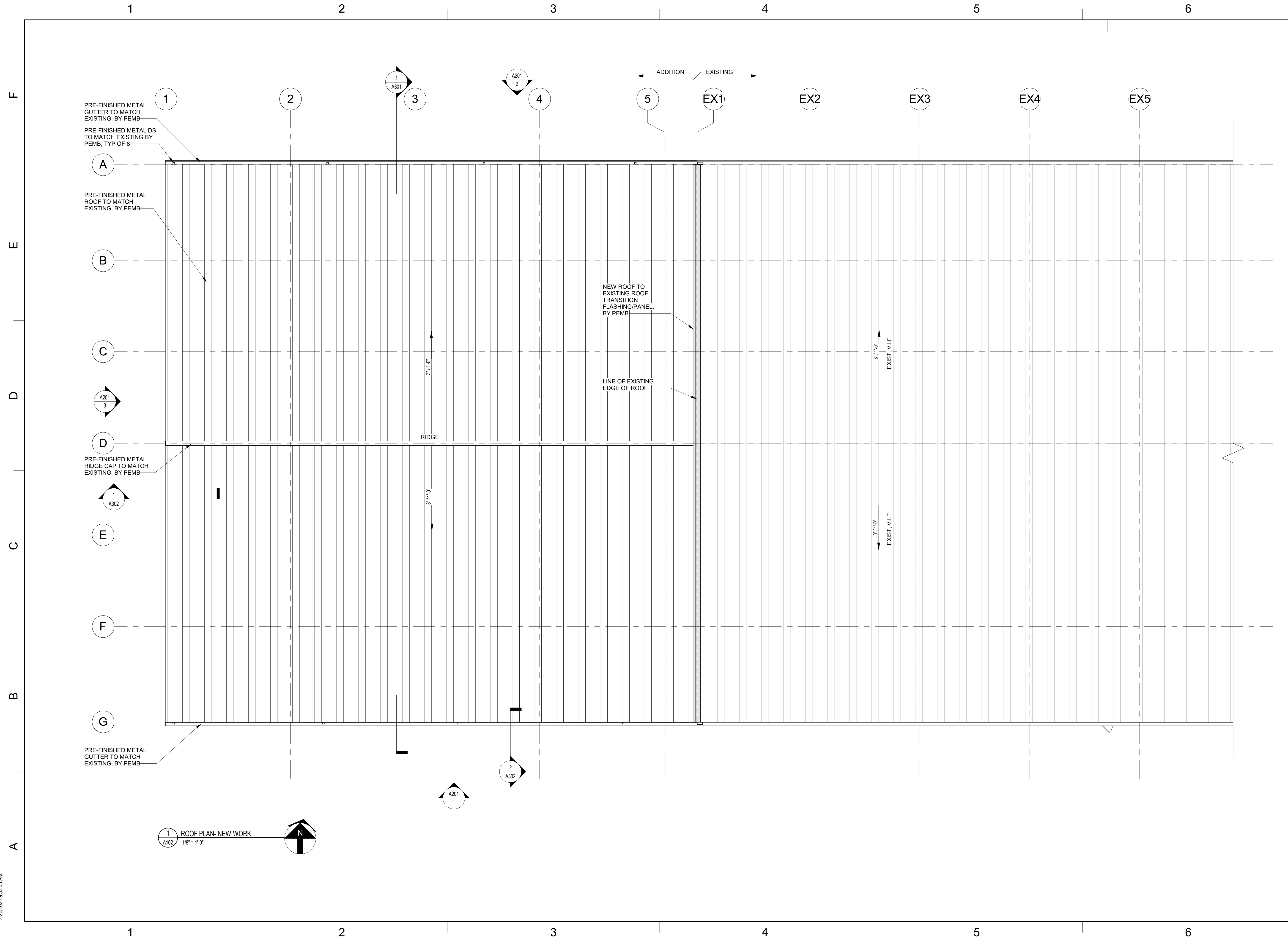
CITY OF NEWARK,
DELAWARE

MARK	DATE	DESCRIPTION

PROJECT NO:	20-03026-029
DATE:	7/25/2024
SCALE:	1/8" = 1'-0"
DESIGNED BY:	DCH
DRAWN BY:	CKM
CHECKED BY:	DCH

DRAWING TITLE:
NEW WORK FLOOR
PLAN

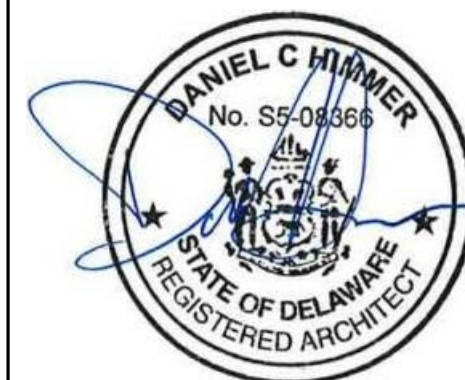
A101



ARCHITECTURE

JOHNSON, MIRMIRAN & THOMPSON, INC.
40 WIGHT AVENUE
HUNT VALLEY, MARYLAND 21030-2059
410.372.4617
WWW.JMTARCHITECTURE.COM

SEAL:



PROJECT:

NEWARK WAREHOUSE #2 EXPANSION

406 PHILLIPS AVENUE
NEWARK, DE 19711

PREPARED FOR:

CITY OF NEWARK,
DELAWARE

MARK	DATE	DESCRIPTION

PROJECT NO: 20-03026-029

DATE: 7/25/2024

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

DESIGNED BY: DCH

DRAWN BY: CKM

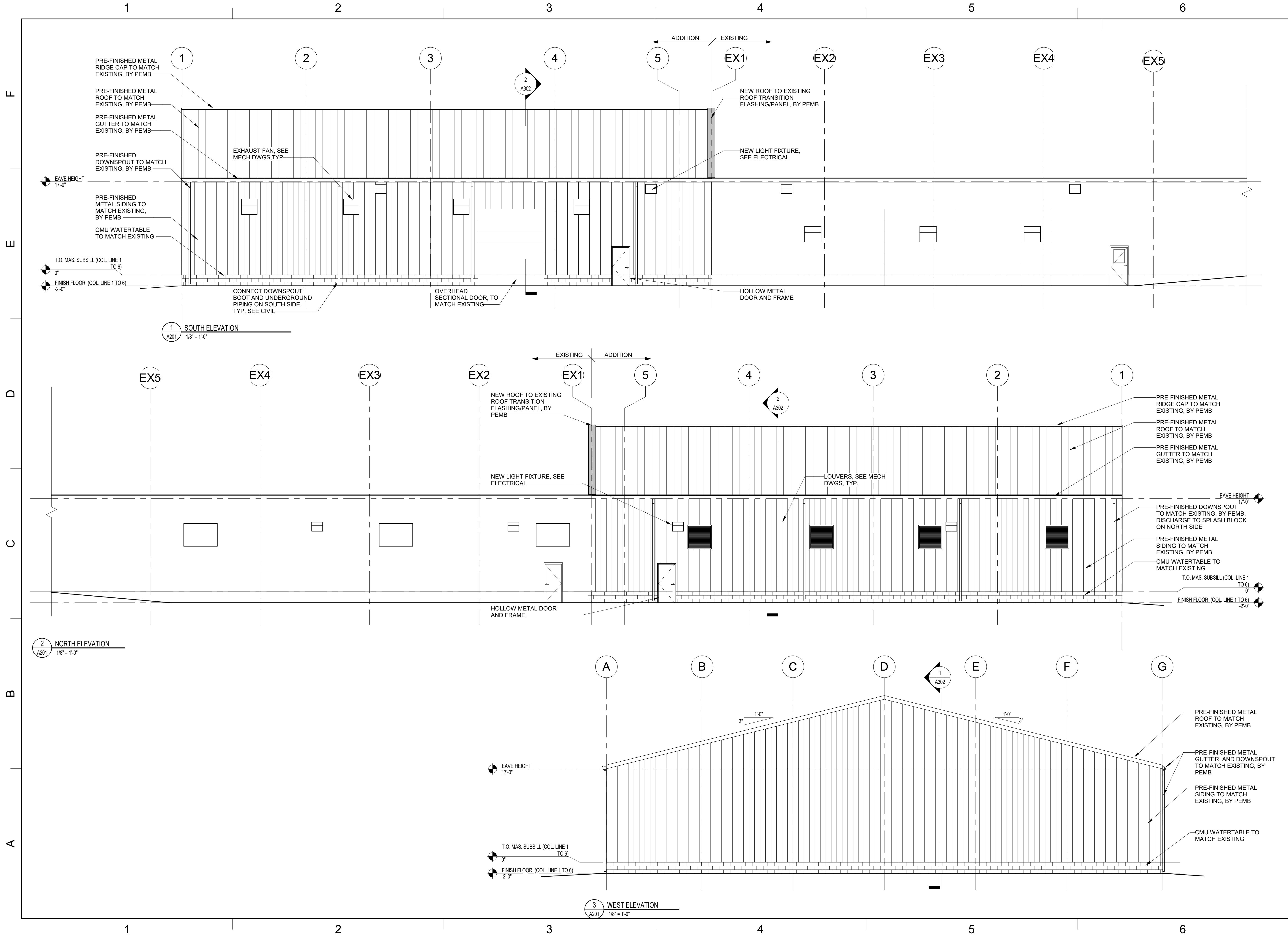
DRAWING TITLE:

NEW WORK ROOF PLAN

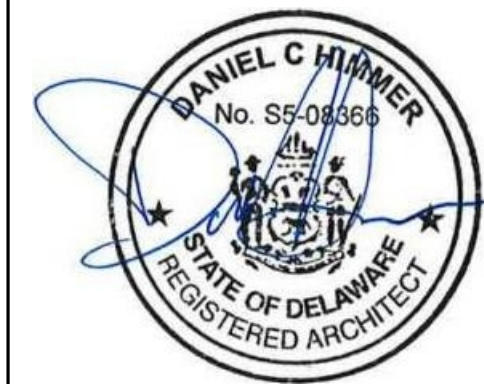
SHEET NUMBER:

A102

A:\Autodesk Docs\20-03026-029 - City Of Newark Warehouse #3 Expansion\20-03026-029 Newark Warehouse Expansion_Arch.rvt
7/22/2024 9:33:04 AM



SEAL:



PROJECT:

**NEWARK
WAREHOUSE #2
EXPANSION**

406 PHILLIPS AVENUE
NEWARK, DE 19711

PREPARED FOR:

**CITY OF NEWARK,
DELAWARE**

PROJECT NO: 20-03026-029

DATE: 7/25/2024

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

DESIGNED BY: DCH

DRAWN BY: CKM

CHECKED BY: DCH

DRAWING TITLE:

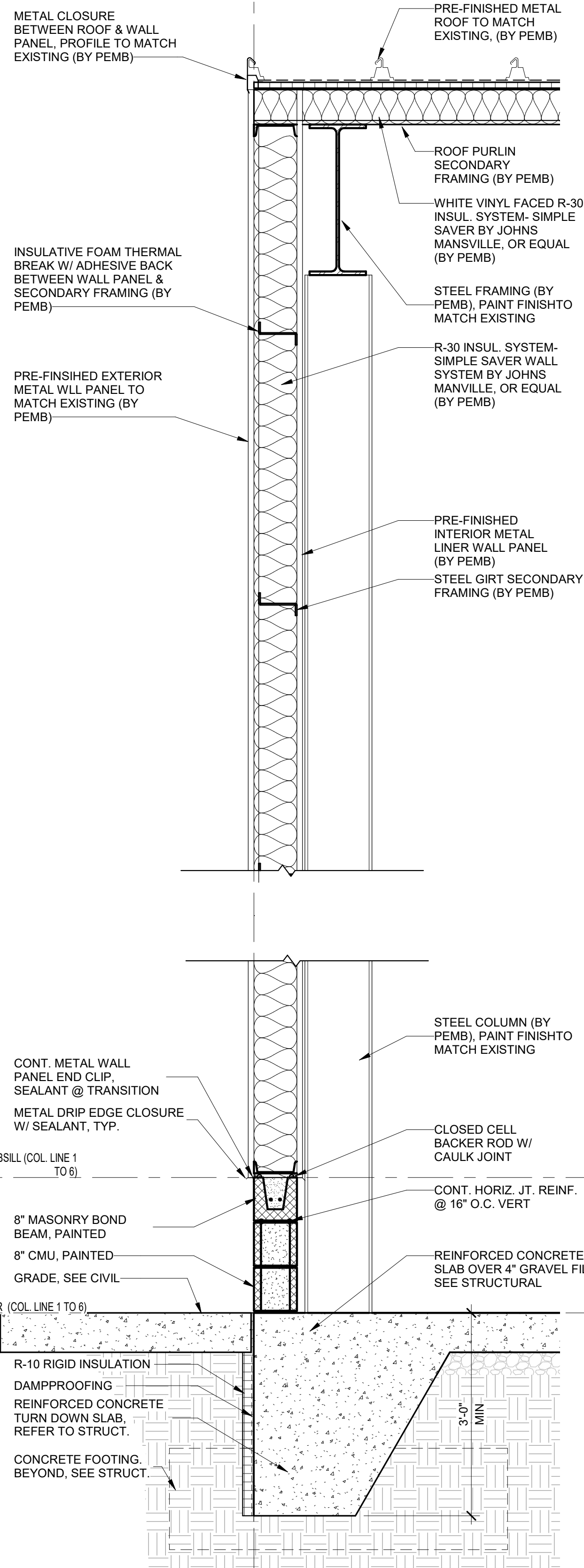
BUILDING ELEVATIONS

SHEET NUMBER:

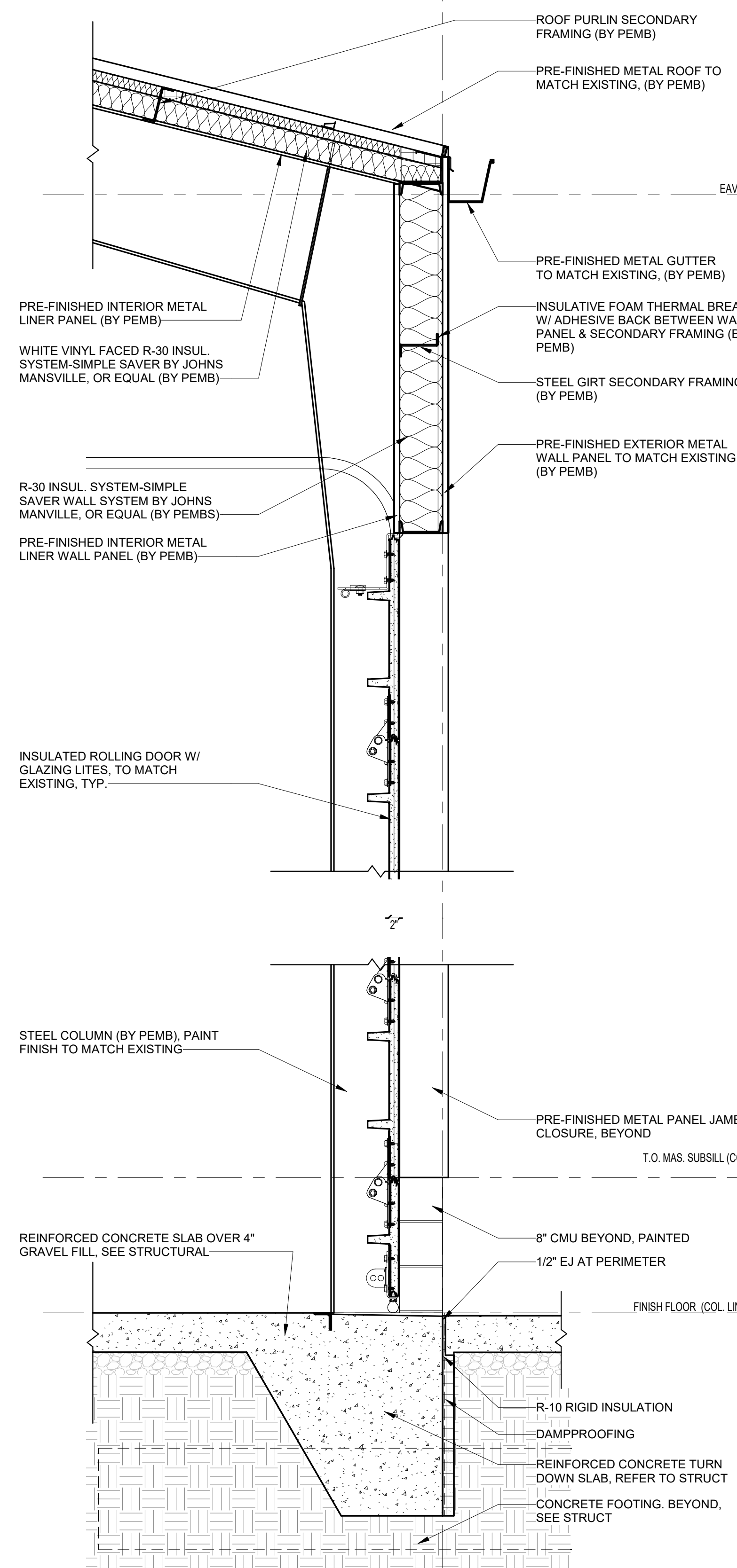
A201



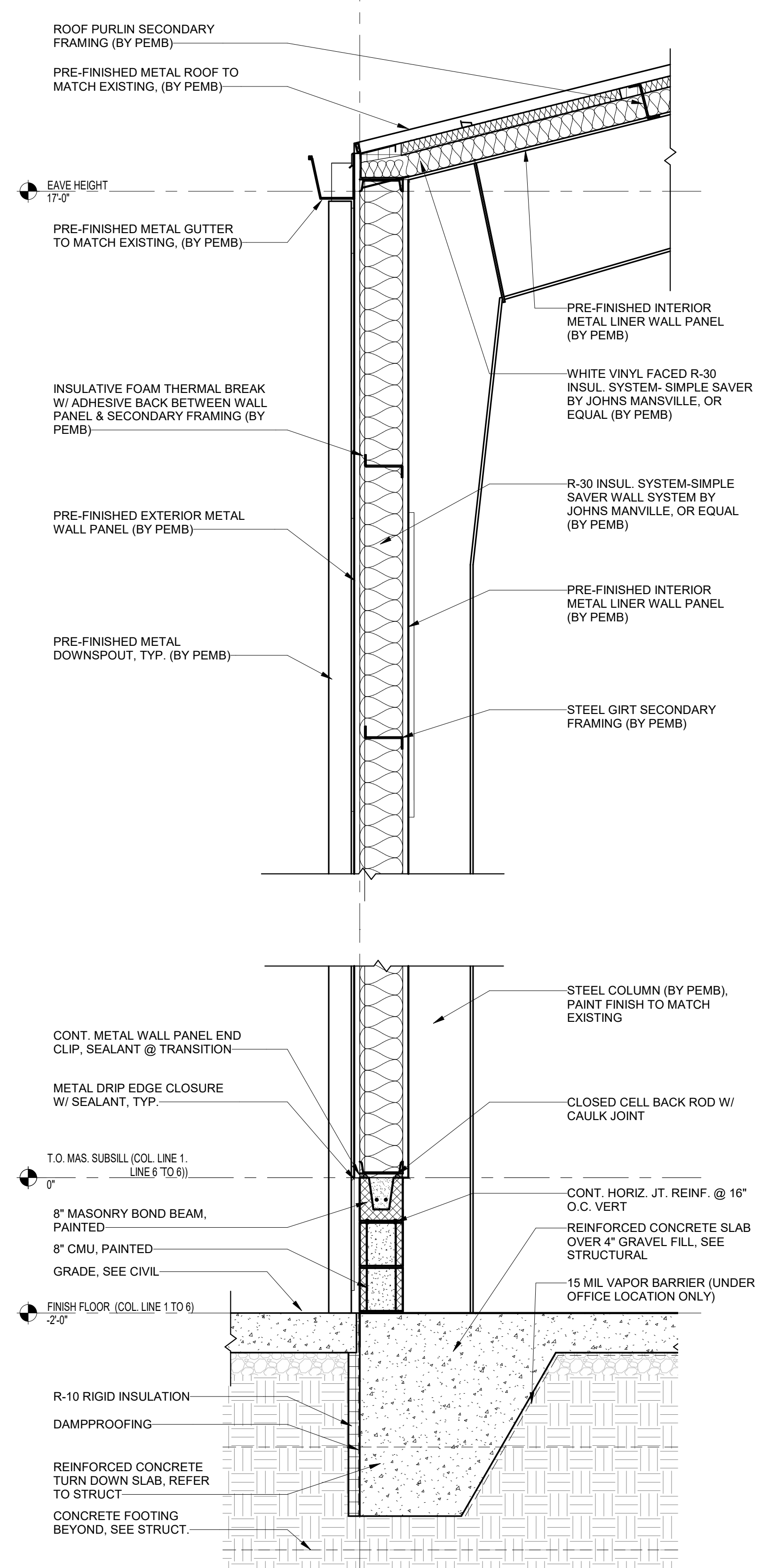
A:\Architect\Drawings\20-03026-029 - City Of Newark Warehouse #3 Expansion\20-03026-029 Newark Warehouse Expansion_Arch.rvt
7/22/2024 9:33:05 AM



1 WALL SECTION @ ENDWALL
A302 3/4" = 1'-0"

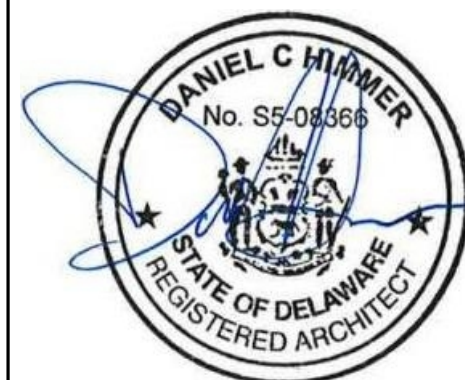


2 WALL SECTION @ OVERHEAD DOOR
A302 3/4" = 1'-0"



3 TYP. WALL SECTION
A302 3/4" = 1'-0"

SEAL:



PROJECT:

**NEWARK
WAREHOUSE #2
EXPANSION**

406 PHILLIPS AVENUE
NEWARK, DE 19711

PREPARED FOR:

**CITY OF NEWARK,
DELAWARE**

MARK	DATE	DESCRIPTION
PROJECT NO: 20-03026-029		
DATE: 7/25/2024		
SCALE: 3/4" = 1'-0"		
DESIGNED BY: DCH		
DRAWN BY: CKM		
CHECKED BY: DCH		

DRAWING TITLE:
WALL SECTIONS

SHEET NUMBER:

A302

A:\Autodesk Docs\20-03026-029- City Of Newark Warehouse #3 Expansion\20-03026-029 Newark Warehouse Expansion_Arch.rvt
7/22/2024 9:33:05 AM

F

E

D

C

B

A

1

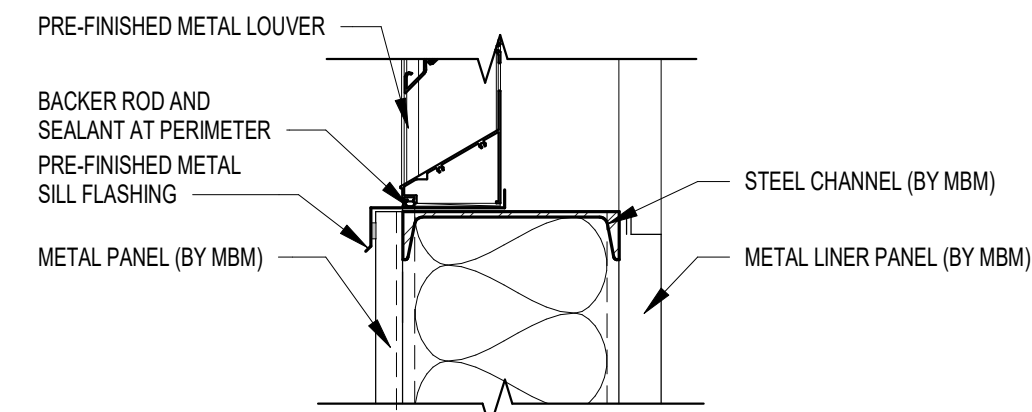
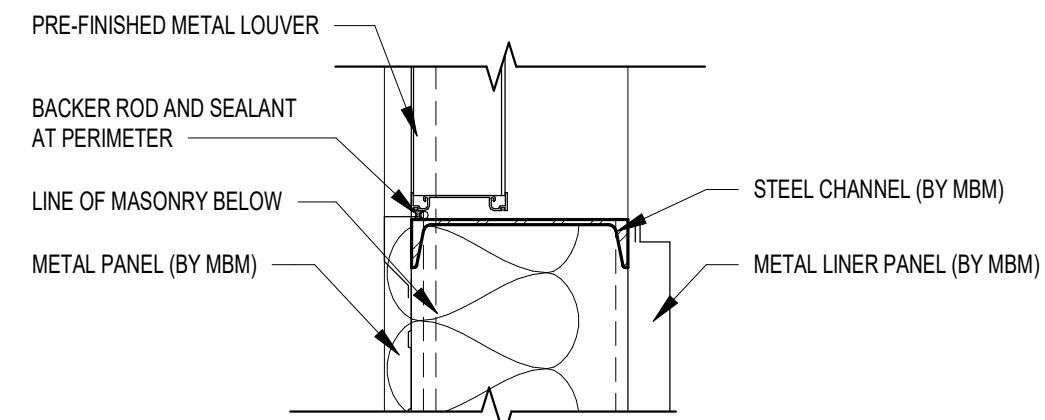
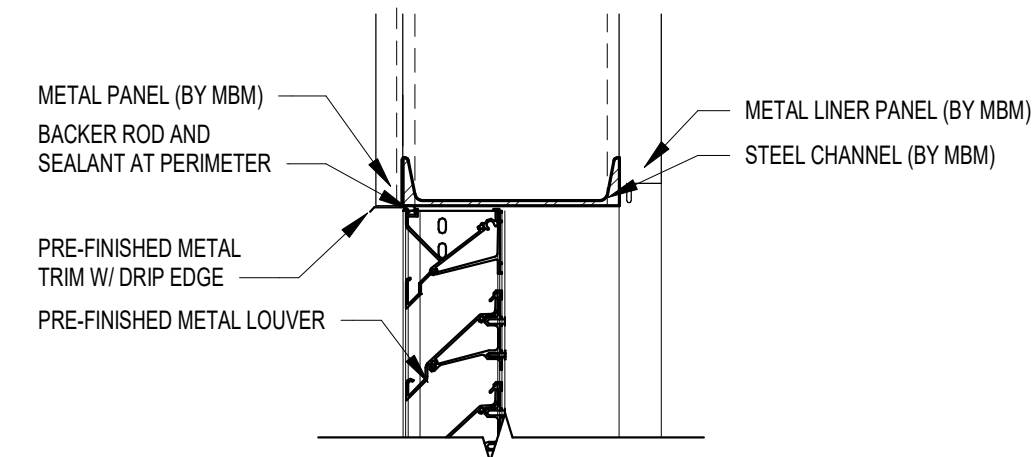
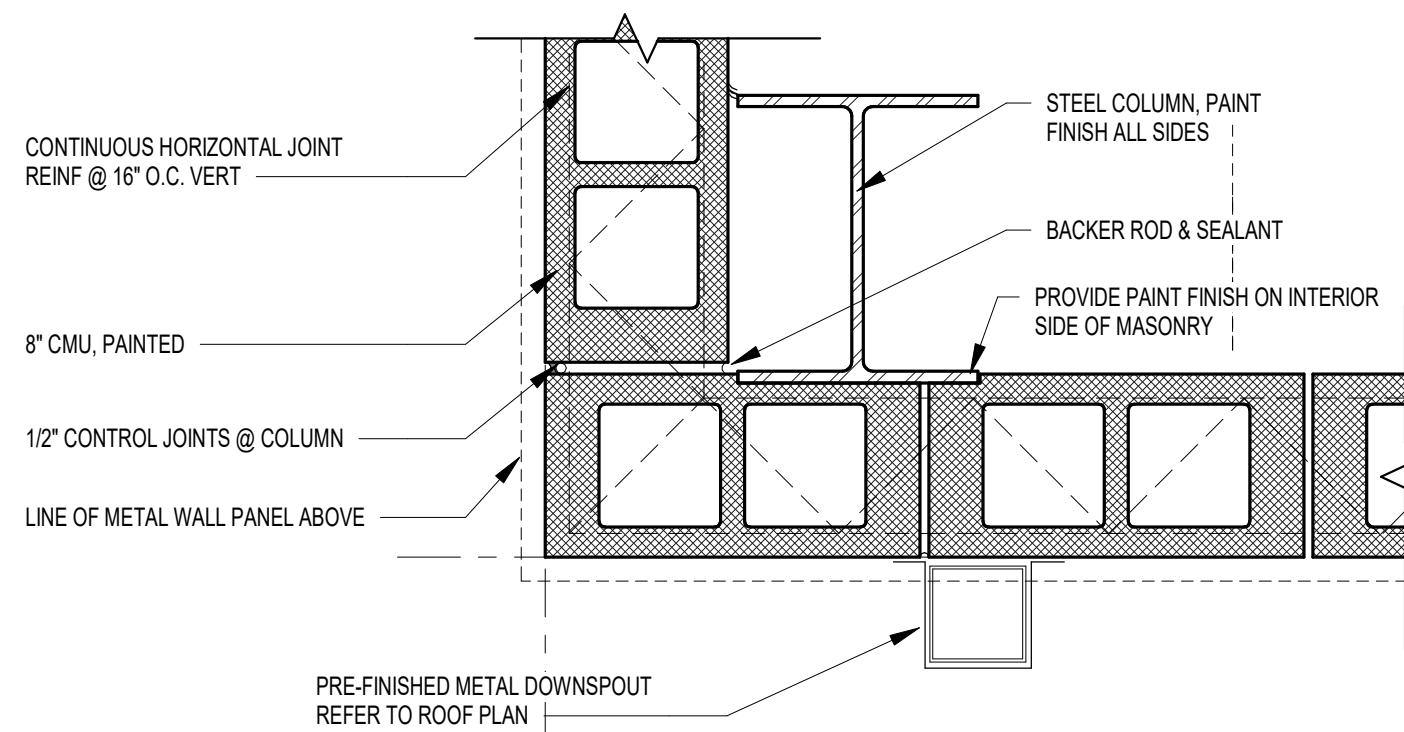
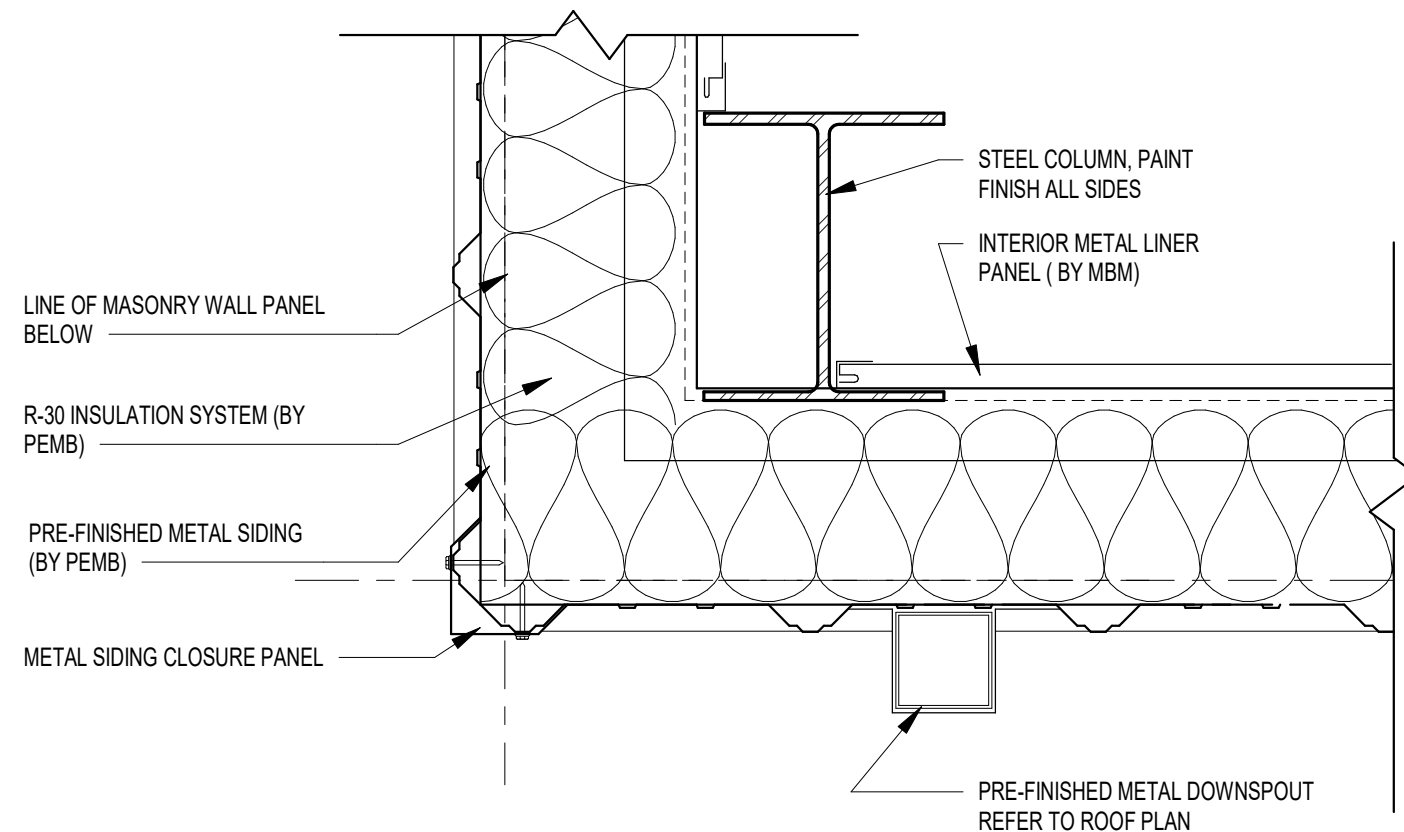
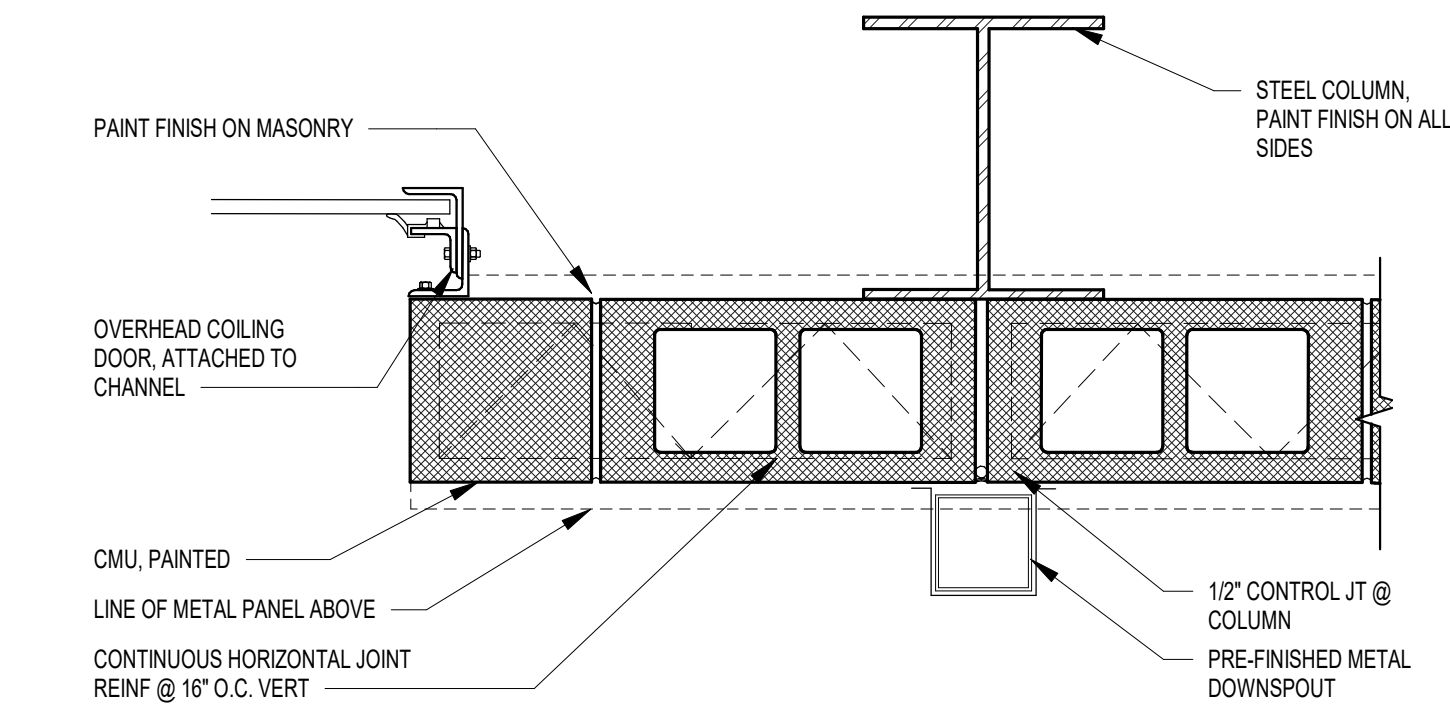
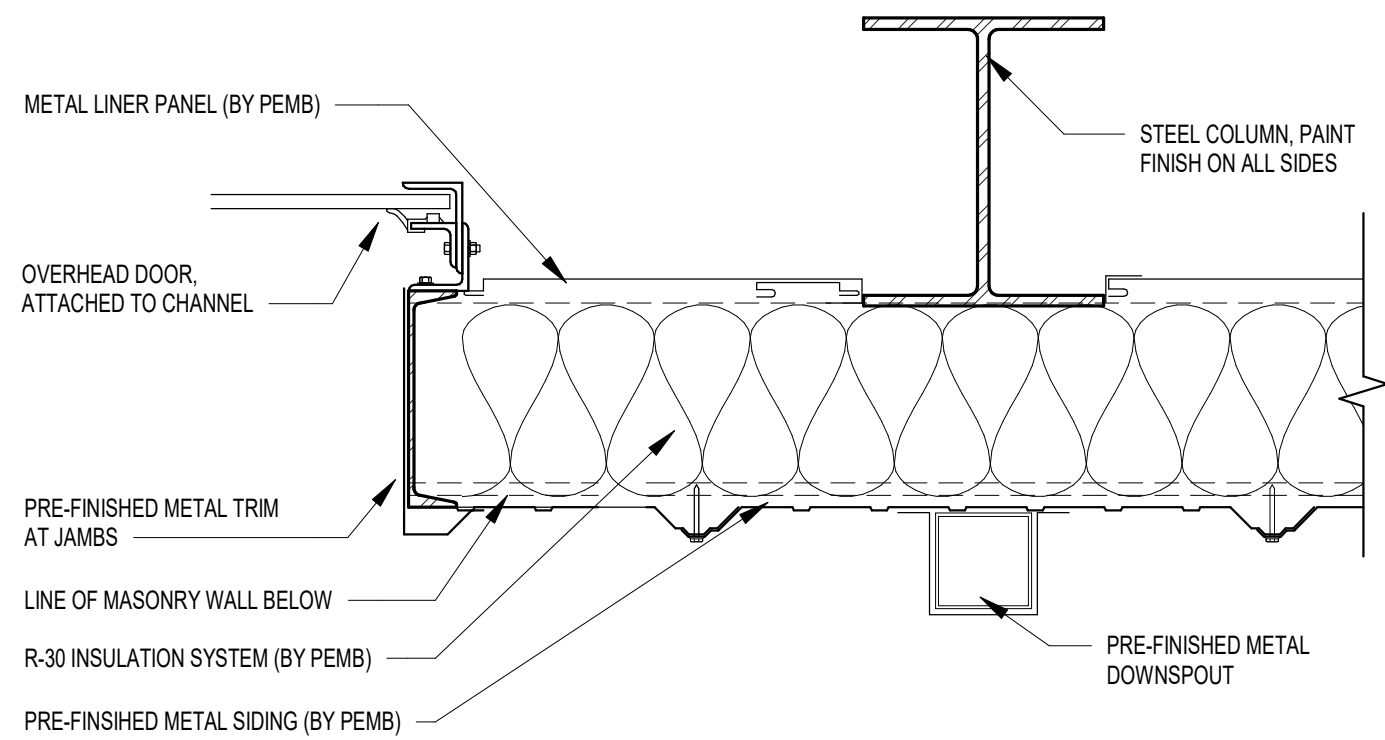
2

3

4

5

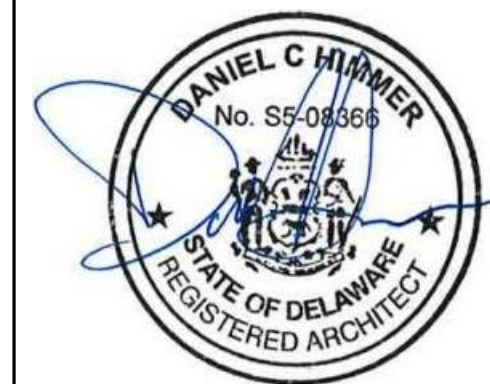
6



ARCHITECTURE

JOHNSON, MIRMIRAN & THOMPSON, INC.
40 WIGHT AVENUE
HUNT VALLEY, MARYLAND 21030-2059
410.372.4817
WWW.JMTARCHITECTURE.COM

SEAL:



PROJECT:

**NEWARK
WAREHOUSE #2
EXPANSION**

406 PHILLIPS AVENUE
NEWARK, DE 19711

PREPARED FOR:

**CITY OF NEWARK,
DELAWARE**

PROJECT NO: 20-03026-029

DATE: 7/25/2024

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

DESIGNED BY: DCH

DRAWN BY: CKM

CHECKED BY: DCH

DRAWING TITLE:

DETAILS

SHEET NUMBER:

A501

Autodesk Docs/20-03026-029- City Of Newark Warehouse #3 Expansion/20-03026-029 Newark Warehouse Expansion_Arch.rvt
7/22/2024 9:33:06 AM

F

E

D

C

B

A

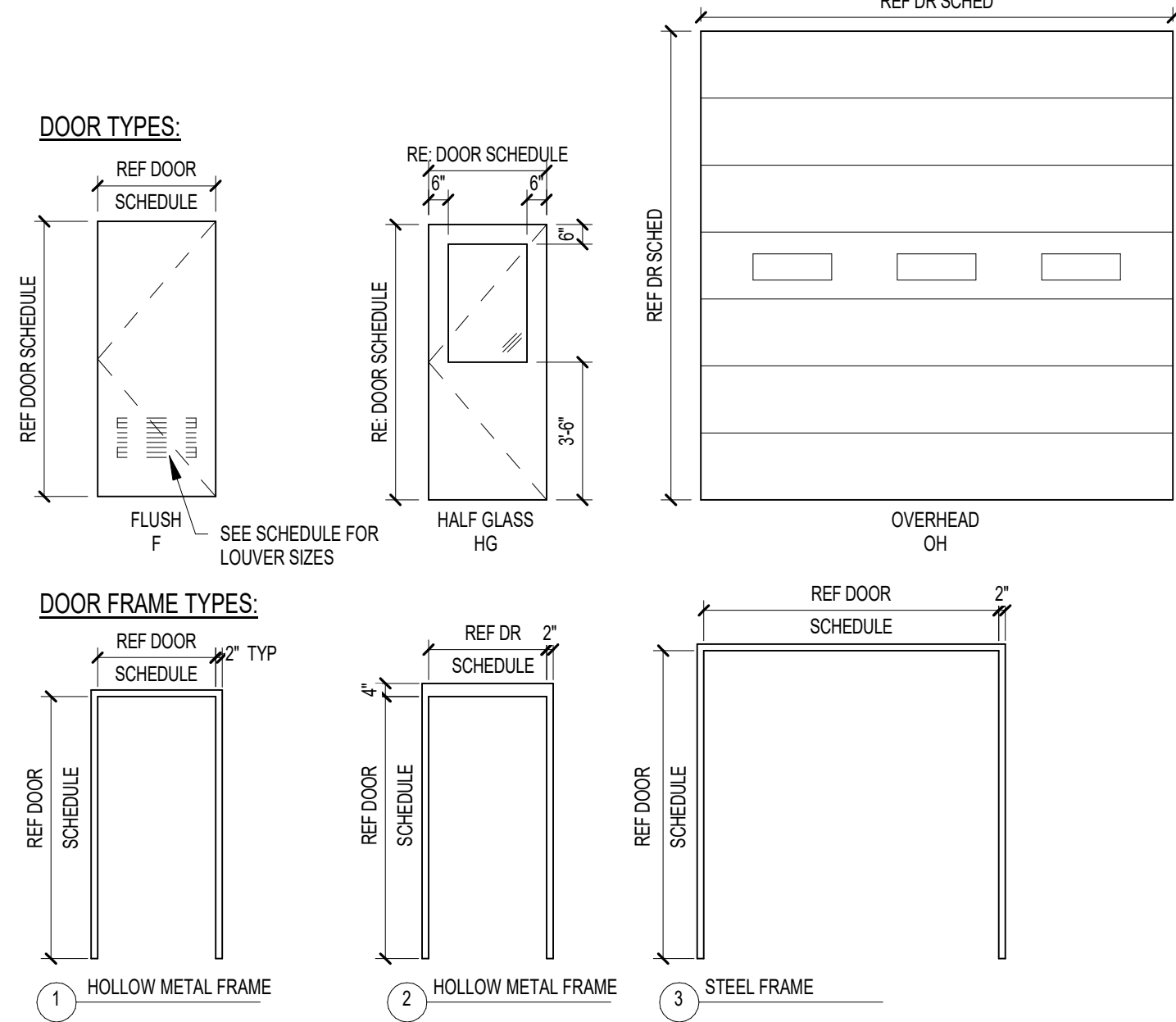
WALL TYPE B					
WIDTH- REFER TO SCHEDULE					
TYPE MARK					
B1	10	3/4"	2	1/2"	8" CMU W/ METAL FRAMING & 5/8" GWB

NOTE: PROVIDE FIRE RATED PENETRAION AND JOINT SYSTEMS THROUGH FIRE RESISTIVE WALL ASSEMBLIES. FIRE RATED PENETRATION AND JOINT SYSTEMS TO BE RATED TO MATCH WALL RATING.

WALL TYPE D					
WIDTH- REFER TO SCHEDULE					
TYPE MARK					
D	3	1/4"	2	1/2"	2 1/2" METAL STUD w/ 5/8" GWB

DOOR SCHEDULE												
MARK	DOOR						FRAME				FIRE RATING	NOTES
	SIZE			TYPE	MATL	FIN	ELEV	DEPTH	MATL	FIN		
	WIDTH	HEIGHT	THK									
101a	3'-0"	7'-0"	1 3/4"	F	HM	PT	1	7 3/4"	HM	PT-2	--	
101b	12'-0"	14'-0"	1 1/2"	OH	STL	FAC	3		STL	FAC	--	
101c	3'-0"	7'-0"	1 3/4"	F	HM	PT	1	7 3/4"	HM	PT-2	--	
102	3'-0"	7'-0"	1 3/4"	HG	HM	PT	2	7 3/4"	HM	PT-2	--	

NOTE: SEE SPECIFICATIONS FOR HARDWARE SETS



ROOM FINISH SCHEDULE								
NO	ROOM NAME	FLOOR		WALL		CEILING	MILLWORK	
		MATERIAL	BASE	MATERIAL	FINISH	FINISH	TOP	BASE
101	WAREHOUSE	CONC	--	LP	MANUF	EXP		
102	OFFICE	VCT	RB	GWB	PT-1	ACT		

NOTES: ALL DOORS AND FRAMES TO BE PAINTED PT-2.

ROOM FINISH LEGEND					
FLOOR		WALL		CEILING	
VCT	VINYL COMPOSITE TILE	GWB	GYPSUM WALL BOARD	ACT	24" x 48" ACOUSTICAL CEILING TILE
CONC	SEALED CONCRETE	LP	LINER PANEL (BY PEMB)	EXP	EXPOSED
		PT-1	PAINTED - GENERAL PAINT COLOR		
		PT-2	PAINTED - SEMI-GLOSS		
BASE		CASEWORK			
RB	4" VINYL COVE BASE	PLAM	PLASTIC LAMINATE		



JOHNSON, MIRMIRAN & THOMPSON, INC.
40 WIGHT AVENUE
HUNT VALLEY, MARYLAND 21030-2059
410.372.4817
WWW.JMTARCHITECTURE.COM

SEAL:



PROJECT:

**NEWARK
WAREHOUSE #2
EXPANSION**

406 PHILLIPS AVENUE
NEWARK, DE 19711

PREPARED FOR:

**CITY OF NEWARK,
DELAWARE**

MARK	DATE	DESCRIPTION

DRAWING TITLE:
SCHEDULES

SHEET NUMBER:
A601

Autodesk Docs/20-03026-029: City Of Newark Warehouse #3 Expansion Warehouse #3 Expansion Warehouse Expansion - Structrvt
7/22/2024 3:56:23 PM

DESIGN NOTES

DESIGN BASIS:	
TMS 402-16	BUILDING CODE REQUIREMENT FOR MASONRY STRUCTURES
AISC 360-16	SPECIFICATION FOR STRUC. STEEL BUILDING
IBC 2021	INTERNATIONAL BUILDING CODE
ASCE 7-16	MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
ACI 318-19	MANUAL FOR CONCRETE CONSTRUCTION

PROJECT LOADS

DEAD LOAD: BUILDING TO BE DESIGNED FOR ACTUAL WEIGHTS OF MATERIALS
MEP DEAD LOAD: 15 PSF MINIMUM AT ROOF OR ACTUAL WEIGHTS, WHICHEVER IS GREATER

	UNIFORM (PSF)	CONC. (LBS)
ROOF LIVE LOAD:	20	300
FLOOR LIVE LOAD:	125	1200
PRIMARY ROOF MEMBER EXPOSED TO WORK FLOOR:		2000 (SEE ASCE TABLE 4.3-1)

WIND LOAD PER ASCE 7-16	
WIND BORN DEBRIS: BUILDING RISK CATEGORY:	NOT APPLICABLE II
DESIGN WIND SPEED ULTIMATE (V_{ult}):	115 MPH
DIRECTIONALITY FACTOR (K_d): WIND EXPOSURE: TOPOGRAPHIC FACTOR (K_z): GUST EFFECT FACTOR (G):	0.85 B 1 0.85
ENCLOSURE CLASSIFICATION: INTERNAL PRESSURE COEFF: MWFRS DESIGN PROCEDURE:	ENCLOSED +0.18 DIRECTIONAL

MWFRS

DESIGN BY PEMB MANUFACTURER

COMPONENTS AND CLADDING (ULTIMATE):

ROOF	SURFACE PRESSURE (PSF)			
AREA	10SF	50SF	100SF	500SF
NEG. ZONE 1	-28.1	-25.5	-24.3	-24.3
NEG. ZONE 2	-33.9	-28.5	-26.2	-26.2
NEG. ZONE 3	-53.4	-46.6	-41.5	-41.5
POS. ALL ZONES	16	16	16	16

WALL	SURFACE PRESSURE (PSF)			
AREA	10SF	50SF	100SF	500SF
NEG. ZONE 4	-24.3	-22.0	-21.0	-18.6
NEG. ZONE 5	-30.0	-25.4	-23.3	-18.6
POS. ALL ZONES	22.4	20.1	19.1	16.7

** REFER TO ASCE 7-16, CHAPTER 30 FOR ZONE DEFINITIONS**

SEISMIC DESIGN CRITERIA

RISK CATEGORY:	II
SEISMIC IMPORTANCE FACTOR (I_e):	$I_e = 1$
MAPPED SPECTRAL RESPONSE ACCL:	$S_s = 0.178g$ $S_1 = 0.046g$
SITE CLASS:	D
SPECTRAL RESPONSE ACCELERATIONS:	$S_{ds} = 0.189 g$ $S_{d1} = 0.074g$
SEISMIC DESIGN CATEGORY:	B

SEISMIC DESIGN FACTORS

DESIGN BY PEMB MANUFACTURER

SNOW LOADS

GROUND SNOW LOAD:	25 PSF
FLAT ROOF SNOW LOAD:	20 PSF

FROST DEPTH

36 INCH

EXISTING CONDITIONS

GENERAL CONTRACTOR SHALL FIELD VERIFY EXISTING SIZES, DIMENSIONS, NOTES OR CONDITIONS PRIOR TO ANY DETAILING, OR FABRICATION OF MATERIALS.

DEMOLITION:

- PROTECTION: PROTECT EXISTING CONSTRUCTION TO REMAIN DURING REMOVAL, CUTTING AND PATCHING TO PREVENT DAMAGE.
- CUTTING: CUT EXISTING CONSTRUCTION USING METHODS LEAST LIKELY TO DAMAGE ELEMENTS TO BE RETAINED OR ADJOINING CONSTRUCTION. IN GENERAL, WHERE CUTTING IS REQUIRED, USE HAND OR SMALL POWER TOOLS DESIGNED FOR SAWING OR GRINDING, NOT HAMMERING AND CHOPPING. CUT HOLES AND SLOTS NEARLY TO SIZE REQUIRED WITH MINIMUM DISTURBANCE OF ADJACENT SURFACES. TEMPORARILY COVER OPENINGS WHEN NOT IN USE. CUT THROUGH CONCRETE AND MASONRY USING A CUTTING MACHINE SUCH AS CARBONUMDUM SAW OR DIAMOND CORE DRILL.
- CUT-OFF PIPE OR CONDUIT IN WALLS OR PARTITIONS TO BE REMOVED, RELOCATED OR ABANDONED. CUT-OFF PIPE OR CONDUIT IN WALLS OR PARTITIONS TO BE REMOVED, CAP VALVE OR PLUG AND SEAL THE REMAINING PORTION OF PIPE OR CONDUIT TO PREVENT ENTRANCE OF MOISTURE OR OTHER FOREIGN MATTER AFTER BY-PASSING AND CUTTING.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL UTILITIES THAT ARE INVOLVED IN THE DEMOLITION ACTIVITIES AND COORDINATE THEIR REMOVAL OR RELOCATION WITH THE OWNERS REPRESENTATIVE. WORK AT NO COST TO OWNER.

UTILITIES

- CONTRACTOR IS TO VERIFY LOCATIONS OF ALL UNDERGROUND UTILITIES PRIOR TO PERFORMING ANY SUBSURFACE OR EXCAVATION WORK.
- PROTECT EXISTING UTILITIES TO REMAIN DURING EXCAVATION, AND CUTTING AND PATCHING, TO PREVENT DAMAGE.
- TAKE ALL PRECAUTIONS NECESSARY TO AVOID CUTTING EXISTING PIPE, CONDUIT OR DUCTWORK SERVING THE BUILDING. UNTIL PROVISIONS HAVE BEEN MADE TO BYPASS THEM, PROVIDE TEMPORARY SERVICES DURING INTERRUPTIONS TO EXISTING UTILITIES, AS ACCEPTABLE TO OWNER.
- PROMPTLY REPAIR DAMAGES CAUSED TO ADJACENT FACILITIES BY DEMOLITION OR CONSTRUCTION WORK AT NO COST TO OWNER.
- IF UNANTICIPATED MECHANICAL, ELECTRICAL OR STRUCTURAL ELEMENTS WHICH CONFLICT WITH THE INTENDED FUNCTION OR DESIGN ARE ENCOUNTERED, INVESTIGATE AND MEASURE BOTH NATURE AND EXTENT OF THE CONFLICT. SUBMIT REPORT TO OWNERS REPRESENTATIVE IN WRITTEN, ACCURATE DETAIL. PENDING RECEIPT OF DIRECTIVE FROM OWNERS REPRESENTATIVE, REARRANGE SCHEDULE AS NECESSARY TO CONTINUE OVERALL JOB PROGRESS WITHOUT DELAY.

GENERAL

- ALL WORK SHALL COMPLY WITH FEDERAL, STATE, AND LOCAL LAWS.
- ONCE ON SITE, THE CONTRACTOR SHALL COMPLETE A SURVEY OF THE PROJECT SITE TO VERIFY THE EXISTING CONDITIONS. ANY CONDITIONS FOUND BY THE CONTRACTOR THAT WERE NOT ANTICIPATED ON THE CONTRACT PLANS AND THAT WILL AFFECT THE COST OF THE IMPLEMENTATION OF THE SPECIFIED PROJECT SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER.
- LOCATIONS AND QUANTITIES SHOWN ON THESE PLANS ARE APPROXIMATE FOR BIDDING PURPOSES. ACTUAL FIELD INSTALLED QUANTITIES MAY VARY. CONTRACTOR SHALL VERIFY LOCATIONS AND QUANTITIES WITH ENGINEER PRIOR TO BEGINNING WORK ON ALL PAY ITEMS.
- CONSTRUCTION ACTIVITY DESCRIPTIONS LISTED IN THESE PLANS ARE NOT MEANT TO BE ALL INCLUSIVE, BUT RATHER TO OUTLINE THE GENERAL WORK TASKS. THE CONTRACTOR IS RESPONSIBLE FOR THE PROPER EXECUTION OF THE WORK AND ADHERENCE TO ALL MANUFACTURER'S RECOMMENDATIONS REGARDING INSTALLATION OF WORK WHEN PROPRIETARY PRODUCTS ARE USED.
- THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE STRUCTURE IS FULLY COMPLETED. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES, SEQUENCE, AND TO ENSURE THE STABILITY OF THE BUILDING AND ITS COMPONENT PARTS. THIS INCLUDES THE ADDITION OF ANY SHORING, SHEETING, TEMPORARY GUYS, BRACING, OR TIE DOWNS THAT MIGHT BE NECESSARY.
- THE ENGINEER HAS NO EXPERTISE IN, AND TAKES NO RESPONSIBILITY FOR, CONSTRUCTION MEANS AND METHODS OR JOB SITE SAFETY DURING CONSTRUCTION. IT IS SOLELY THE RESPONSIBILITY OF EACH CONTRACTOR TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION. THE ENGINEER IS NOT ENGAGED IN, AND DOES NOT SUPERVISE CONSTRUCTION.
- ALL WORK SPECIFIED HEREIN SHALL BE INSPECTED IN ACCORDANCE WITH THE BUILDING CODE AND ALL LOCAL ORDINANCES. THE OWNER (OR CONTRACTOR PER DIV 01 SPECIFICATIONS) SHALL HIRE AN EXPERIENCED QUALIFIED INSPECTOR TO PERFORM ALL REQUIRED SPECIAL INSPECTION WORK. THE CONTRACTOR SHALL HIRE AN EXPERIENCED QUALIFIED INSPECTOR TO PERFORM ALL OTHER INSPECTION WORK. THE ENGINEER MAY VISIT THE SITE TO ASCERTAIN GENERAL CONFORMANCE TO THE CONTRACT DOCUMENTS. HOWEVER, SUCH VISITS SHALL NOT BE RELIED UPON BY OTHERS AS ACCEPTANCE OF THE WORK, NOR SHOULD IT BE CONSTRUED TO REPLACE THE REQUIRED INSPECTIONS.
- THE STRUCTURAL DRAWINGS AND SPECIFICATIONS ARE ONE PART OF THE CONTRACT DOCUMENT SET AND SHALL BE USED IN CONJUNCTION WITH THE REMAINING PARTS OF THE CONTRACT DOCUMENTS. "DRAWINGS" MEANS THE LATEST STRUCTURAL DESIGN DRAWINGS AND "SPECIFICATIONS" MEANS THE LATEST PROJECT SPECIFICATIONS. IN CASES WHERE REQUIREMENTS INDICATED ON THE STRUCTURAL DRAWINGS DIFFER FROM THE SPECIFICATIONS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER AND ASSUME THE MORE STRINGENT REQUIREMENT UNTIL OTHERWISE NOTIFIED IN WRITING BY THE ARCHITECT OR ENGINEER. ADDITIONALLY, WHERE REFERENCED CODES AND STANDARDS IDENTIFIED IN THE PLANS, NOTES, OR SPECIFICATIONS CONFLICT THE MORE STRINGENT OR CONSERVATIVE PROVISIONS SHALL CONTROL. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER OF ANY SUCH CONFLICTS DISCOVERED.
- ALL DETAILS, SECTIONS, AND NOTES ON THE DRAWINGS ARE INTENDED TO BE TYPICAL WHERE CONDITIONS ARE SIMILAR TO THOSE INDICATED BY DETAIL, OR DETAIL, TITLE, OR NOTE. CENTERLINES OF COLUMNS AND FOUNDATIONS COINCIDE WITH GRID LINE INTERSECTIONS, UON. CENTERLINES OF GRADE BEAMS AND WALLS COINCIDE WITH CENTERLINES OF FOUNDATIONS, UON. CENTERLINES OF FLOOR FRAMING BEAMS AND GIRDERS COINCIDE WITH COLUMN CENTERLINES, UON. ELEVATIONS INDICATED ON STRUCTURAL DRAWINGS ARE BASED ON A 0'-0" ELEVATION EQUATING TO 0'-0" PROJECT DATUM ELEVATION INDICATED ON THE ARCHITECTURAL DRAWINGS. USE ONLY DIMENSIONS INDICATED ON THE DRAWINGS. DO NOT SCALE DRAWINGS OR USE ANY DIMENSIONS TAKEN FROM ELECTRONIC DRAWING FILES.
- SEE ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR SIZE AND LOCATION OF DRIPS, CHAMFERS, SLEEVES, ANCHORS, INSERTS, AND OPENINGS REQUIRED. THE LOCATION AND SIZE OF SLEEVES OR OPENINGS NOT SHOWN ON THE DRAWINGS IN STRUCTURAL MEMBERS SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER. PRINCIPAL OPENINGS IN THE STRUCTURE ARE INDICATED ON THE CONTRACT DRAWINGS.
- WHERE THE CONTRACTOR ELECTS TO POUR THE SLAB ON GRADE PRIOR TO ERECTING THE SUPERSTRUCTURE, THE CONTRACTOR SHALL TAKE INTO CONSIDERATION THAT THE SLAB ON GRADE IS NOT DESIGNED FOR SUPPORT OF ANY CRANES OR SIMILAR DEVICES USED TO ERECT THE STRUCTURAL FRAME. DO NOT PLACE THIS EQUIPMENT ON THE SLAB.
- GENERAL CONTRACTOR SHALL ENGAGE A SURVEYOR TO PROVIDE LOCATIONS OF ALL EXISTING UTILITIES, TRENCHES, ETC. TO ENSURE THAT NEW FOUNDATIONS WILL NOT INTERFERE, UNDERMINE, OR BEAR ON EXISTING UTILITIES.

EARTHWORK

THE FOUNDATIONS SHOULD NOT BEAR ON THE MISCELLANEOUS FILL SOILS AT THE SITE PER THE GEOTECHNICAL RECOMMENDATIONS. THE MISCELLANEOUS EXISTING FILL AT THE SITE IS REQUIRED TO BE UNDERCUT TO COMPLETELY REMOVE EXISTING FILL. UNDERCUT SOILS BELOW THE ENTIRE BUILDING PAD, REMOVING ALL THE MISCELLANEOUS FILL AND REPLACE WITH COMPACTED STRUCTURAL FILL OVER THE FULL FOOTPRINT OF THE BUILDING.

- THE MINIMUM ESTIMATED ELEVATION OF EXCAVATION IS TO ELEVATION 108FT.
- THE MAXIMUM ESTIMATED ELEVATION OF EXCAVATION IS TO ELEVATION 104FT
- COORDINATE PROPER EXCAVATION DEPTHS WITH GEOTECHNICAL ENGINEER.

DISPOSAL OF DEMOLISHED MATERIALS: REMOVE DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM EXCAVATION/DEMOLITION OPERATIONS FROM BUILDING SITE. SOILS CONTAINING DEBRIS ARE NOT CONSIDERED SUITABLE FOR REUSE AS STRUCTURAL FILL AND SHOULD BE TRANSPORTED AND LEGALLY DISPOSED OF OFF SITE.

CONTROLLED FILL AND BACKFILL

- SAMPLES OF ALL MATERIALS THAT THE CONTRACTOR PROPOSES TO USE FOR COMPACTED FILL SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER HIRED BY OWNER/ CONTRACTOR. COMPACTED FILL SHALL CONSIST OF LOCAL MATERIAL FREE OF DELETERIOUS MATTER AND CLASSIFIED SC, GC, GM, OR SM PER ASTM D-2487.
- STRUCTURAL LIFTS UTILIZED WITHIN THE PROPOSED STRUCTURAL AREAS SHOULD BE PLACED IN LOOSE LIFTS WITH A MAXIMUM THICKNESS OF 8 INCHES AND COMPACTED TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY.
- STRUCTURAL FILL FOR PAVEMENT AREAS AND UTILITY TRENCHES LOCATED OUTSIDE OF THE PROPOSED STRUCTURAL AREA SHOULD COMPACTED TO AT LEAST 90% OF THE MAX DRY DENSITY, AS DETERMINED BY ASTM D-1557.
- PRIOR TO PLACEMENT OF ANY FILLS, THE SITE SHALL BE STRIPPED OF ALL TOPSOIL, VEGETATION, ROCKS, AND ORGANIC MATERIALS AND THE EXPOSED SUBGRADE SHALL BE COMPACTED IN PLACE TO A CONFIRMED DENSITY OF 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY.
- COMPACTED FILL PLACED WITHIN 4 FEET OF STRUCTURES AND PIPES SHOULD BE PLACED IN HORIZONTAL LIFTS NOT TO EXCEED 4 INCHES THICKNESS AND COMPACTED WITH HAND TAMPERS OR LIGHT COMPACTION EQUIPMENT TO THE SAME STANDARD. HEAVY COMPACTION EQUIPMENT SHOULD NOT BE ALLOWED WITHIN 4 FEET OF STRUCTURES UNLESS A MINIMUM 2 FEET DEPTH OF FILL COVERS THE STRUCTURES.
- THE CONTRACTOR SHALL TAKE ALL MEASURES REQUIRED TO PROVIDE FOR FREE DRAINAGE OF THE SITE AND TO PREVENT PONDING OF WATER. SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED AT ALL TIMES.
- PLACING OF FILL CONTAINING ORGANIC MATTER: PLACING OF FILL WITH MOISTURE CONTENT TOO HIGH OR TOO LOW FOR PROPER COMPACTION; PLACING OF FILL WHEN FREE WATER IS STANDING ON THE EXISTING FILL SURFACE; PLACING OF FILL IN A FROZEN CONDITION OR ON TOP OF FROZEN MATTER WILL NOT BE PERMITTED.
- THE GEOTECHNICAL ENGINEER SHALL SUPERVISE THE PLACING OF THE COMPACTED FILL AND ALL THE MATERIAL AND EQUIPMENT USED FOR THIS PURPOSE AND SHALL MAKE SUCH SOILS TESTS AS MAY BE REQUIRED FOR THE COMPLETION OF THE WORK.

FOUNDATION

- THE EXISTING FOUNDATIONS OF THE ADJACENT BUILDING ARE UNKNOWN. AS-BUILT DRAWINGS OF THE EXISTING STRUCTURE WERE NOT AVAILABLE DURING DESIGN. SUBSEQUENTLY, EXCAVATION AND SUBSURFACE EXPLORATION MAY BE REQUIRED IF THE SIZE AND LOCATION OF NEW FOUNDATIONS CONFLICT WITH EXISTING CONDITIONS. CONTRACTOR SHOULD ALERT THE ENGINEER OF RECORD IF FOOTING GEOMETRIES CONFLICT AND PROVIDE THE FOLLOWING INFORMATION.
 - EXISTING FOUNDATION SYSTEM -> DEEP FOUNDATION OR SPREAD FOOTINGS.
 - APPROXIMATE TOP AND BOTTOM ELEVATIONS OF ALL SHALLOW SPREAD FOOTINGS.
 - APPROXIMATE WIDTH AND LENGTH OF ALL EXISTING COLUMN FOUNDATIONS.
- SOIL BEARING: DESIGN ALLOWABLE BEARING CAPACITY OF 3,000 PSF, REFER TO GEOTECHNICAL REPORT BY CGC SERVICES DATED 10/10/2023 FOR EARTHWORK PROCEDURE, COMPACTION, AND ADDITIONAL INFORMATION. IF SOIL OF THIS BEARING CAPACITY IS NOT ENCOUNTERED AT THE ELEVATIONS INDICATED ON THE CONTRACT DRAWINGS, FOOTINGS SHALL BE LOWERED OR INCREASED IN SIZE AS DIRECTED BY THE STRUCTURAL ENGINEER. ELEVATIONS SHOWN ON PLAN ARE TO THE BOTTOM OF THE FOOTINGS.
- ALL FOUNDATIONS SHOULD BE PLACED ON FIRM, NON-FROZEN SUBGRADE.
- PROVIDE PROTECTION AS REQUIRED TO SUPPORT LATERAL LOADS DURING EXCAVATION. SEE GEOTECHNICAL REPORT FOR SOIL PROPERTIES.
- CONTRACTOR SHALL SAFEGUARD AND PROTECT ALL EXCAVATIONS AND ALL EXCAVATIONS SHALL BE KEPT FREE OF WATER. PROVISIONS FOR REMOVAL OF WATER BY DRAINAGE OR PUMPING ARE RECOMMENDED.

FOUNDATION (CONTINUED)

- SUBGRADE SOILS DISTURBED BY PRECIPITATION SHOULD BE EITHER SACRIFIED AND RE-COMPACTED, OR UNDERCUT AND REPLACED WITH STRUCTURAL FILL. SEE GEOTECHNICAL REPORT.
- FOUNDATION AND SLAB SUBGRADE AREAS ARE TO BE OVEREXCAVATED BY 4" AND COVERED WITH AASHTO #57 STONE, OR APPROVED EQUAL.
CONTRACTOR SHALL REFER TO PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS FOR ALL LOCATIONS OF TRENCHES, PITS, CONDUITS, ETC. NOT SHOWN ON STRUCTURAL DRAWINGS.
- ALL EXISTING PAVEMENT SECTION, UTILITIES, FOUNDATIONS OR SLABS, OR OTHER OBSTRUCTIONS IN THE BUILDING FOOTPRINT SHOULD BE REMOVED IN THEIR ENTIRETY AT THE START OF CONSTRUCTION. EXPOSED SUBGRADE TO BE PROOFROLLED WITH A MINIMUM 10 TON VIBRATORY ROLLER OF FULLY LOADED TANDEM-WHEEL DUMP TRUCK IN THE PRESENCE OF A QUALIFIED GEOTECHNICAL ENGINEER.
- YIELDING SUBGRADE CONDITIONS ENCOUNTERED WITHIN THE PROPOSED BUILDING AREA WHICH CANNOT BE DENSIFIED IN PLACE SHOULD BE UNDERCUT TO FIRM SUBGRADE CONDITIONS AND BE BACKFILLED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT.
- IF ANY AREA OF SIGNIFICANT QUANTITIES OF DEBRIS OR ORGANIC MATERIAL ARE OBSERVED WITHIN THE FILL SOILS, THEY SHOULD BE REMOVED FROM THE SLAB AREA.
- FOUNDATION EXCAVATIONS SHOULD BE REVIEWED BY A QUALIFIED TECHNICIAN WORKING UNDER THE SUPERVISION OF A GEOTECHNICAL ENGINEER THAT IS FAMILIAR WITH THE REPORT.
- SANDY SILTY OR SILTY SAND SOILS THAT ARE FREE OF DEBRIS MAY BE SUITABLE FOR USE AS FILL IF THEY ARE MAINTAINED AT A MOISTURE CONTENT THAT WILL ALLOW FOR THE SPECIFIED DEGREE OF COMPACTION.

CONCRETE

CONCRETE TO COMPLY WITH ACI 301.
MIX DESIGN AND REBAR SHOP DRAWINGS TO BE SUBMITTED FOR REVIEW.

- MATERIAL:
- EXPOSURE CATEGORY - FOUNDATIONS AND SLAB ON GRADE: F2, W1
 - MINIMUM COMPRESSIVE STRENGTH OF CONCRETE TO BE 4500 PSI
 - CHAMFER ALL EXPOSED CONCRETE CORNERS. SEE ARCHITECTURAL DRAWINGS FOR DETAILS AND REQUIREMENTS
 - PROVIDE CONTINUOUS WATERSTOPS, AS DESCRIBED IN THE SPECIFICATIONS, AT EACH CONSTRUCTION JOINT OF ANY CONCRETE ELEMENT EXPOSED TO SOIL OR WATER.
 - PROVIDE A 1-1/2" BY 3-1/2" CONTINUOUS KEY AT EACH JOINT REQUIRING WATERSTOP.
 - SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL JOINTING AND WATERPROOFING REQUIREMENTS.
 - LOADS GREATER THAN THE DESIGN LIVE LOADS SHALL NOT BE PLACED ON THE STRUCTURE. A CONCRETE STRUCTURE MAY NOT SUPPORT ITS DESIGN LIVE LOAD FOR 28 DAYS. CONTRACTOR SHALL SUPPORT ADJACENT STRUCTURES, UTILITIES, AND EXCAVATIONS AS REQUIRED FOR COMPLETION OF WORK.
 - DEFORMED BARS SHALL CONFORM TO ASTM A615, GRADE 60 OR ASTM A706, GRADE 60
 - WELDED WIRE FABRIC SHALL CONFORM TO ASTM A1064

SLABS:

- CONSTRUCTION JOINT AND CONTROL JOINT MAY BE INTERCHANGED TO SUIT CONCRETE POUR SCHEDULE.
- EXACT LOCATION OF CONTROL JOINTS SHALL BE ESTABLISHED PRIOR TO CUTTING OF REINFORCING AND PLACING OF CONCRETE. FIELD CONTROL SHALL ASSURE THAT THE JOINTS OCCUR OVER THE CUT REINFORCING.
- SAWING OF THE JOINTS:
 - THE PREFERRED METHOD FOR SAWING CONCROL JOINTS IS WITH THE "SOFF-CUT " SAW WITHIN ONE HOUR OF FINISHED CONCRETE.
 - THE CONVENTIONAL CONCRETE SAW CUTTING A 3/16" (5MM) WIDE GROOVE IS ALSO ACCEPTABLE. SAWING SHALL BEGIN AS SOON AS THE CONCRETE SURFACE HAS SUFFICIENTLY HARDENED TO PERMIT SAWING WITHOUT EXCESSIVE RAVELING AND BEFORE SHRINKAGE CRACKS OCCUR. SAWING SHALL BEGIN WITHIN 10 HOURS OF THE FINAL FINISHING OPERATION.
 - WHERE THE SAW IS OBSTRUCTED, TOOLED OR FORMED JOINTS SHALL BE PROVIDED TO JOIN THE SAW CUT JOINT AND COMPLETE THE CONTROL JOINT
 - THE CONTRACTOR SHALL MAKE ALL NECESSARY PROVISIONS TO ENSURE THAT SAWED JOINTS ARE MADE IN THE PROPER INTERVAL INCLUDING, BUT NOT LIMITED TO LIGHTING, TWO SHIFTS, OVERTIME, ETC.
- ALL DOWELS SHALL BE SAW CUT, NOT SHEARED, CONFORMING TO ASTM A615 PLAIN, GRADE 60, AND SHALL BE LOCATED AT MID-DEPTH OF THE SLAB. DOWELS SHALL BE CAREFULLY AND FIRMLY SUPPORTED DURING CONSTRUCTION. DOWELS SHALL BE COATED WITH A BOND BREAKER PRIOR TO PLACING CONCRETE IN THE SECOND POUR.
- SLAB CONTROL JOINTS SHALL BE PLACED SUCH THAT SPACING DOES NOT EXCEED 36xSLAB THICKNESS UP TO A MAXIMUM 18 FEET BETWEEN JOINTS PER ACI 302. JOINTS SHALL BE CUT INTO THE SLAB AT A DEPTH OF 1/3 TIMES THE THICKNESS OF THE SLAB WITHIN 12 HOURS OF PLACEMENT.

REINFORCING STEEL:

- DETAIL REINFORCEMENT BASED ON THE PROJECT REQUIREMENTS AND APPLICABLE CODES / STANDARDS NOTED.
- ALL LAP SPLICES ARE TO BE ACI STANDARD CLASS B TENSION LAP SPLICES. WHERE BARS OF DIFFERENT SIZES LAP, PROVIDE LAP SPLICE LENGTH FOR LARGER BAR.
- WHERE A 90-DEG. HOOK IS GRAPHICALLY INDICATED, PROVIDE ACI STANDARD 90-DEG. HOOK. WHERE A 135-DEG. HOOK IS GRAPHICALLY INDICATED, PROVIDE ACI STANDARD 135-DEG. HOOK. WHERE A 180-DEG. HOOK IS GRAPHICALLY INDICATED, PROVIDE ACI STANDARD 180-DEG. HOOK.
- WHERE SHEETS OF WELDED WIRE FABRIC ARE GRAPHICALLY INDICATED TO LAP, PROVIDE ACI STANDARD FULL TENSION WELDED WIRE FABRIC LAP SPLICE.
- WHERE DOWELS ARE INDICATED BUT NOT SIZED, PROVIDE DOWELS THAT MATCH SIZE AND LOCATION OF MAIN REINFORCEMENT AND LAP SPLICE WITH THE MAIN REINFORCEMENT.
- WHERE CONCRETE ELEMENTS INTERSECT WALLS, PROVIDE DOWELS TO EXTEND WALL REINFORCEMENT CONTINUOUS. ALL WALL STEEL SHALL HAVE A MINIMUM EXTENSION INTO THE SUPPORTS IN ACCORDANCE WITH THE LATEST ADDITION OF THE ACI CODE.
- REINFORCEMENT SHALL HAVE THE FOLLOWING CONCRETE PROTECTION (CLEAR COVER), UON.
 - 3" : SURFACES NOT FORMED
 - 2" : FORMED SURFACES IN CONTACT WITH SOIL/ WATER, OR EXPOSED TO WEATHER
 - 3/4" : SLABS AND JOISTS, TOP BARS
 - 1" : ELEVATED SLABS AND JOISTS, BOTTOM BARS AND WALLS

STRUCTURAL METALS

STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING STANDARDS AND MATERIAL PROPERTIES, UON:
ROLLED SHAPES, UON: ASTM A992, GRADE 50
PLATES, ANGLES, CHANNELS: ASTM A36
PIPE: ASTM A501 OR A53, TYPES E OR S
HOLLOW STRUCTURAL SECTIONS: ASTM A1085 OR A500
WTs: ASTM A992

STRUCTURAL STEEL CONNECTION MATERIAL SHALL CONFORM TO THE FOLLOWING STANDARDS AND MATERIAL PROPERTIES:

PLATES: ASTM A36
HIGH STRENGTH BOLTS: ASTM A325 OR A490
ANCHOR ROD: ASTM F1554 GR 55 S1 (WELDABLE), UON
HEADED CONC ANCHORS: ASTM A-108
NUTS: ASTM A563
WASHERS: ASTM A436
WELD METALS: E70XX (70KSI)

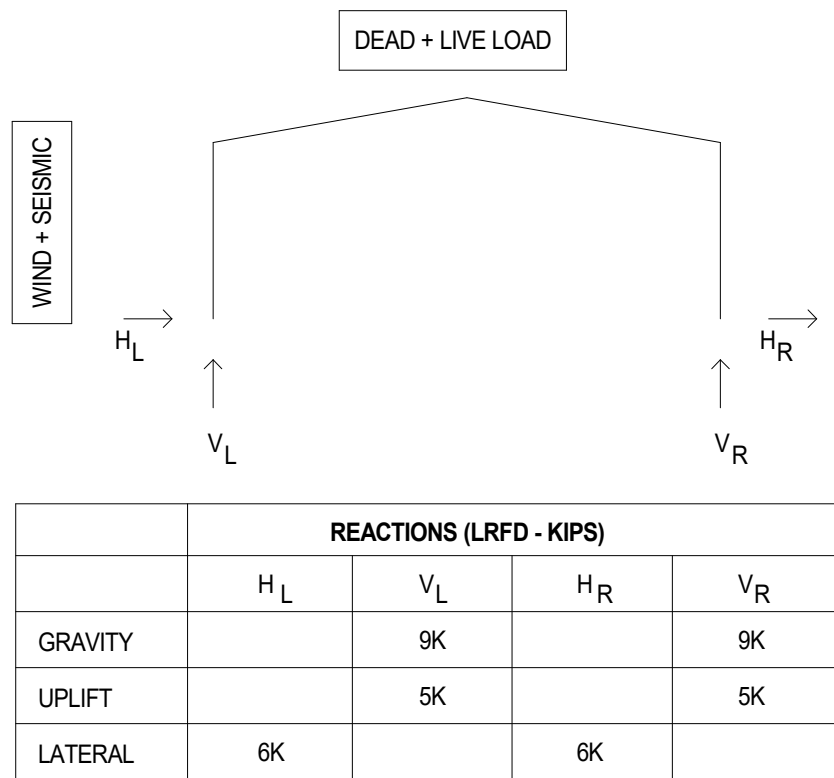
- DETAIL, FABRICATE, AND ERECT STEEL IN ACCORDANCE WITH THE LATEST EDITION OF THE AISC MANUAL OF STEEL CONSTRUCTION INCLUDING SUPPLEMENTS. FABRICATORS SHALL BE LICENSED BY THE GOVERNING AUTHORITY. WELDERS SHALL BE CERTIFIED BY AWS AND SHALL HAVE SPECIFIC CERTIFICATIONS FOR ALL WELDING PROCEDURES PERFORMED. IF LOCAL JURISDICTION LICENSES ARE REQUIRED, WELDERS SHALL HAVE CURRENT LOCAL CERTIFICATION. IN ABSENCE OF AN APPROVED FABRICATION SHOP, STRUCTURAL WELDING SHALL BE DONE UNDER THE SUPERVISION OF A CERTIFIED SPECIAL INSPECTOR.
- FOR STEEL MEMBERS AND EMBEDMENTS EXPOSED TO WEATHER, PROVIDE HOT-DIPPED GALVANIZED STEEL.
- WHERE NO CAMBER IS INDICATED, BEAMS SHALL BE FABRICATED SO THAT AFTER ERECTION, ANY NATURAL CAMBER IS UPWARD.

PRE-ENGINEERED METAL BUILDING

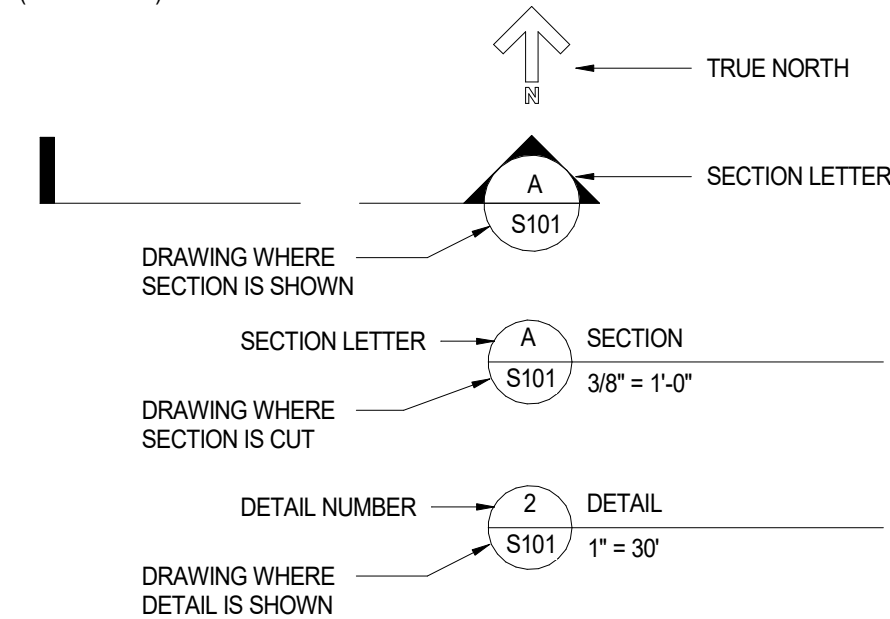
- ANY PRIMARY ROOF MEMBER EXPOSED TO A WORK FLOOR OR ANY POINT ALONG PRIMARY STRUCTURAL MEMBERS SUPPORTING ROOFS OVER MANUFACTURING, STORAGE WAREHOUSES, AND REPAIR GARAGES ARE TO BE DESIGNED TO ACCOMMODATE A CONCENTRATED POINT LOAD OF 2 KIPS.
- THE BUILDING SHALL BE A MANUFACTURER'S STANDARD PRE-FABRICATED METAL STRUCTURE OF THE APPROXIMATE INSIDE AREA SHOWN. RIGID FRAMES SHALL BE SPACED AS SHOWN IN THE PLANS, BUT OVERALL DIMENSIONS AND CONSTRUCTION DETAILS MAY VARY TO SUIT THE MANUFACTURER'S STANDARD DESIGN.
- METAL BUILDING SHALL CONFORM TO ALL APPLICABLE BUILDING CODES AND PROVISIONS OF THE MBMA METAL BUILDING SYSTEMS MANUAL.
- SUBMITTALS:
 - STANDARD DRAWINGS AND DESIGN ANALYSIS SHALL BEAR THE SEAL OF A STRUCTURAL ENGINEER REGISTERED IN THE COMMONWEALTH OF DELAWARE.
 - SUBMIT METAL BUILDING SHOP DRAWINGS AND FINAL FOUNDATION LOADS PRIOR TO THE INITIATION OF THE FOUNDATION WORK.
 - ALL SUBMITTALS TO BE SIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE STATE OF DELAWARE.
 - A COMPLETE DESIGN ANALYSIS SHOWING ALL CALCULATIONS FOR RIGID FRAME, GIRTS, AND PURLINS AND A LAYOUT OF THE ANCHOR BOLTS AND OTHER EMBEDDED ITEMS SHALL BE SUBMITTED WITH THE SHOP DRAWINGS.
 - SHOP DRAWINGS SHALL INCLUDE DETAILS OF ALL MAIN MEMBERS, TYPICAL CONNECTIONS SHOWING BOLT HOLES AND WELDS, AND ERECTION DRAWINGS.
- ALL BUILDING COMPONENTS ABOVE THE CONCRETE SLAB FOUNDATIONS INCLUDING COLUMN BASE PLATES AND WALL ANCHORAGE SYSTEMS TO BE PROVIDED BY THE BUILDING MANUFACTURER. CONTRACTOR TO COORDINATE AND BUILD INTO THE WORK ALL ANCHORAGE DEVICES AND OTHER EMBEDDED ITEMS REQUIRED TO BE SET INTO CONCRETE OR CONCRETE MASONRY.
- ALL METAL BUILDING COLUMN ANCHOR BOLTS TO BE OF A DIAMETER, QUANTITY AND LOCATION AS DESIGNED BY THE METAL BUILDING MANUFACTURER. EMBEDMENT DEPTH TO BE AS SHOWN ON THESE DRAWINGS. ANCHOR BOLTS TO BE FURNISHED AND INSTALLED BY THE CONCRETE SUBCONTRACTOR AT LOCATIONS, AND PROJECTIONS SHOWN ON THE FINAL ANCHOR BOLT LAYOUT PLANS AND DETAILS AS PREPARED BY THE METAL BUILDING MANUFACTURER.
- MODIFICATIONS OF THE FOUNDATIONS, AS SHOWN HERON, REQUIRED TO ACCOMMODATE DETAILS OF THE METAL BUILDING MUST BE DESIGNED AND DOCUMENTED BY THE CONTRACTOR. DESIGN CALCULATIONS AND CONSTRUCTION DOCUMENTS MUST BE PREPARED UNDER THE SUPERVISION OF AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF DELAWARE. IN THE EVENT THE CONTRACTOR CHOOSES TO ALTER THE FOUNDATIONS SHOWN ON THESE DRAWINGS IN ORDER TO ACCOMMODATE THE PARTICULAR REQUIREMENTS OF THE BUILDING, ANY ADDITIONAL COSTS ASSOCIATED WITH REDESIGN, DOCUMENTATION, SUBMITTALS AND CONSTRUCTION SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. ANY MODIFICATIONS TO THE FOUNDATIONS SHOWN ON THESE DRAWINGS ARE SUBJECT TO THE APPROVAL OF THE OWNER.
- WIND RESISTING ELEMENTS TO BE EITHER STRONG AXIS RIGID FRAMES AND WEAK AXIS CROSS BRACING, OR STRONG AXIS RIGID FRAMES AND WEAK AXIS PORTAL FRAMES.
- THE BUILDING SHALL BE DESIGNED TO SUPPORT ALL MECHANICAL EQUIPEMENT INCLUDING HEATERS, SPRINKLERS, EXHAUST SYSTEMS AND OTHER SUCH DEVICES. ADDITIONAL GIRTS OR PURLINS SHALL BE PLACED IN CONVENIENT LOCATIONS FOR THE ATTACHMENT OF ALL MECHANICAL EQUIPMENT.
- BASED UPON THE FINAL CALCULATED FRAME REACTIONS PROVIDED BY THE PRE-ENGINEERED BUILDING MANUFACTURER, THE CONTRACTOR SHALL VERIFY THAT FOUNDATIONS INDICATED ON THE DRAWINGS ARE SUFFICIENT TO SUPPORT THE STRUCTURE AND TO RESIST ANY UPLIFT DUE TO WIND LOADING.
- BOLTS SHALL BE PROPERLY PLACED, ALIGNED, AND SECURELY TIED TO REMAIN IN PLACE DURING PLACEMENT OF THE CONCRETE.

PRE-ENGINEERED METAL BUILDING - MINIMUM DESIGN CRITERIA

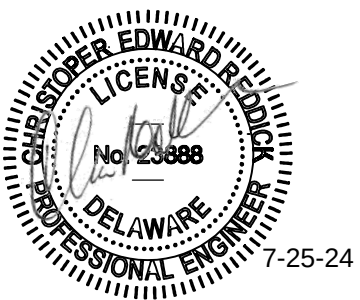
- THE EXISTING FOUNDATIONS OF THE ADJACENT EXISTING BUILDING ARE UNKNOWN. SEE FOUNDATION NOTES THIS PAGE FOR MORE INFORMATION.
- NEW FOUNDATIONS ARE REQUIRED TO BE VERIFIED AND/OR REDESIGNED BASED ON THE ACTUAL BUILDING MANUFACTURER-PROVIDED DESIGN REACTIONS.
- FOUNDATIONS SHOWN ARE PRELIMINARY. THE PRELIMINARY DESIGN ASSUMED COLUMN REACTIONS. CONTRACTOR SHALL VERIFY THAT LOADS SHOWN BELOW ARE CORRECT FOR BUILDING FURNISHED:
MAX. COLUMN COMPRESSION = 9 KIPS
MAX. COLUMN UPLIFT = 5 KIPS
MAX. COLUMN SHEAR = 6 KIPS



STRUCTURAL DRAWING LEGEND
(CONTINUED)



SEAL:



PROJECT:

NEWARK
WAREHOUSE #2
EXPANSION

406 PHILIPS AVENUE
NEWARK, DE 19711

PREPARED FOR:

CITY OF NEWARK
DELAWARE

PROJECT NO: 20-03026-029

DATE: 7/22/24

SCALE: As indicated

DESIGNED BY: BE

DRAWN BY: BE

CHECKED BY: CR

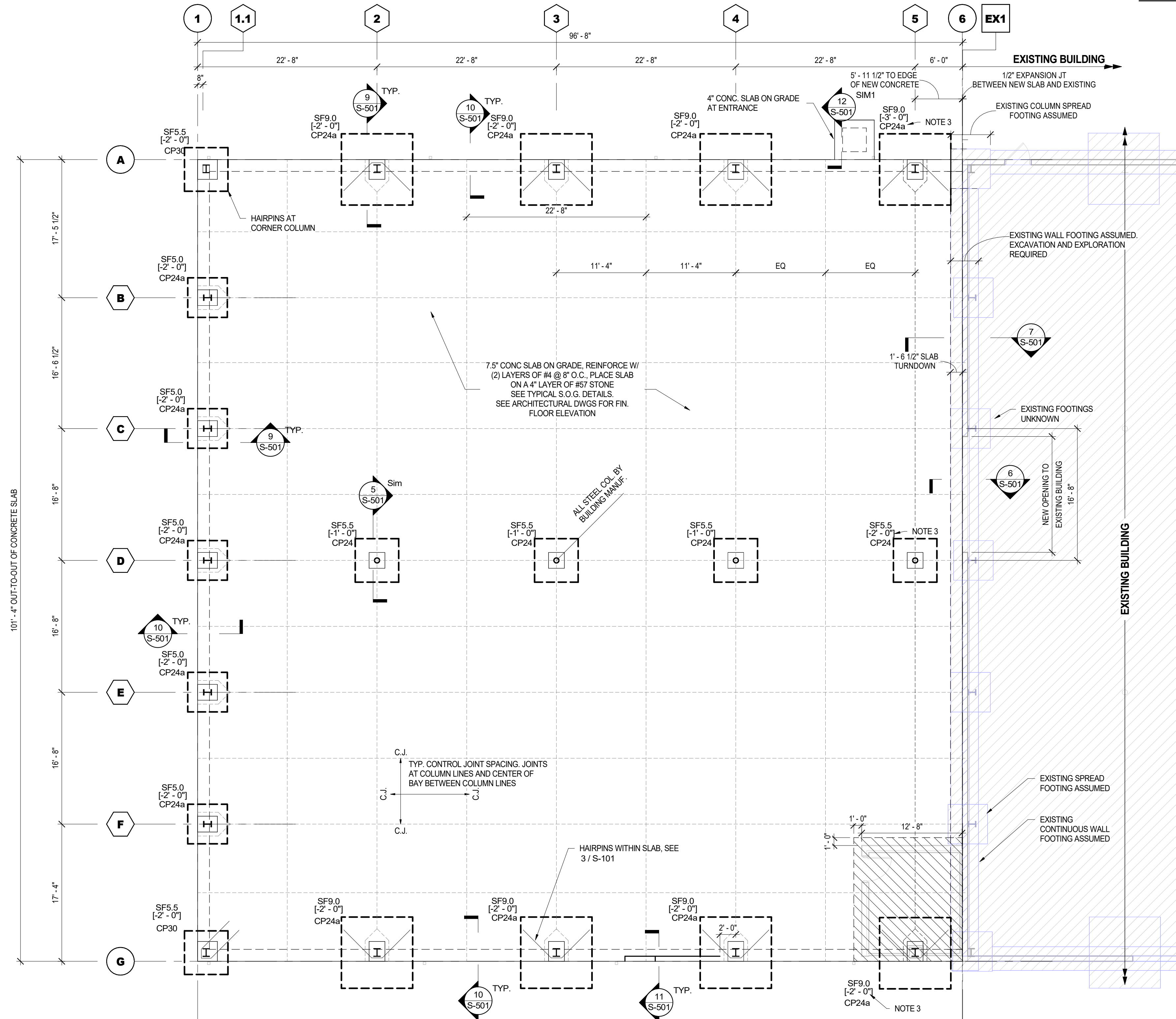
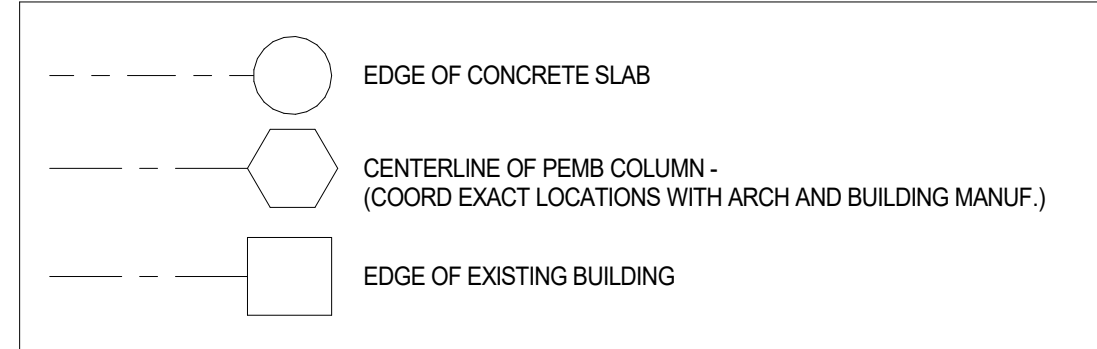
DRAWING TITLE:
GENERAL NOTES

SHEET NUMBER:

S-001

Aubresk Docs/20-03026-029- City Of Newark Warehouse #3 Expansion/20-03026-029 Newark Warehouse Expansion. Struct.rvt
7/22/2024 3:55:24 PM

Gridline Type Legend

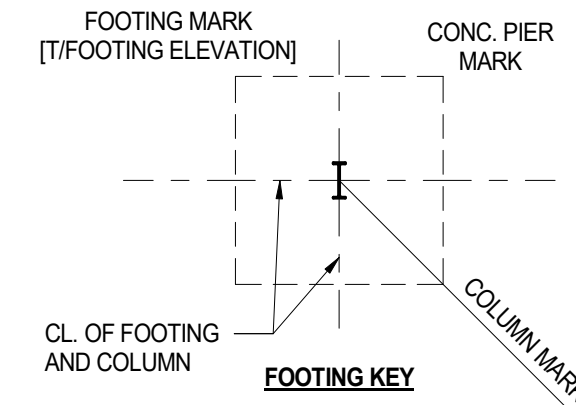


1 FOUNDATION PLAN
S-101 1/8" = 1'-0"

FOUNDATION PLAN NOTES

NOTES:

- THE EXISTING FOUNDATIONS OF THE ADJACENT BUILDING ARE UNKNOWN AT THE TIME OF DESIGN. SEE FOUNDATION NOTES ON S-001
 - THE NEW PEMB SPREAD FOOTINGS HAVE BEEN DESIGNED WITHOUT BUILDING REACTIONS FROM THE PREMANUFACTURED BUILDING DESIGNER AND ARE SUBJECT TO CHANGE ONCE BUILDING REACTIONS HAVE BEEN REVIEWED.
 - BOTTOM OF NEW FOOTING ELEVATION TO MATCH BOTTOM OF EXISTING FOOTING ELEVATIONS OF EXISTING BUILDING.
 - CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF ALL FLOOR CONTROL JOINTS WITH ANY ARCHITECTURAL REQUIREMENTS.
 - SEE S500 SERIES FOR TYPICAL ALL SECTIONS, FOUNDATION, AND TYPICAL DETAILS.
 - COORDINATE DIMENSIONS WITH ARCHITECTURAL AND METAL BUILDING MANUFACTURER.
 - UNLESS NOTED OTHERWISE ON PLANS, BOTTOM OF EXTERIOR FOOTINGS SHALL BE -36" BELOW EXTERIOR GRADE PER GEOTECHNICAL REPORT.
- C.J. : INDICATES A CONTROL JOINT IN THE SLAB ON GRADE. SEE TYPICAL CONTROL JOINT DETAIL.
- INDICATES AREA TO RECEIVE VAPOR BARRIER. SEE GENERAL NOTES FOR MORE INFORMATION.

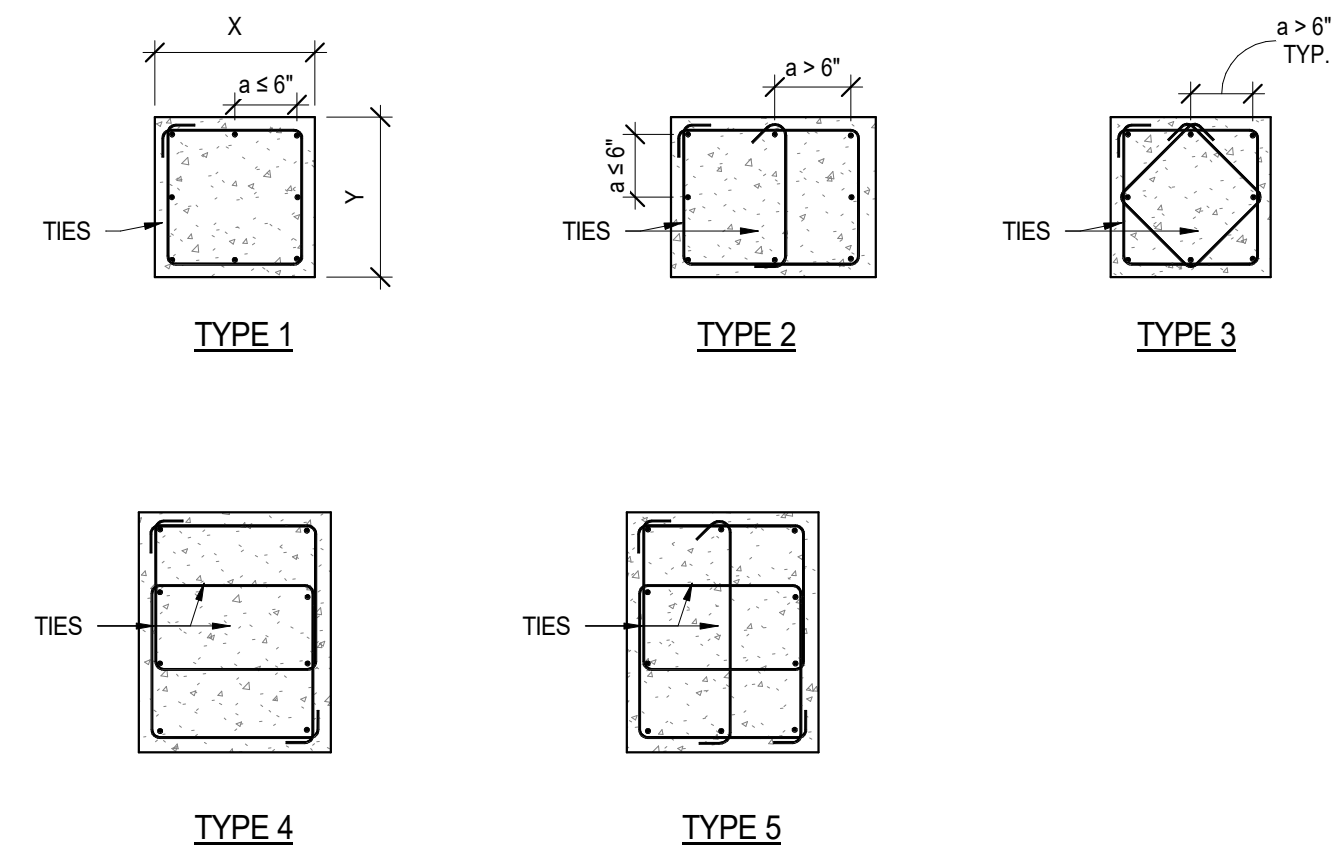


SPREAD FOOTING SCHEDULE

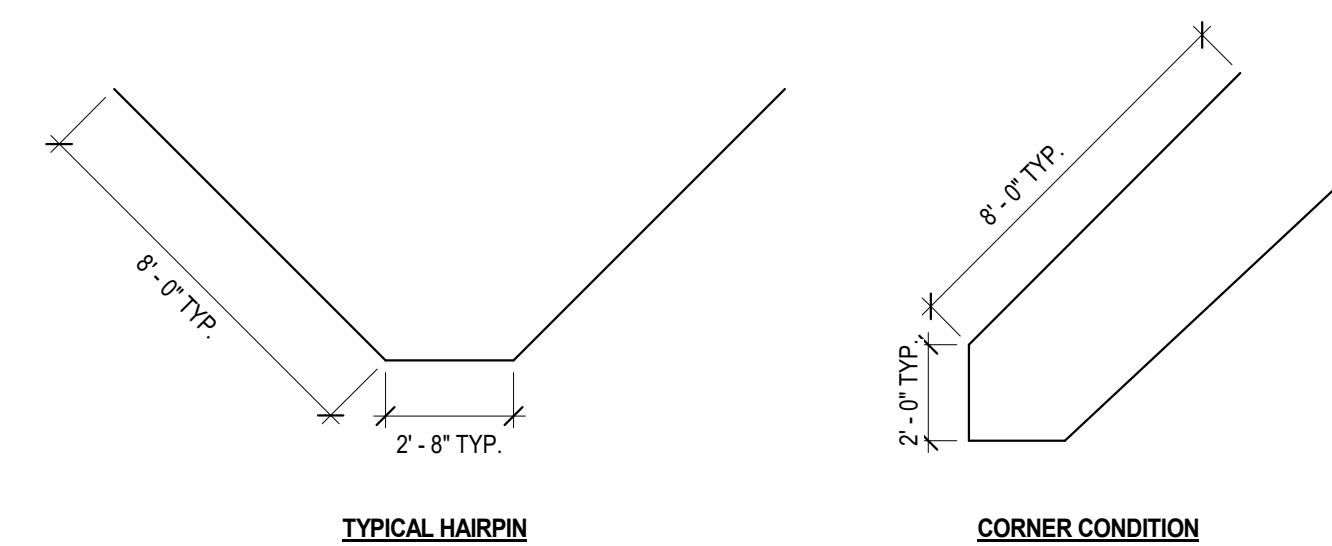
MARK	LENGTH	WIDTH	THICKNESS	BOTTOM REINFORCEMENT	Top Reinforcement
SF5.0	5'-0"	5'-0"	1'-6"	(5) #6 BARS EACH WAY	-
SF5.5	5'-6"	5'-6"	1'-6"	(5) #6 BARS EACH WAY	-
SF9.0	9'-0"	9'-0"	1'-6"	(9) #6 BARS EACH WAY	(9) #5 BARS EACH WAY

CONCRETE PIER SCHEDULE

MARK	SIZE (x,y)	VERT. REINF. DOWELED FROM FTG.	TIES @ 8" o.c.	TOP OF PIER ELEV.	REINFORCING TYPE
CP24	24x24	(8) #6	#4	0'-0"	3
CP24a	24 x 30	(8) #7	#4	0'-0"	4
CP30	30 x 30	(10) #7	#4	0'-0"	5



2 PIER REINFORCING TYPES
S-101 1/2" = 1'-0"



NOTE: HAIRPIN DESIGN IS SUBJECT TO ACTUAL BUILDING LOADS TO BE SUBMITTED TO EOR FOR REVIEW. FINAL LENGTH AND QUANTITY OF HAIRPINS ARE MAY CHANGE. SEE TYPICAL DETAIL 6 / S-502

3 TYPICAL HAIRPIN
S-101 1/4" = 1'-0"



JOHNSON, MIRMAN & THOMPSON, INC.
40 WIGHT AVENUE
HUNT VALLEY, MARYLAND 21030-2059
410.329.3100
WWW.JMT.COM

SEAL:



PROJECT:

NEWARK WAREHOUSE #2 EXPANSION

406 PHILIPS AVENUE
NEWARK, DE 19711

PREPARED FOR:

CITY OF NEWARK
DELAWARE

MARK DATE DESCRIPTION

PROJECT NO: 20-03026-029

DATE: 7/22/24

SCALE: As indicated

DESIGNED BY: BE

DRAWN BY: BE

CHECKED BY: CR

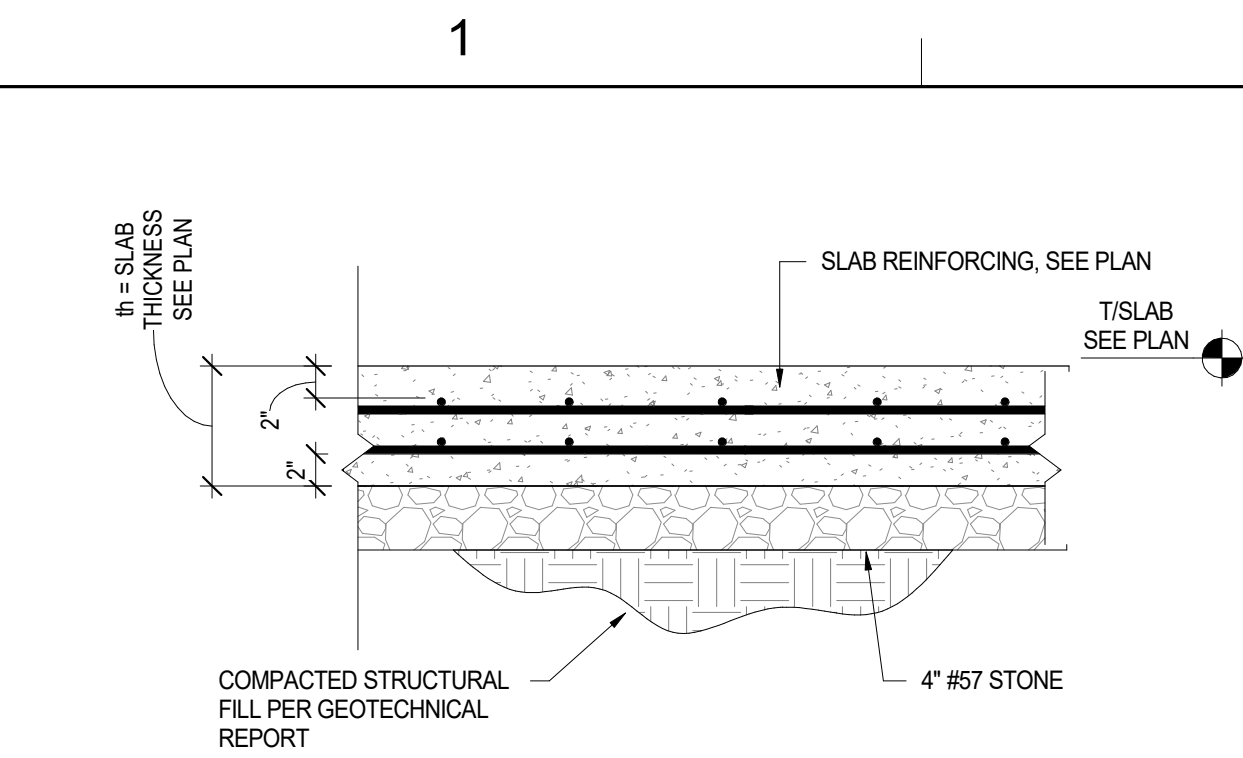
DRAWING TITLE:

FOUNDATION PLAN

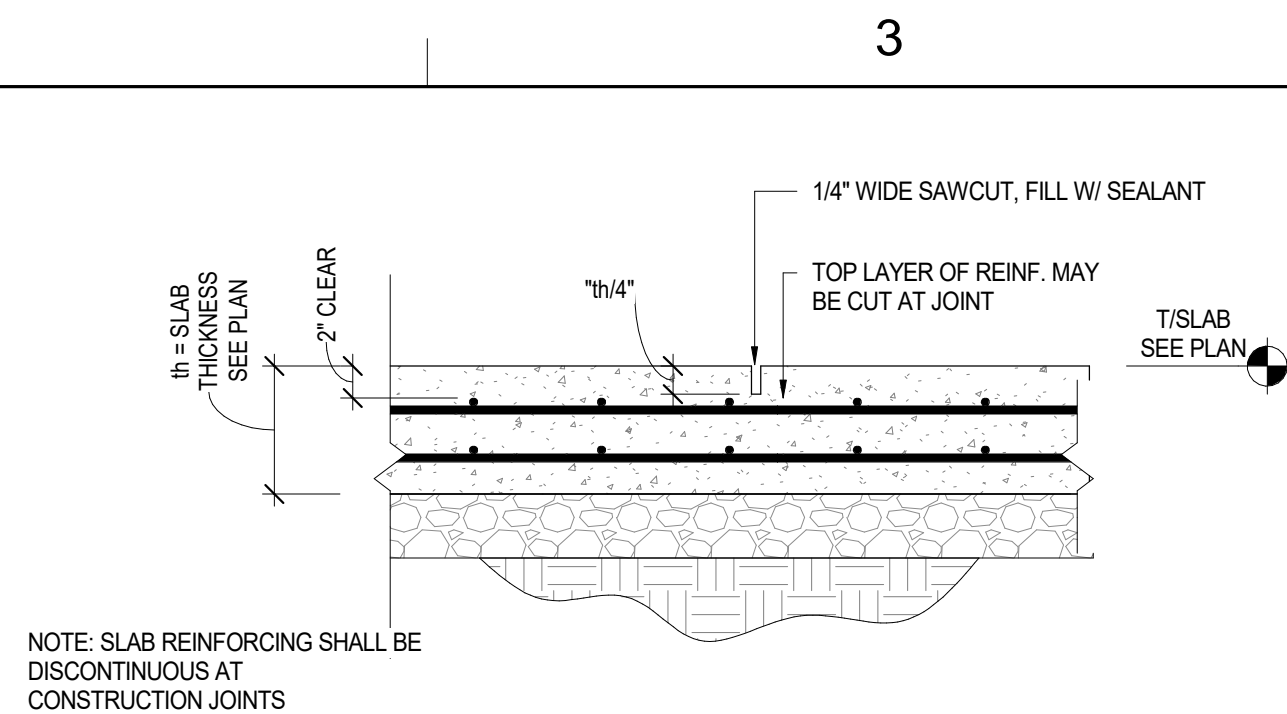
SHEET NUMBER:

S-101

© JMT 2021

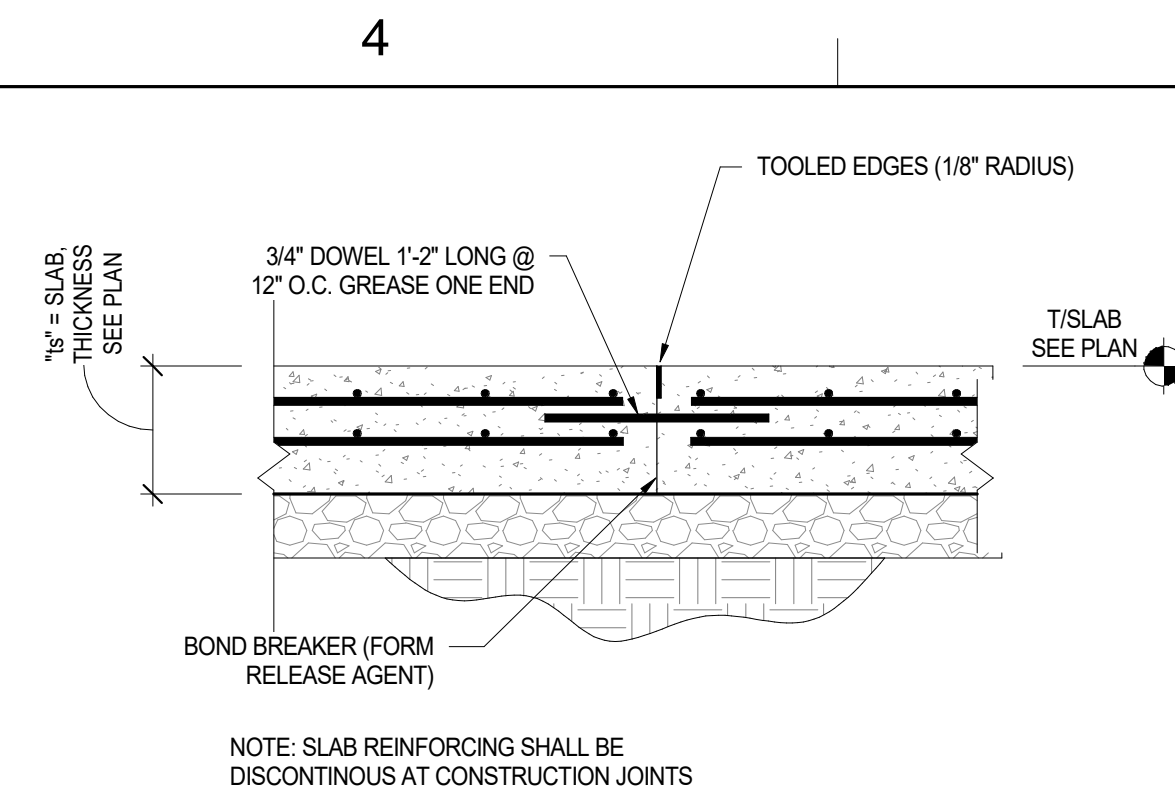


1 TYP. SLAB ON GRADE DETAIL
S-501 1" = 1'-0"

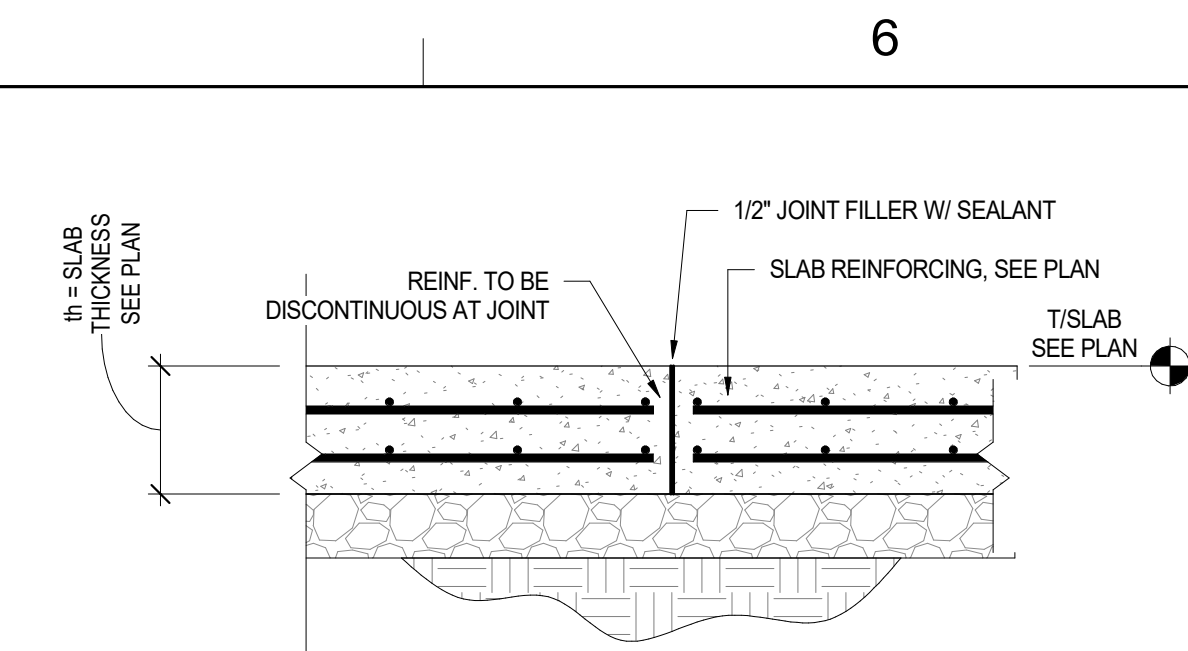


2
S-501

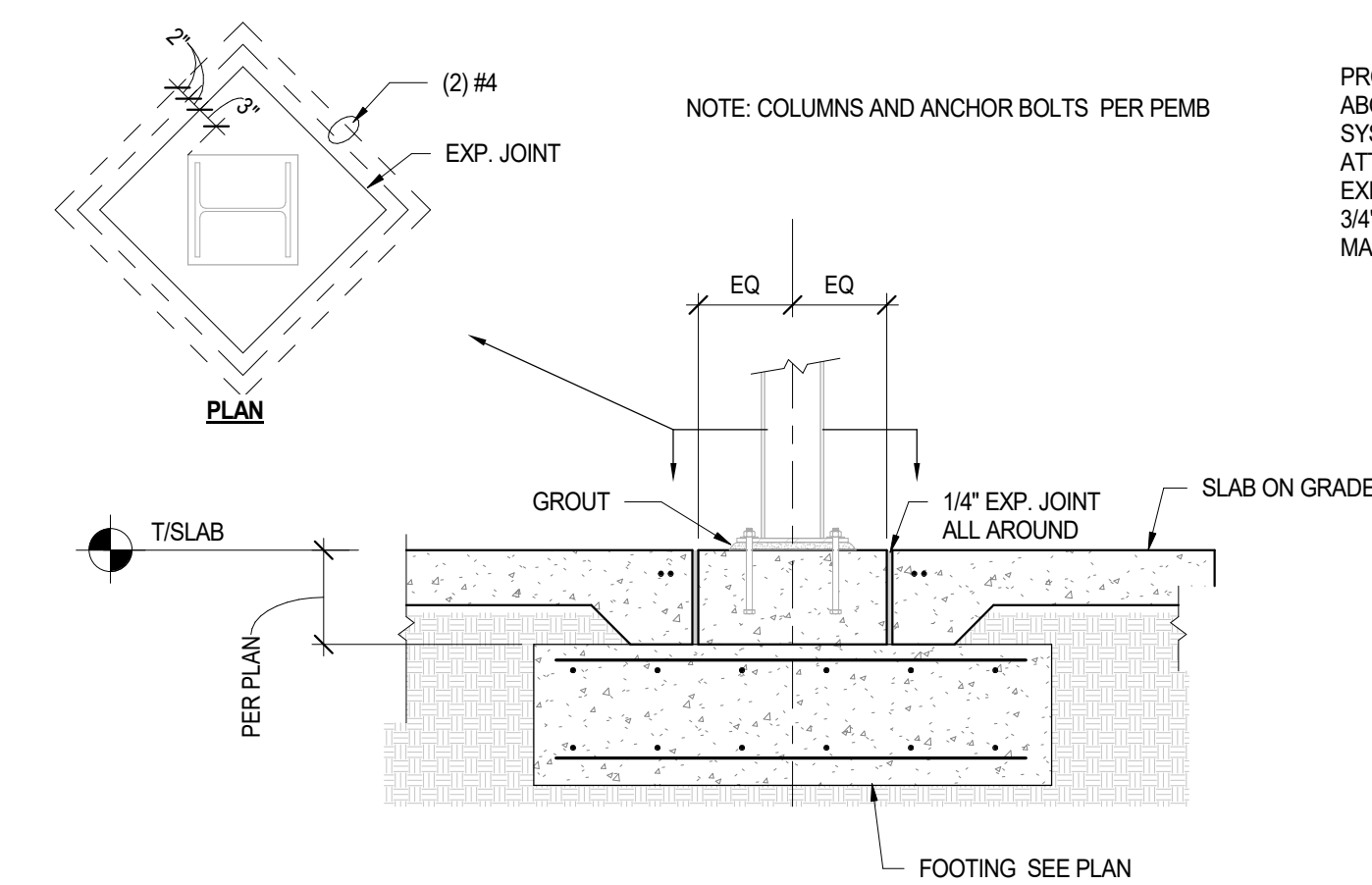
TYP. SLAB ON GRADE DETAIL - CONTROL JOINT
1" = 1'-0"



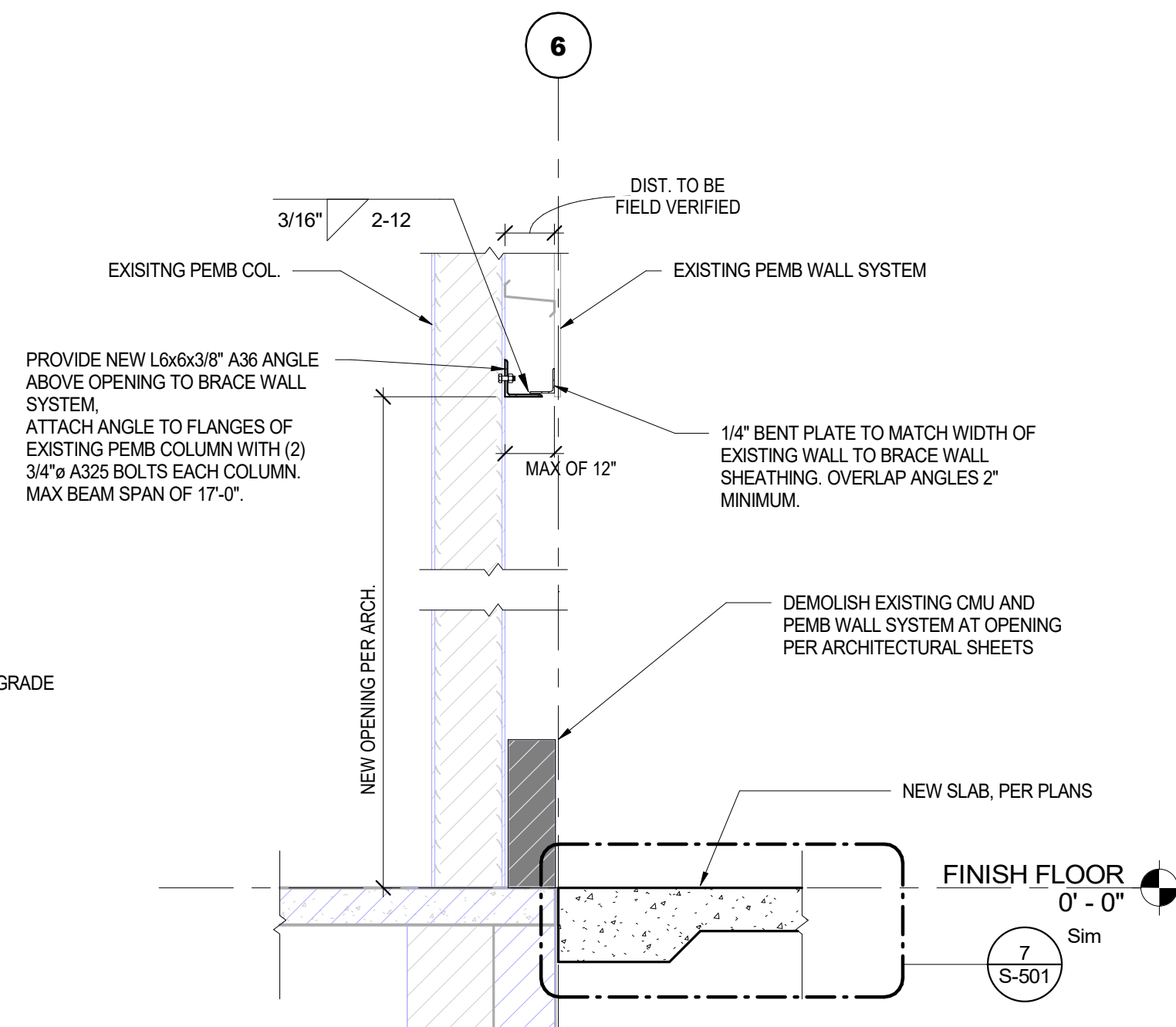
3 TYP. SLAB ON GRADE DETAIL - CONST. JOINT
S-501 1" = 1'-0"



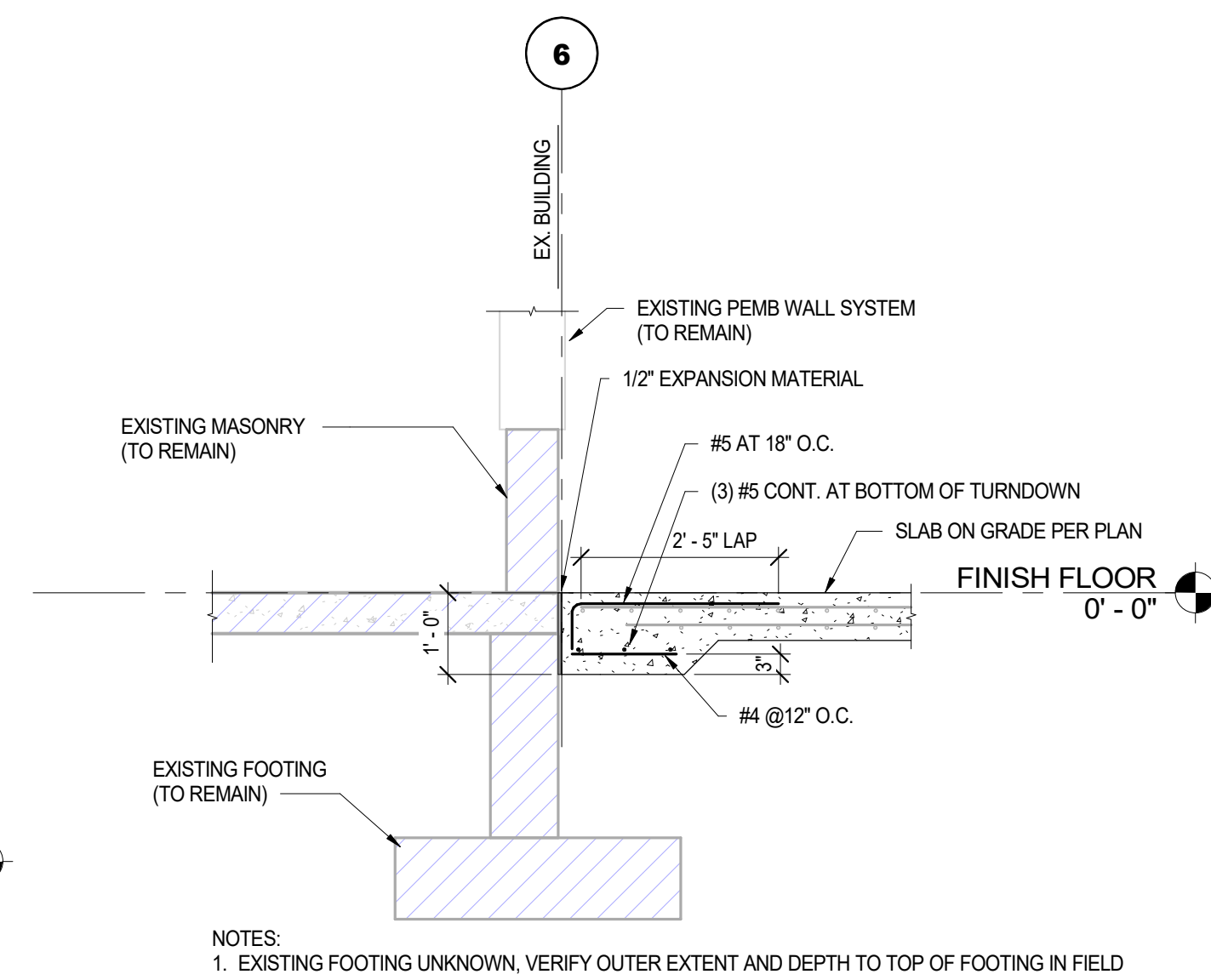
4 TYP. SLAB ON GRADE DETAIL - ISOLATION JOINT
S-501 1" = 1'-0"



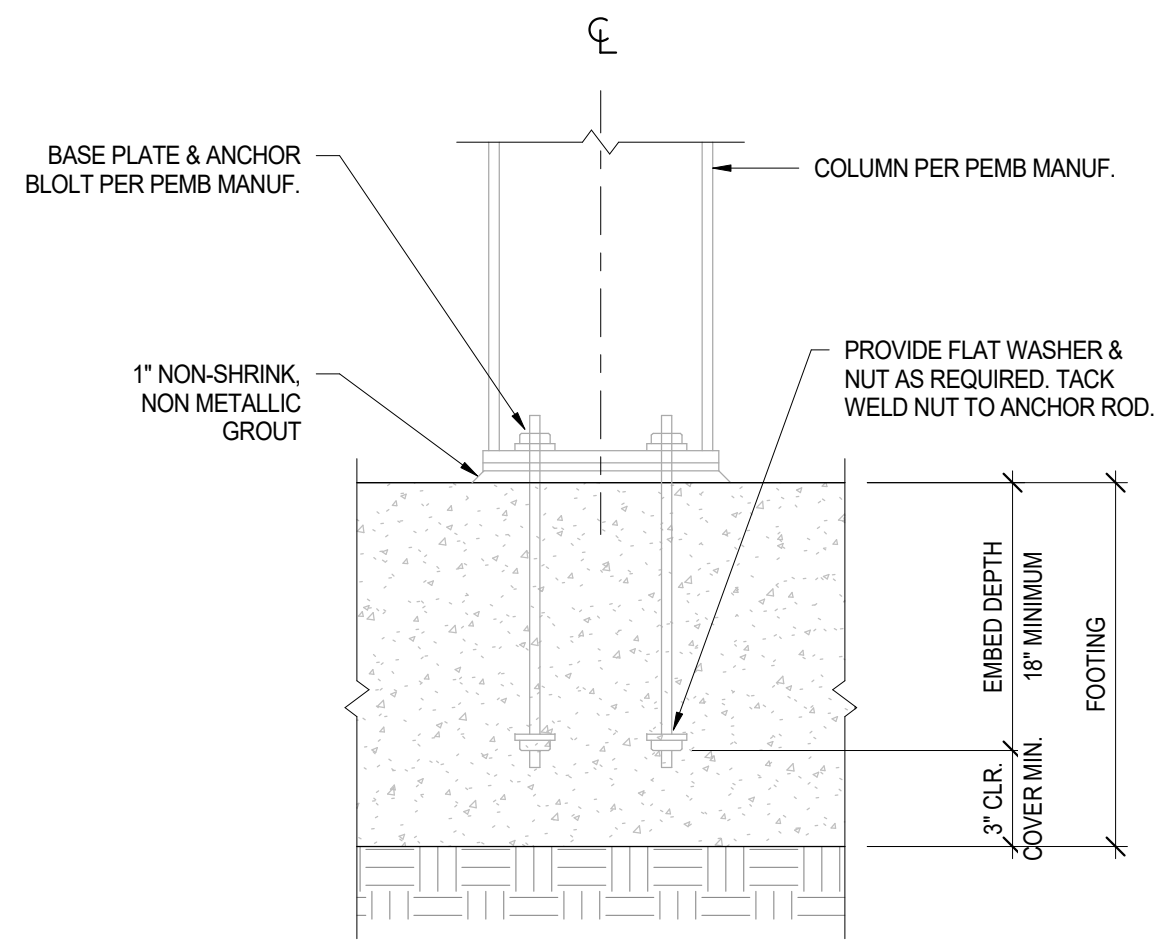
5 INTERIOR STEEL COLUMN FOOTING
S-501 1/2" = 1'-0"



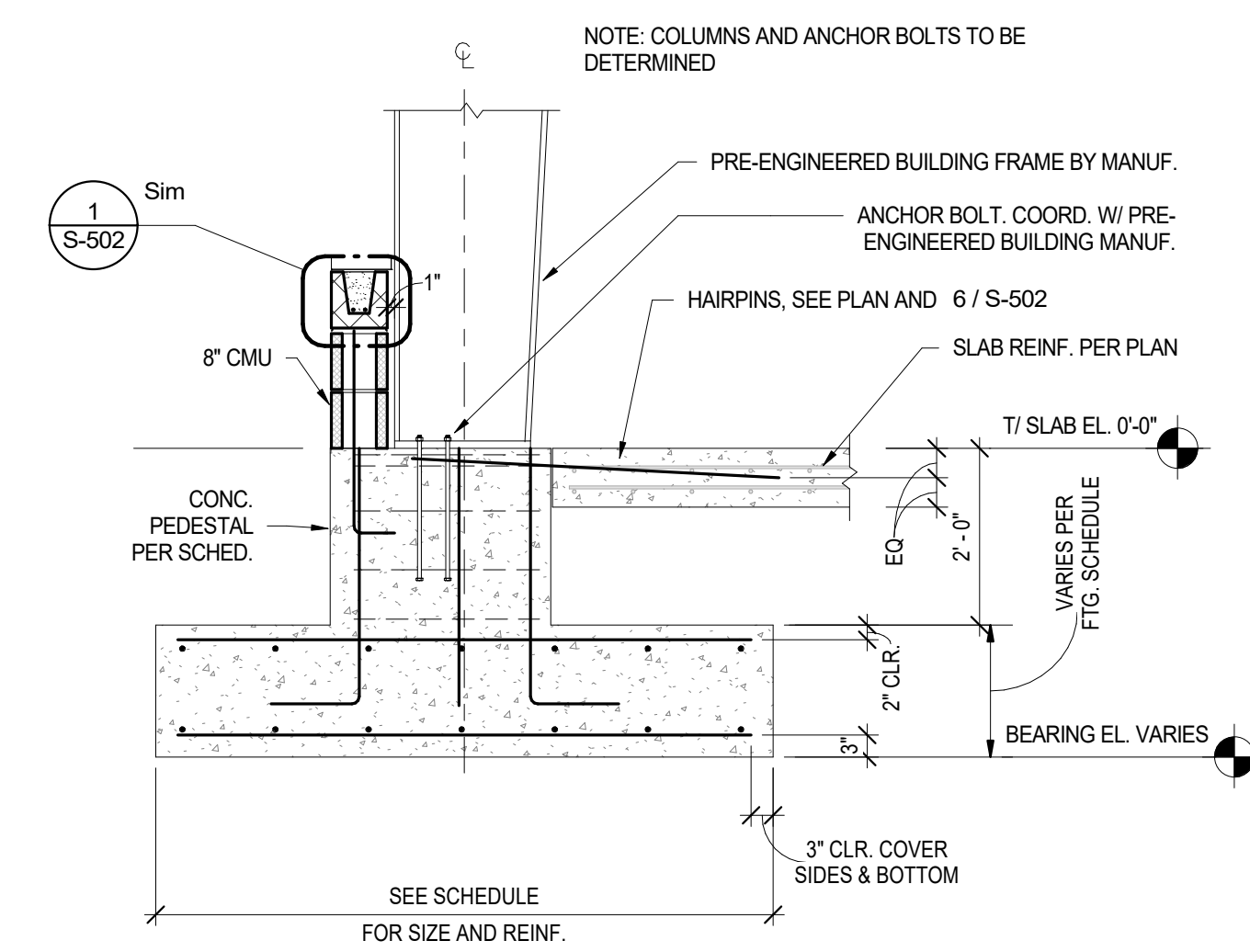
6 SECTION AT NEW OPENING IN EXISTING PEMB
S-501 1/2" = 1'-0"



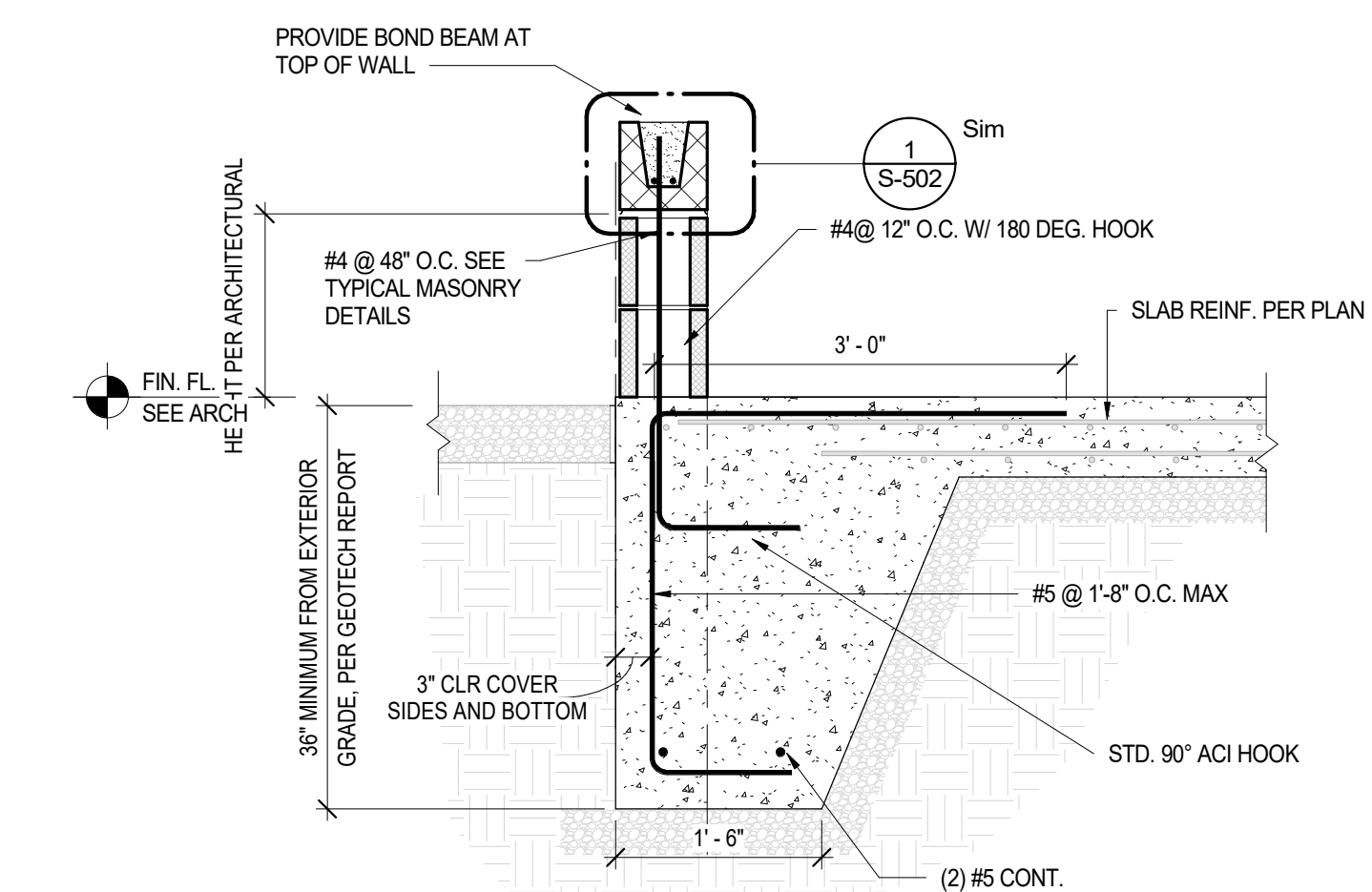
7 CONCRETE TURNDOWN AT EXISTING BUILDING
S-501 1/2" = 1'-0"



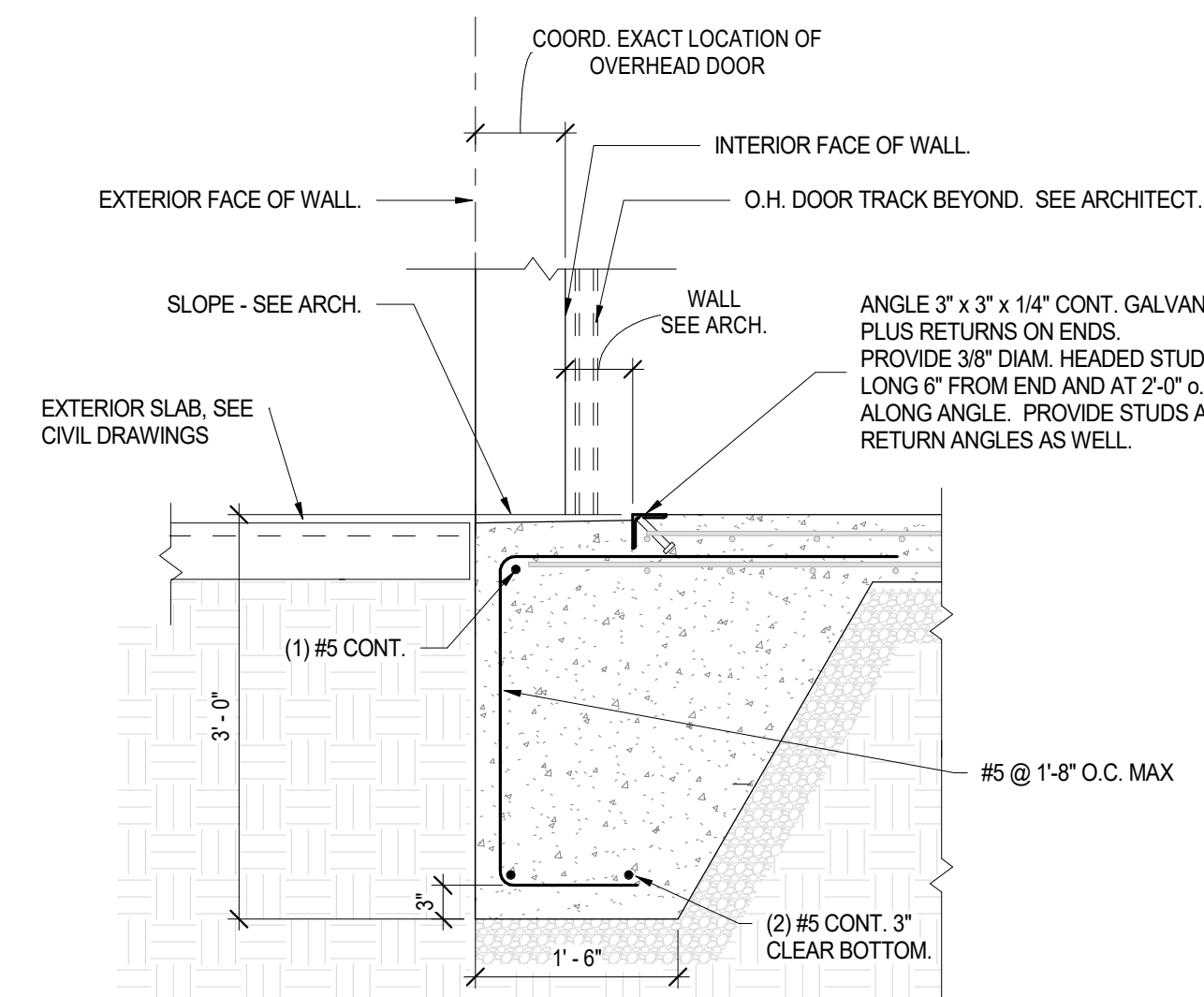
8 SECTION OF TYP COL BASE PLATE DETAIL
S-501 3/4" = 1'-0"



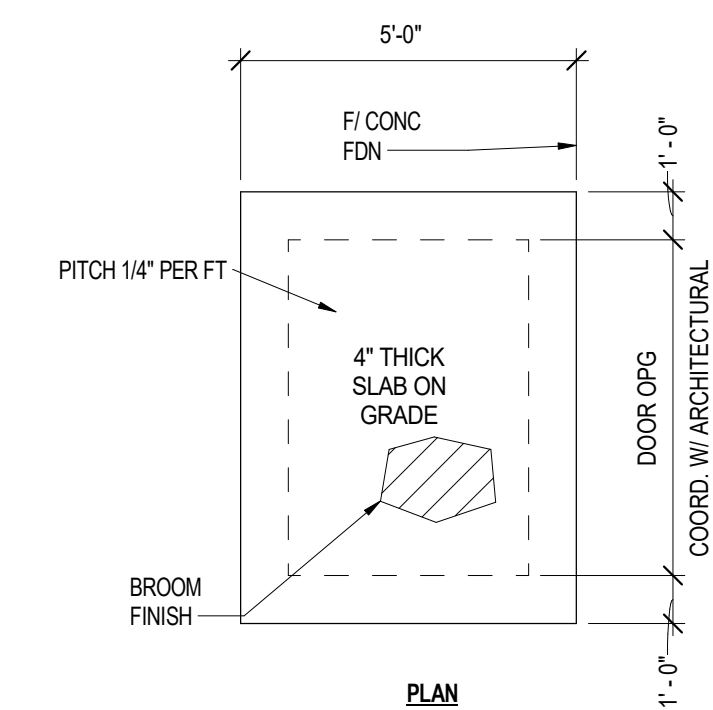
9 TYPICAL FOOTING BELOW EXTERIOR PEMB COLUMN
S-501 1/2" = 1'-0"



10 TYPICAL PERIMETER TURNDOWN
S-501 $3/4" = 1'-0"$

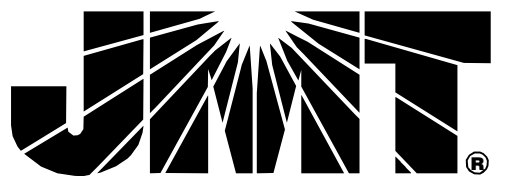


11 TURNDOWN AT OVERHEAD DOOR, RECESSED
S-501 3/4" = 1'-0"



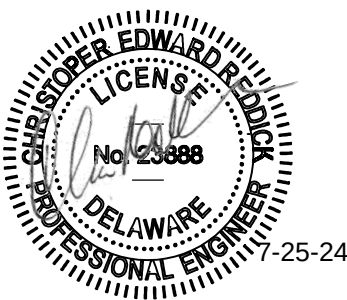
12
S-501

DETAIL - CONCRETE PAD AT ENTRANCE LEVEL
1/4" = 1'-0"



JOHNSON, MIRMIRAN & THOMPSON, INC.
40 WIGHT AVENUE
HUNT VALLEY, MARYLAND 21030-2059
410.329.3100
WWW.JMT.COM

SEAL:



PROJECT:

NEWARK WAREHOUSE #2 EXPANSION

406 PHILIPS AVENUE
NEWARK, DE 19711

PREPARED FOR:

CITY OF NEWARK
DELAWARE

MARK	DATE	DESCRIPTION
------	------	-------------

PROJECT NO: 20-03026-029

DATE: 7/22/24

SCALE: As indicated

DESIGNED BY: BE

DRAWN BY: BE

DRAWING TITLE:

FOUNDATION DETAILS

SHEET NUMBER:

S-501

Aubresk Docs/20-03026-029- City Of Newark Warehouse #3 Expansion/20-03026-029 Newark Warehouse Expansion- Struct.rvt
7/22/2024 3:55:25 PM

E
E
D
C
B
A

1

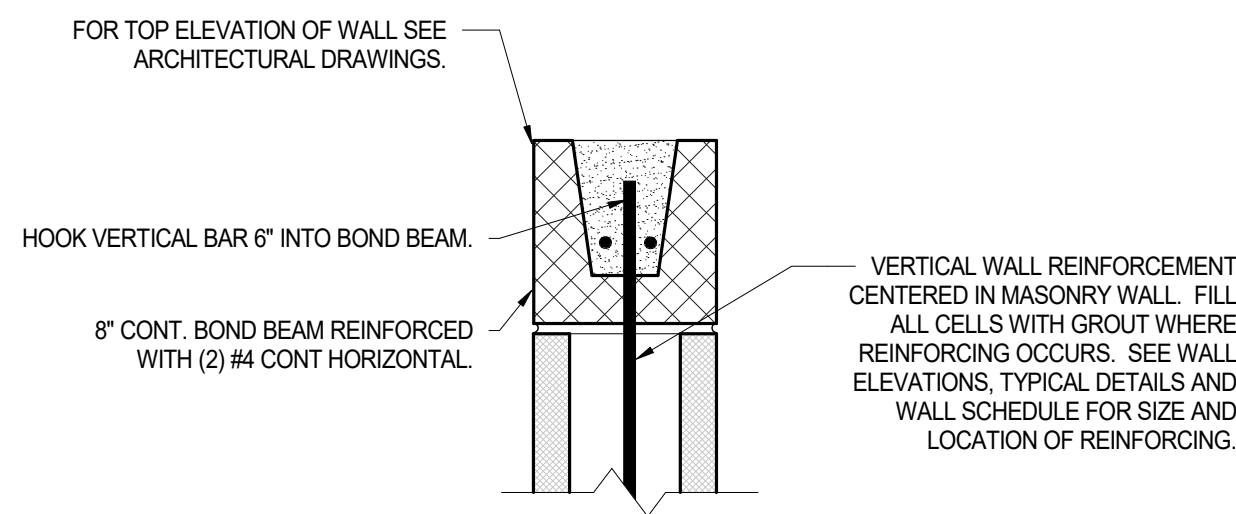
2

3

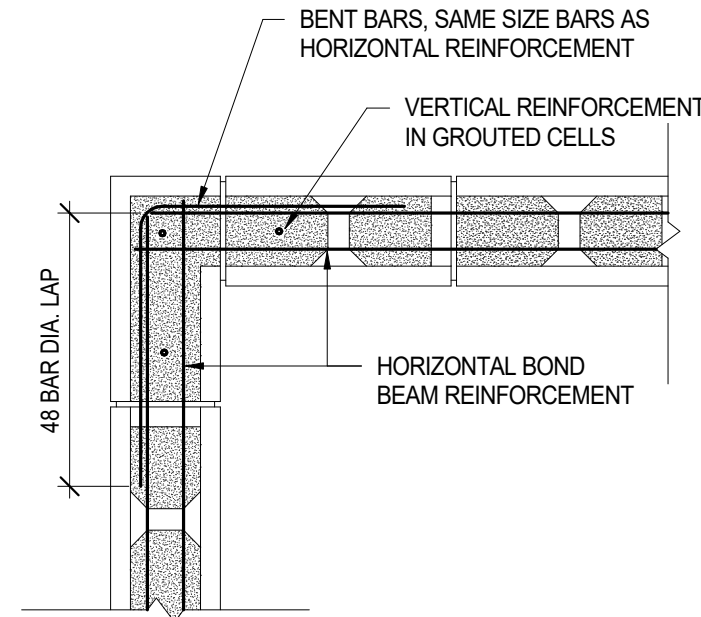
4

5

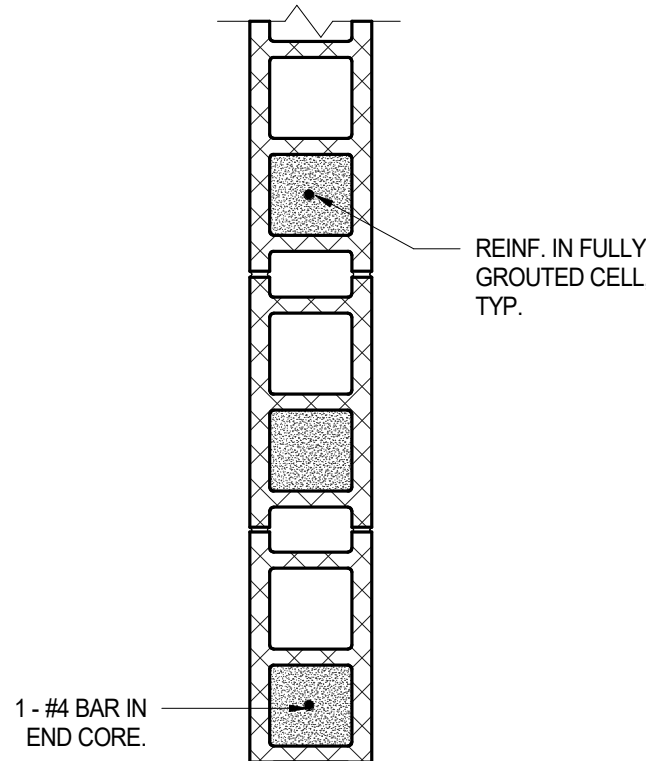
6



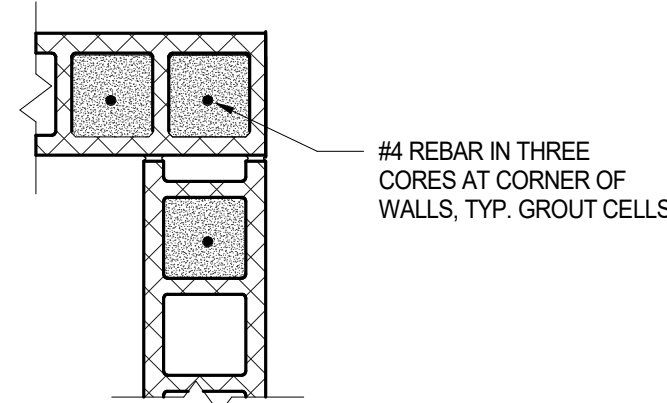
1 BOND BEAM TOP OF WALL
S-502 1 1/2" = 1'-0"



2 BOND BEAM CORNER
S-502 3/4" = 1'-0"



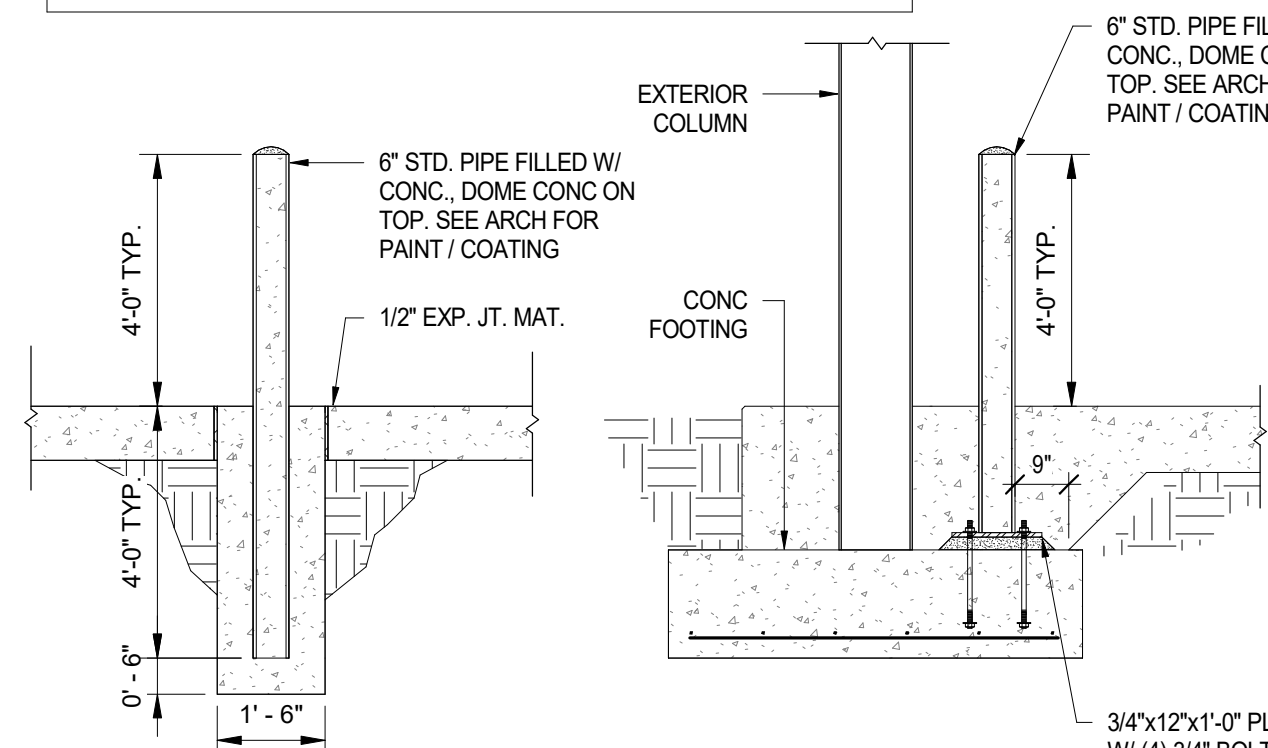
3 CMU - TYP. CMU WALL REINFORCING DETAILS
S-502 1" = 1'-0"



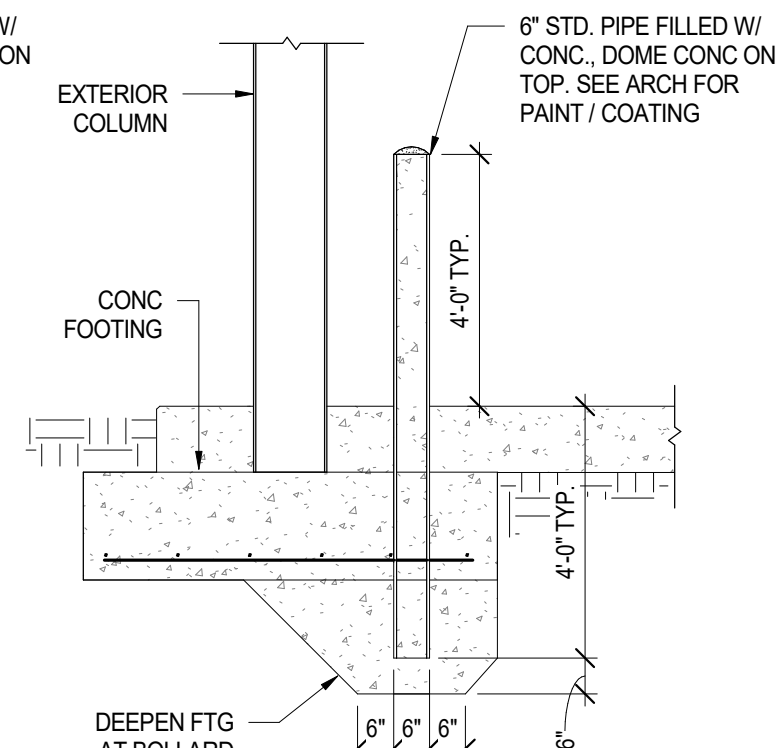
CORNER OF WALL

ENDS OF WALLS AT OPENINGS

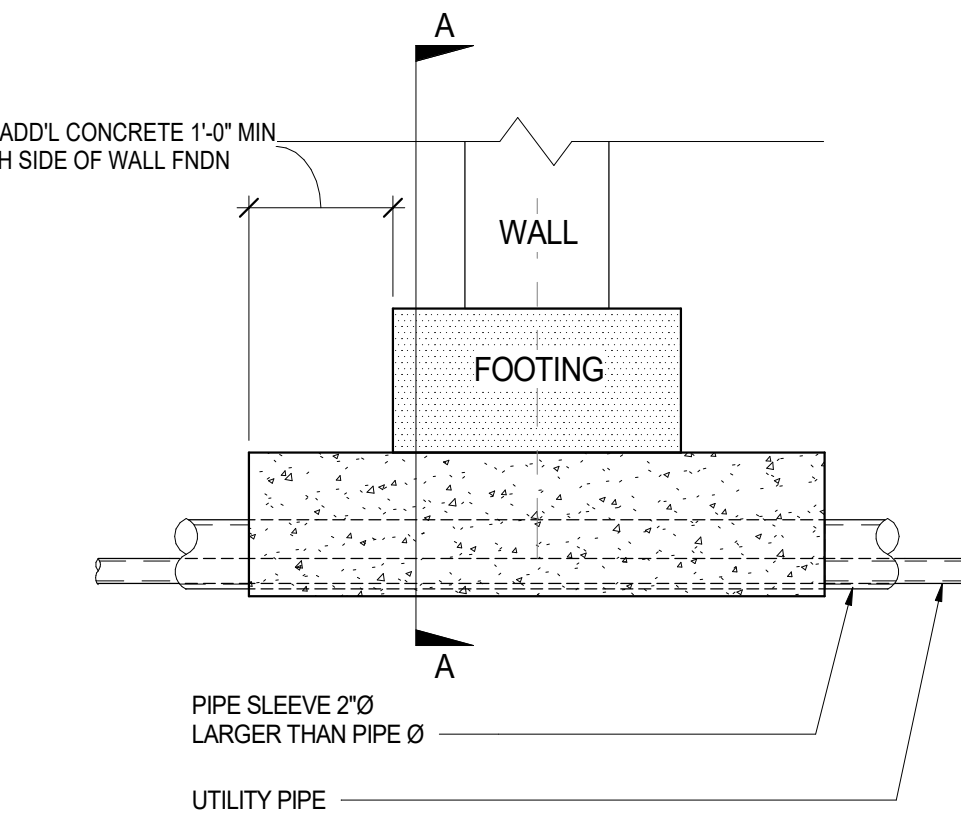
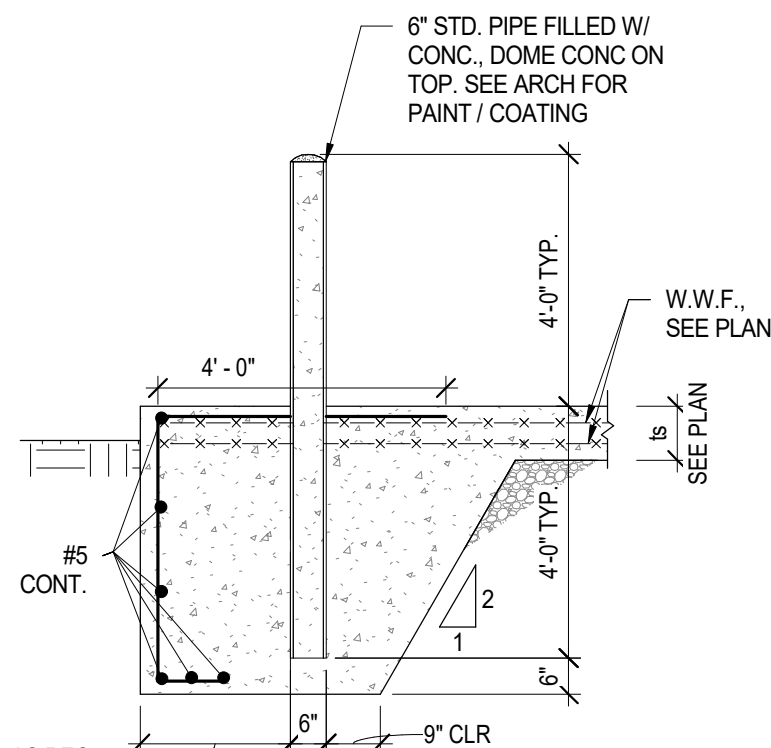
NOTE: COORDINATE LOCATIONS OF BOLLARDS WITH ARCH AND CIVIL PLANS.



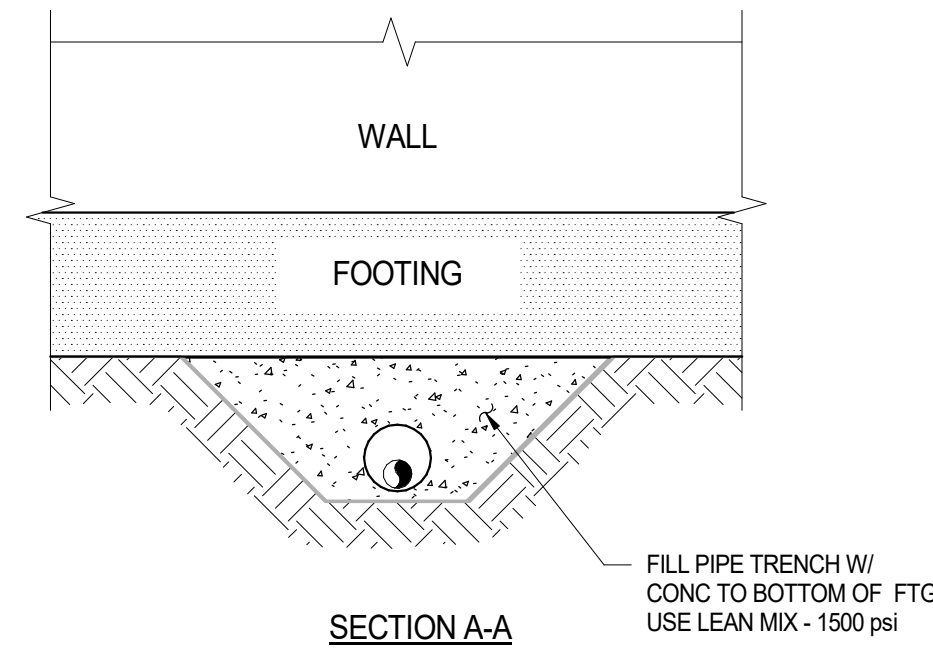
4 BOLLARD DETAIL (WHERE REQUIRED BY ARCHITECTURAL DRAWINGS)
S-502 3/8" = 1'-0"



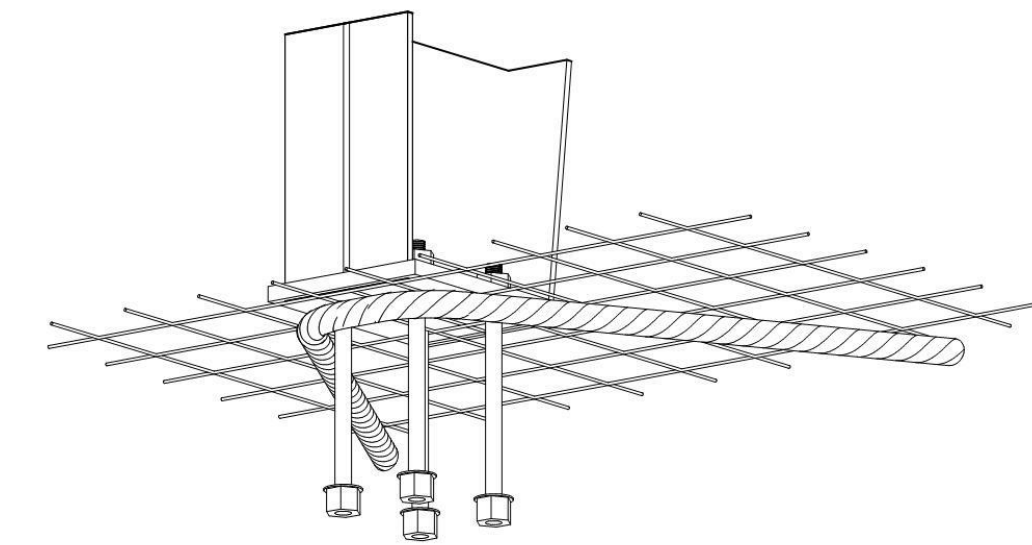
5 UTILITY PIPE UNDER WALL FOOTING OR SPREAD FOOTING
S-502 1 1/2" = 1'-0"



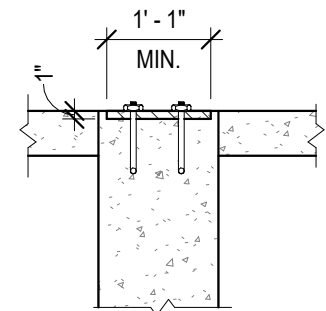
7 COLUMN ISOLATION JOINT JOINT LAYOUT - PLAN VIEW
S-502 1/2" = 1'-0"



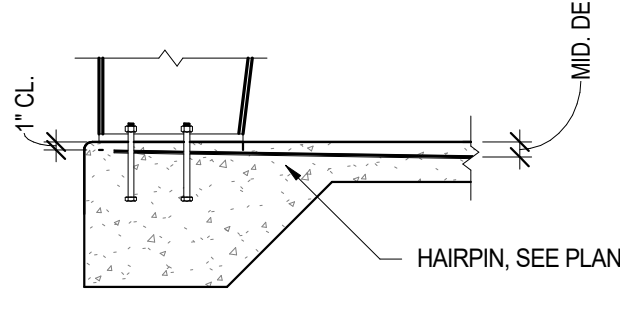
SECTION A-A



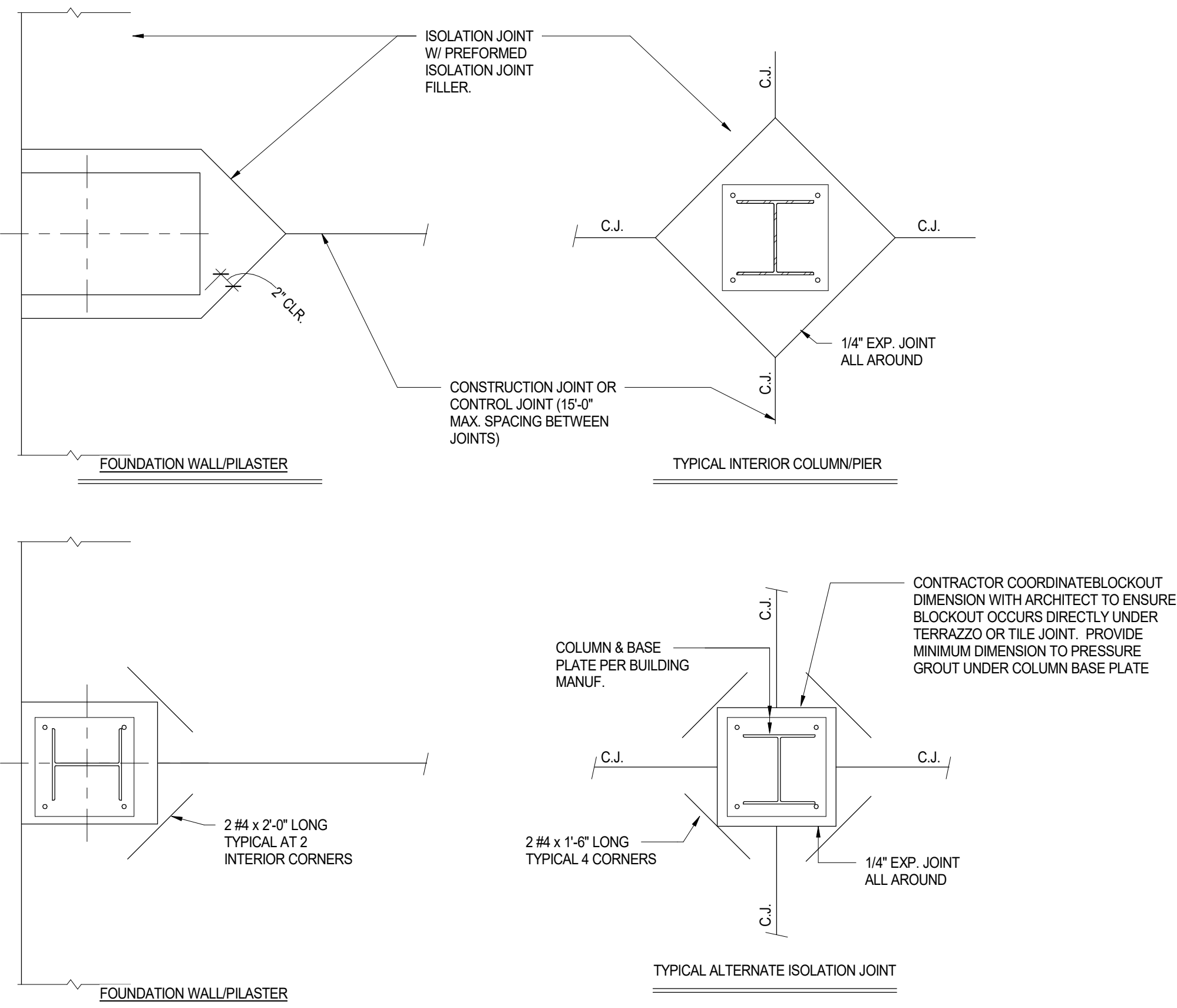
6 TYPICAL DETAIL OF HAIRPIN CONNECTION
S-502 1/2" = 1'-0"



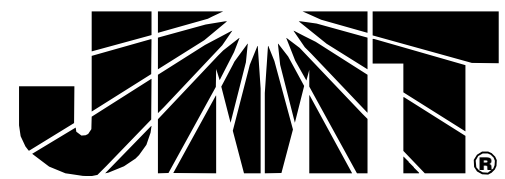
SECTION C



SECTION B



7 COLUMN ISOLATION JOINT JOINT LAYOUT - PLAN VIEW
S-502 1/2" = 1'-0"



JOHNSON, MIRMIAN & THOMPSON, INC.
40 WIGHT AVENUE
HUNT VALLEY, MARYLAND 21030-2059
410.329.3100
WWW.JMT.COM

SEAL:



PROJECT:

NEWARK WAREHOUSE #2 EXPANSION

406 PHILIPS AVENUE
NEWARK, DE 19711

PREPARED FOR:

CITY OF NEWARK
DELAWARE

MARK	DATE	DESCRIPTION
PROJECT NO:	20-03026-029	
DATE:	7/22/24	
SCALE:	As indicated	
DESIGNED BY:	BE	
DRAWN BY:	BE	
CHECKED BY:	CR	

DRAWING TITLE:
TYPICAL DETAILS

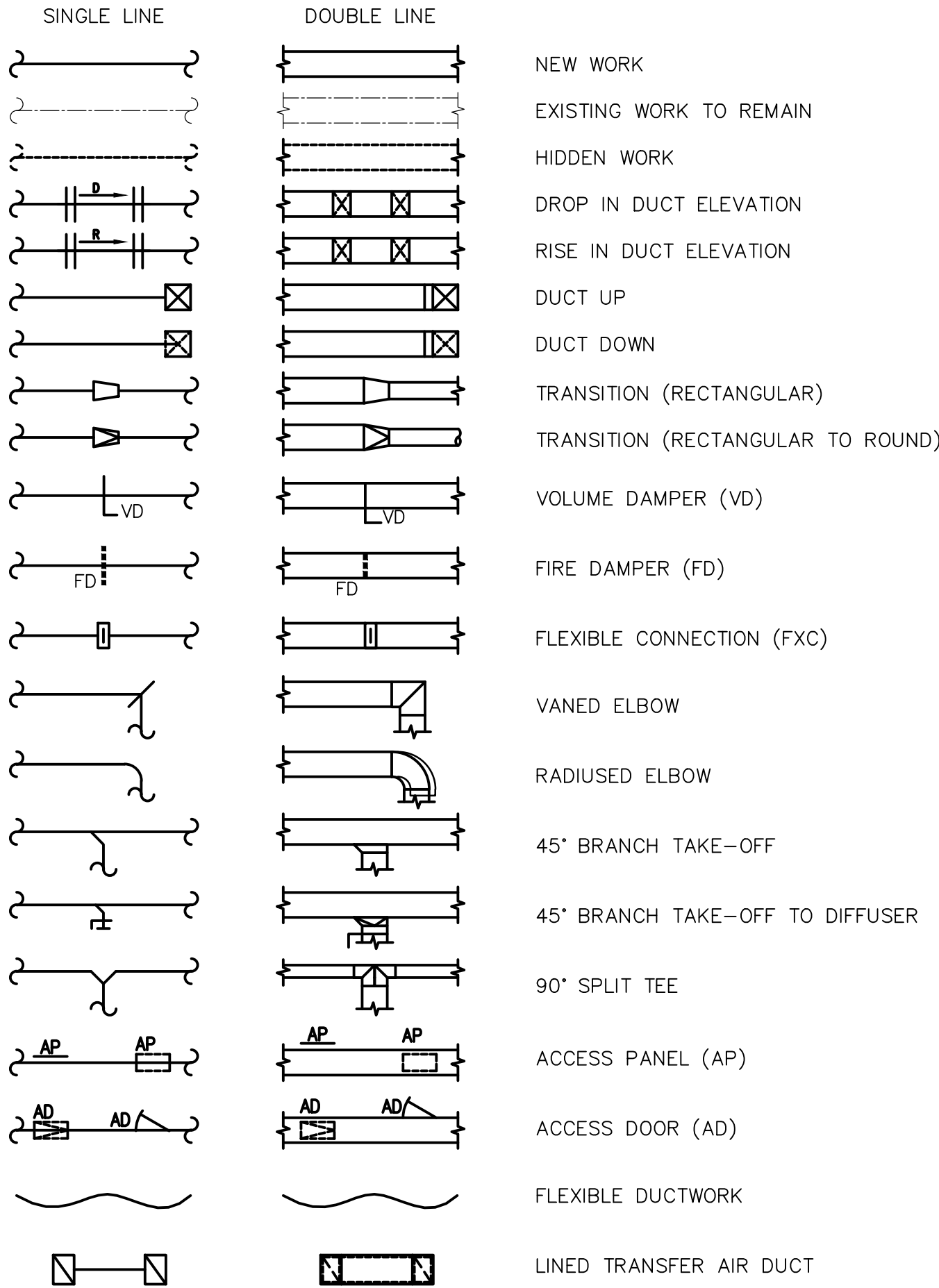
SHEET NUMBER:

S-502

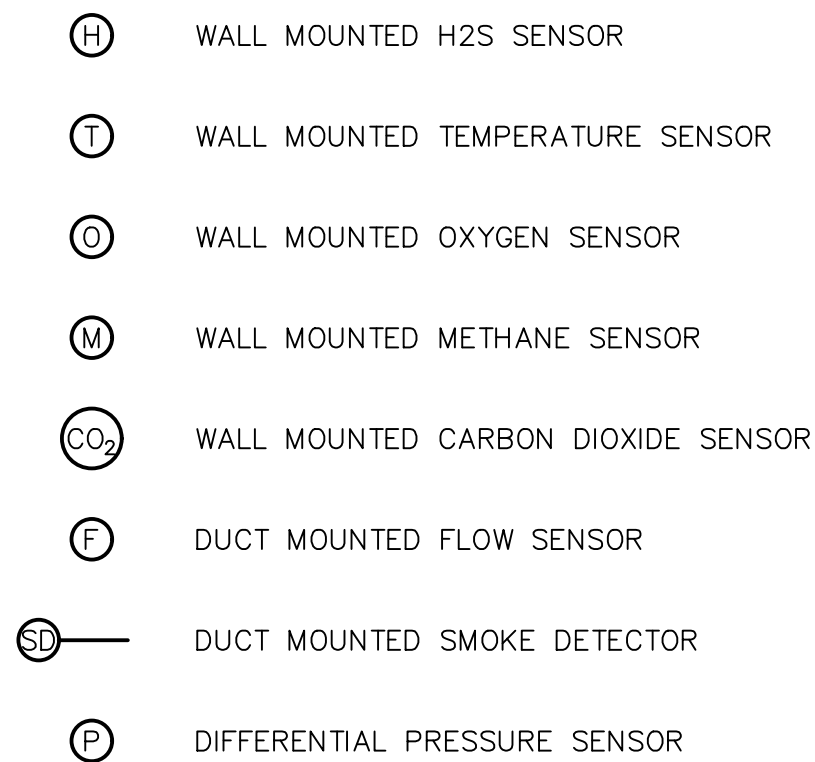
2/1/2024 3:07:09 PM

F
E
D
C
B
A

DUCTWORK SYMBOLS



CONTROL DEVICE SYMBOLS



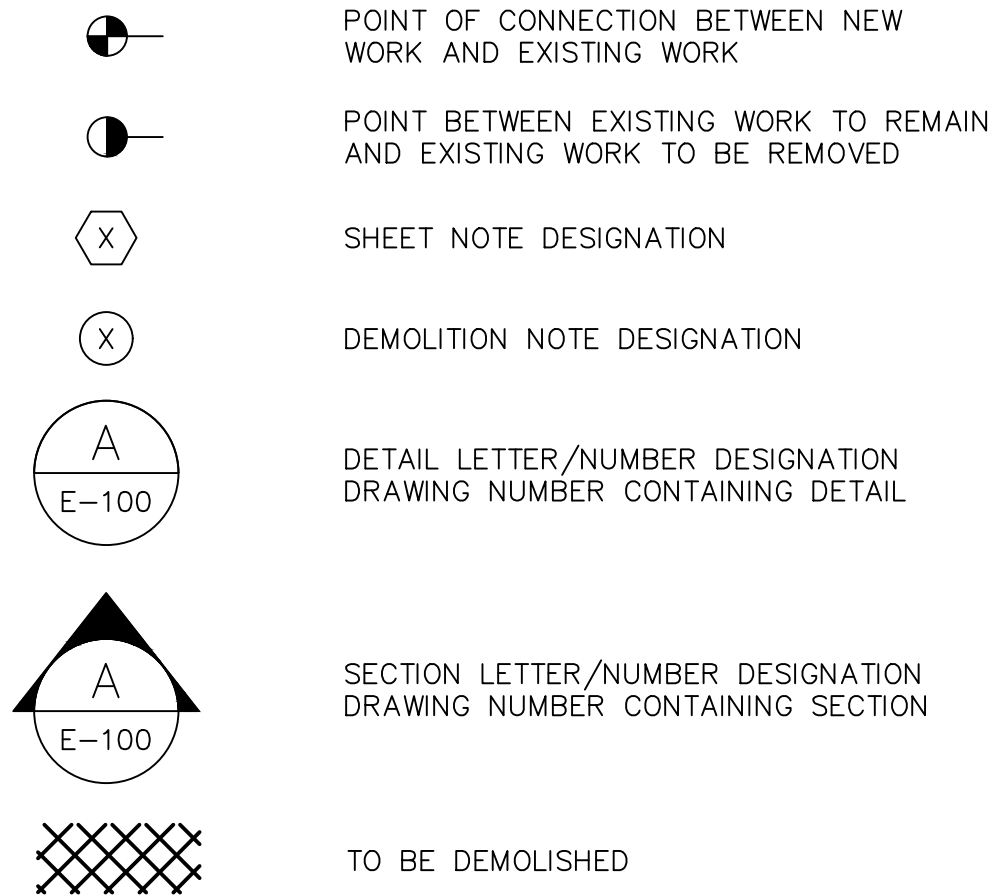
ABBREVIATIONS

AC	AIR CONDITIONING	L	LOUVER
ACC	AIR COOLED CONDENSER	LB.	POUNDS
AD	ACCESS DOOR	LB/HR	POUNDS PER HOUR
AHU	AIR HANDLING UNIT	LD	LINEAR DIFFUSER
AP	ACCESS PANEL	LP	LOW PRESSURE
AS	AIR SEPARATOR	LPC	LOW PRESSURE CONDENSATE
B	BOILER	LPS	LOW PRESSURE STEAM
BFP	BOILER FEED PUMP	MA	MIXED AIR
BTU	BRITISH THERMAL UNITS	MAX.	MAXIMUM
CAD	CLEAN AGENT DAMPER	MBH	1000 BTU
CC	COOLING COIL	MIN.	MINIMUM
CD	CEILING DIFFUSER	MOD	MOTOR OPERATED DAMPER
CFM	CUBIC FEET PER MINUTE	MP	MEDIUM PRESSURE
CH	CHILLER	MPC	MEDIUM PRESSURE CONDENSATE
CHWP	CHILLED WATER PUMP	MPS	MEDIUM PRESSURE STEAM
CHWR	CHILLED WATER RETURN	(N)	NEW
CHWS	CHILLED WATER SUPPLY	NC	NORMALLY CLOSED
CP	CONDENSATE PUMP	NO	NORMALLY OPEN
CRAC	COMPUTER ROOM AIR CONDITIONING UNIT	OA	OUTDOOR AIR
CT	COOLING TOWER	OAI	OUTSIDE INTAKE AIR
CU	CONDENSING UNIT	O.C.	ON CENTER
CW	COLD WATER	OED	OPEN END DUCT
CWP	CONDENSER WATER PUMP	P	PUMP
CWR	CONDENSER WATER RETURN	PC	PUMPED CONDENSATE
CWS	CONDENSER WATER SUPPLY	PCHP	PROCESS CHILLER WATER PUMP
'F	DEGREES FAHRENHEIT	PCHR	PROCESS CHILLED WATER RETURN
D	DRAIN	PCHS	PROCESS CHILLED WATER SUPPLY
DC	DRY COOLER	PCHWP	PRIMARY CHILLED WATER PUMP
DOAS	DEDICATED OUTDOOR AIR SYSTEM	PCHWR	PRIMARY CHILLED WATER RETURN
DP	DIFFERENTIAL PRESSURE SWITCH	PHC	PREHEAT COIL
DTR	DUAL TEMPERATURE RETURN	PRV	PRESSURE REDUCING VALVE
DTS	DUAL TEMPERATURE SUPPLY	PSD	PLENUM SLOT DIFFUSER
DWG.	DRAWING	PSIG	POUNDS PER SQUARE INCH
(E)	EXISTING	QTY.	QUANTITY
EA	EXHAUST AIR	(R)	RELOCATE
EAV	EXHAUST AIR VALVE	RA	RETURN AIR
EB	ELECTRIC BASEBOARD HEATER	REL. HUM.	RELATIVE HUMIDITY
EF	EXHAUST FAN	RF	RETURN FAN
EG	EXHAUST GRILLE	RG	RETURN GRILLE
ER	EXHAUST REGISTER	RHC	REHEAT COIL
ET	EXPANSION TANK	RL	REFRIGERANT LIQUID
EUH	ELECTRIC UNIT HEATER	RPM	REVOLUTIONS PER MINUTE
F	FILTER	RR	RETURN REGISTER
FD	FIRE DAMPER	RS	REFRIGERANT SUCTION
FM	FLOW METER	RWR	RADIANT WATER RETURN
FOP	FUEL OIL PUMP	RWS	RADIANT WATER SUPPLY
FOR	FUEL OIL RETURN	SA	SOUND ATTENUATOR
FOS	FUEL OIL SUPPLY	SA	SUPPLY AIR
FPM	FEET PER MINUTE	SAV	SUPPLY AIR VALVE
FT	FEET	SMR	SNOWMELT RETURN
FTU	FAN TERMINAL UNIT	SMS	SNOWMELT SUPPLY
FXC	FLEXIBLE CONNECTION	SF	SUPPLY FAN
FZ	FREEZSTAT	SG	SUPPLY GRILLE
GA	GAGE	SM	SMOKE DETECTOR
GPM	GALLONS PER MINUTE	SR	SUPPLY REGISTER
GWP	GLYCOL WATER PUMP	SRV	SAFETY RELIEF VALVE
GWR	GLYCOL WATER RETURN	TA	TRANSFER AIR
GWS	GLYCOL WATER SUPPLY	TDH	TOTAL DYNAMIC HEAD
H	HUMIDIFIER	TEMP.	TEMPERATURE
HC	HEATING COIL	TG	TRANSFER GRILLE
HP	HEAT PUMP	TRD	TRANSFER DUCT
HP.	HORSEPOWER	TRG	TOP RETURN GRILLE
HPC	HIGH PRESSURE CONDENSATE	TSR	TOP SUPPLY REGISTER
HPS	HIGH PRESSURE STEAM	TYP.	TYPICAL
HWP	HOT WATER PUMP	UH	UNIT HEATER
HWR	HOT WATER RETURN	V	VENT
HWS	HOT WATER SUPPLY	VAV	VARIABLE AIR VOLUME
HX	HEAT EXCHANGER	VD	VOLUME DAMPER
IN.	INCHES	W.G.	WATER GAGE
KW	KILOWATT	WMS	WIRE MESH SCREEN (316SS)

EQUIPMENT TAG LEGEND

XX - YY - ZZ	EQUIPMENT TAG
XX	BUILDING NUMBER - SEE BELOW
	10 - BUILDING NAME
	20 - BUILDING NAME
	30 - BUILDING NAME
	ETC.
YY	EQUIPMENT TYPE, SEE EQUIPMENT SCHEDULES
ZZ	EQUIPMENT TAG NUMBER FOR BUILDING

MARKER LEGEND



SEAL:



PROJECT:

**NEWARK
WAREHOUSE #2
EXPANSION**

406 PHILLIPS AVENUE
NEWARK, DE 19711

PREPARED FOR:

**CITY OF NEWARK,
DELAWARE**

PROJECT NO: 20-03026-029

DATE: 7/25/2024

SCALE: As indicated

DESIGNED BY: CLJ

DRAWN BY: CJB/KDR

CHECKED BY: .

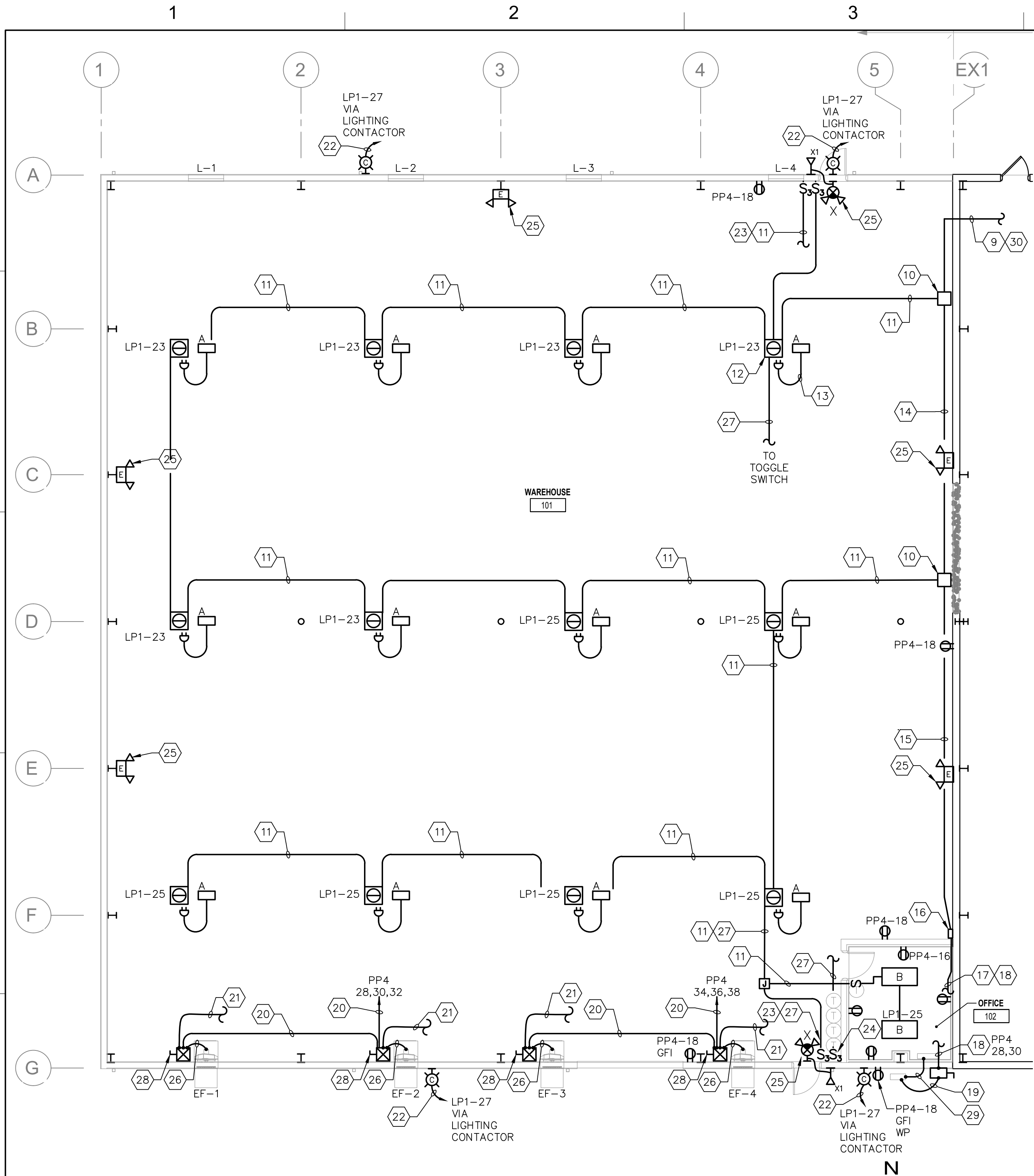
DRAWING TITLE:

LEGEND-MECHANICAL

SHEET NUMBER:

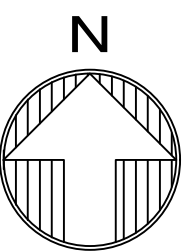
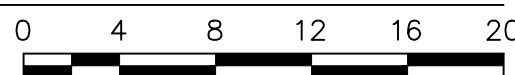
M001

2/1/2024 3:07:09 PM



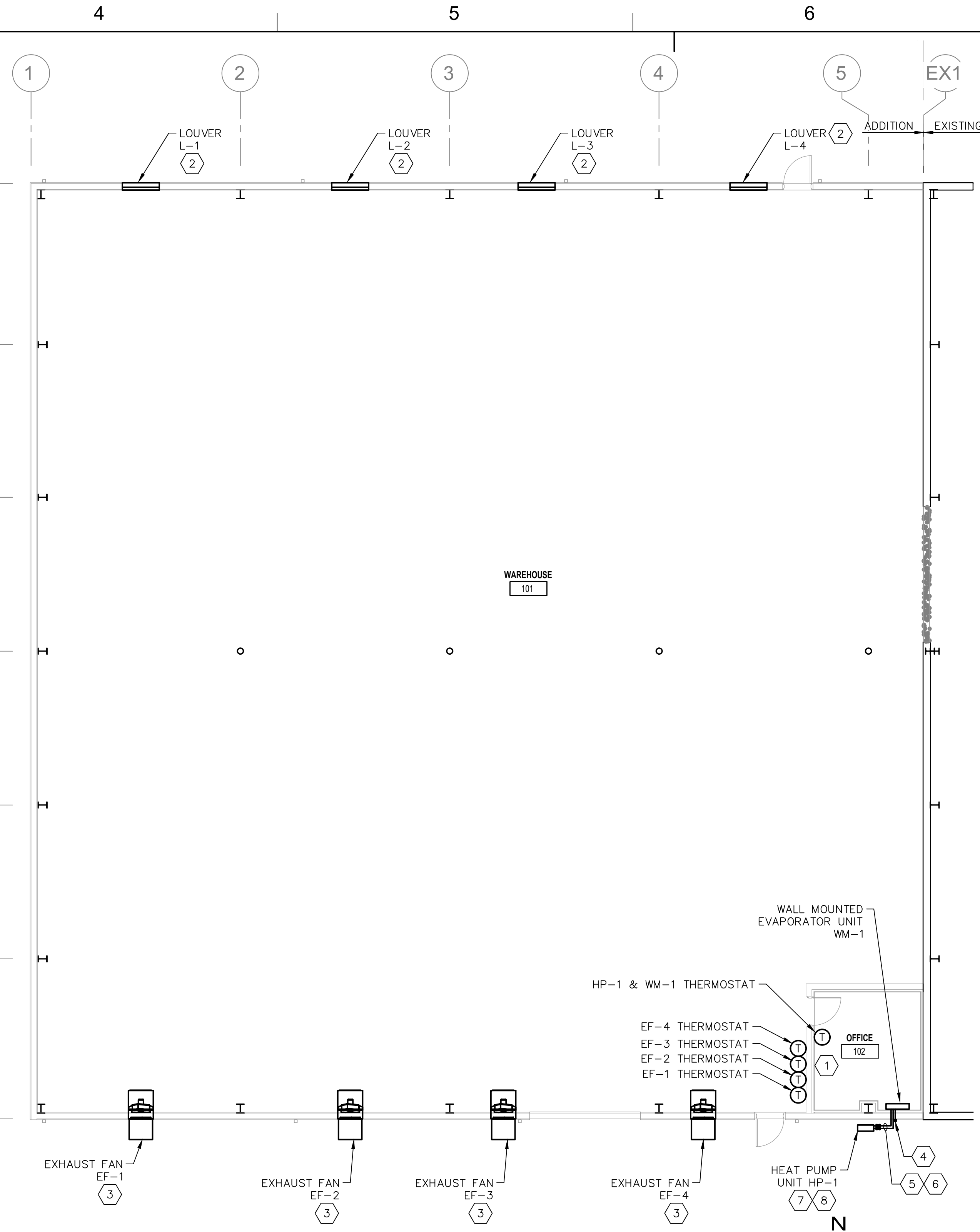
ENLARGED PLAN-POWER & LIGHTING-ELECTRICAL

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



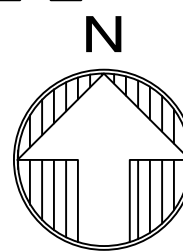
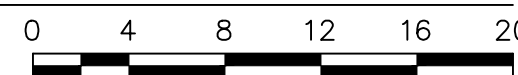
KEY NOTES:

1. INSTALL WALL MOUNT THERMOSTAT 4'-0" ABOVE FINISHED FLOOR.
2. INSTALL THE BOTTOM OF THE LOUVER 10'-0" ABOVE FINISHED FLOOR.
3. INSTALL THE BOTTOM OF THE EXHAUST FAN 13'-0" ABOVE FINISHED FLOOR.
4. TERMINATE 1" CONDENSATE PIPING OVER CONCRETE SPLASH BLOCK.
5. SIZE REFRIGERANT PIPING AS PER MANUFACTURER'S RECOMMENDATIONS.
6. DO NOT RUN PIPING OVER ELECTRICAL EQUIPMENT.
7. CONDENSING UNIT SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS AND REQUIRED CLEARANCES.
8. MOUNT ON 4" THICK CONCRETE PAD AND PROVIDE 4"Ø CONCRETE BOLLARDS.
9. PROVIDE (2) 1-1/4"C. - 4#4, #6 GND; 6#6, #6 GND. EXTEND CONDUITS AND CONDUCTORS TO ELECTRIC ROOM. SEE DRAWING E401 AND DRAWING E601. 1 CONDUIT FOR (2) LIGHTING CIRCUITS; 1 CONDUIT FOR (2) RECEPTACLE CIRCUITS & (1) MINI-SPLIT CIRCUIT.
10. PROVIDE 16"x16"x8" PULL BOX. INCLUDE SUPPORT HARDWARE AND FASTENERS. PULL BOX SHALL BE LOCATED ABOVE NEW WALL OPENING. REFER TO DRAWING A301. LABEL ALL CONDUCTORS.
11. PROVIDE 3/4"C. 2#10, #10 GND.
12. PROVIDE BACK BOX FOR 20A, 120V TWIST-LOCK SINGLE RECEPTACLE. (TYPICAL)
13. PROVIDE 20A, 120V TWIST-LOCK PLUG WITH CORD. COORDINATE LENGTH WITH VENDOR CORD SET OPTIONS. (TYPICAL)
14. PROVIDE 1-1/2"C. 4#4, 6#6, #6 GND. (1) LIGHTING CIRCUIT, (2) RECEPTACLES CIRCUITS & (1) MINI-SPLIT CIRCUIT.
15. PROVIDE 1-1/4"C. 6#6, #6 GND. (2) RECEPTACLES CIRCUITS & (1) MINI-SPLIT CIRCUIT.



ENLARGED PLAN-HVAC-MECH & ELEC

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



16. PROVIDE 6"x6"x6" PULL BOX. LABEL ALL CONDUCTORS.
17. PROVIDE 3/4"C. 2#12, #12 GND TO SERVE RECEPTACLES IN OFFICE. #6 BRANCH CONDUCTOR.
18. PROVIDE 3/4"C. 2#6, #6 GND TO CONDENSING UNIT DISCONNECT. EXTEND TO PANELBOARD IN ELECTRICAL ROOM.
19. PROVIDE 1"C. 2#12, #12 GND. PROVIDE 1"C. 3#4, #6 GND. MAKE FINAL CONNECTIONS.
20. PROVIDE 1" 3#6, #6 GND. MAKE FINAL CONNECTIONS TO EXHAUST FAN MOTOR.
21. PROVIDE 3/4"C. 2#14, #14 GND WITH 1/2" REDUCER TO CONNECT TO THERMOSTAT.
22. PROVIDE 3/4"C. 2#8, #8 GND. EXTEND TO LIGHTING CONTACTOR IN ELECTRICAL ROOM.
23. SWITCH TO SERVE NEAR SIDE HIGH BAY LIGHTING.
24. SWITCH TO SERVE FAR SIDE HIGH BAY LIGHTING.
25. SERVE EMERGENCY UNIT FROM UNSWITCHED LIGHTING BRANCH-CIRCUIT SERVING THIS SPACE.
26. PROVIDE 3/4"C. 2#12, #12 GND.
27. PROVIDE 3/4"C. 3#10, #10 GND.
28. PROVIDE COMBINATION STARTER WITH FUSED DISCONNECT, OVERLOADS, HOA, 208V COIL, AND RESET BUTTON. FUSE PER MANUFACTURER'S RECOMMENDATIONS.
29. PROVIDE 3/4"C. 3#14, #14 GND.
30. PROVIDE A MINIMUM OF 1 PULL BOX IN PATHWAY TO ELECTRIC ROOM.



JOHNSON, MIRMIRAN & THOMPSON, INC.
40 WIGHT AVENUE
HUNT VALLEY, MARYLAND 21030-2059
410.372.4817
WWW.JMTARCHITECTURE.COM



SEAL:



PROJECT:

NEWARK
WAREHOUSE #2
EXPANSION

406 PHILLIPS AVENUE
NEWARK, DE 19711

PREPARED FOR:

CITY OF NEWARK,
DELAWARE

PROJECT NO: 20-03026-029

DATE: 7/25/2024

SCALE: As indicated

DESIGNED BY: CLJ

DRAWN BY: CJB/KDR

CHECKED BY: .

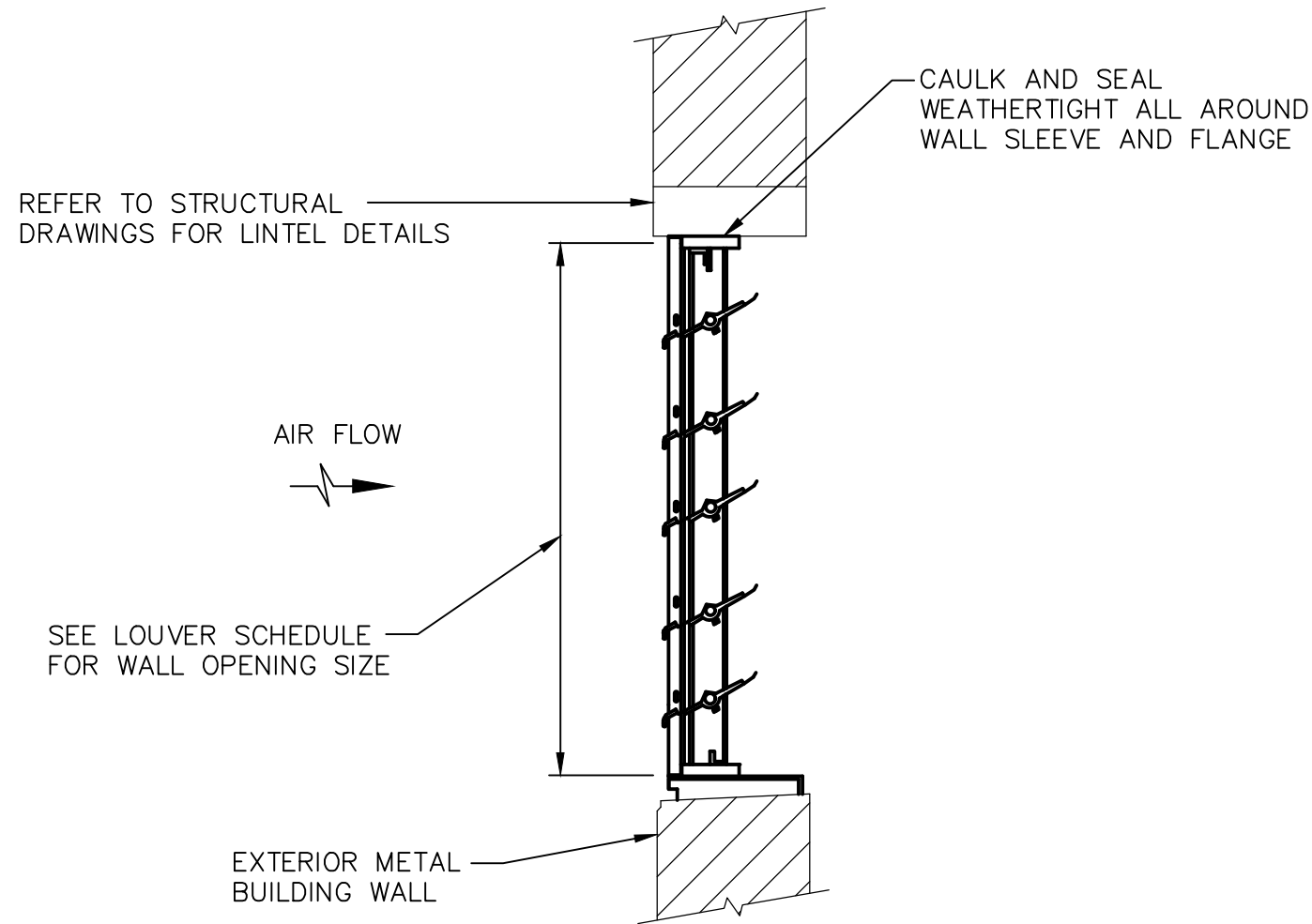
DRAWING TITLE:

FLOOR PLAN-HVAC,
POWER & LIGHTING-
MECH & ELEC

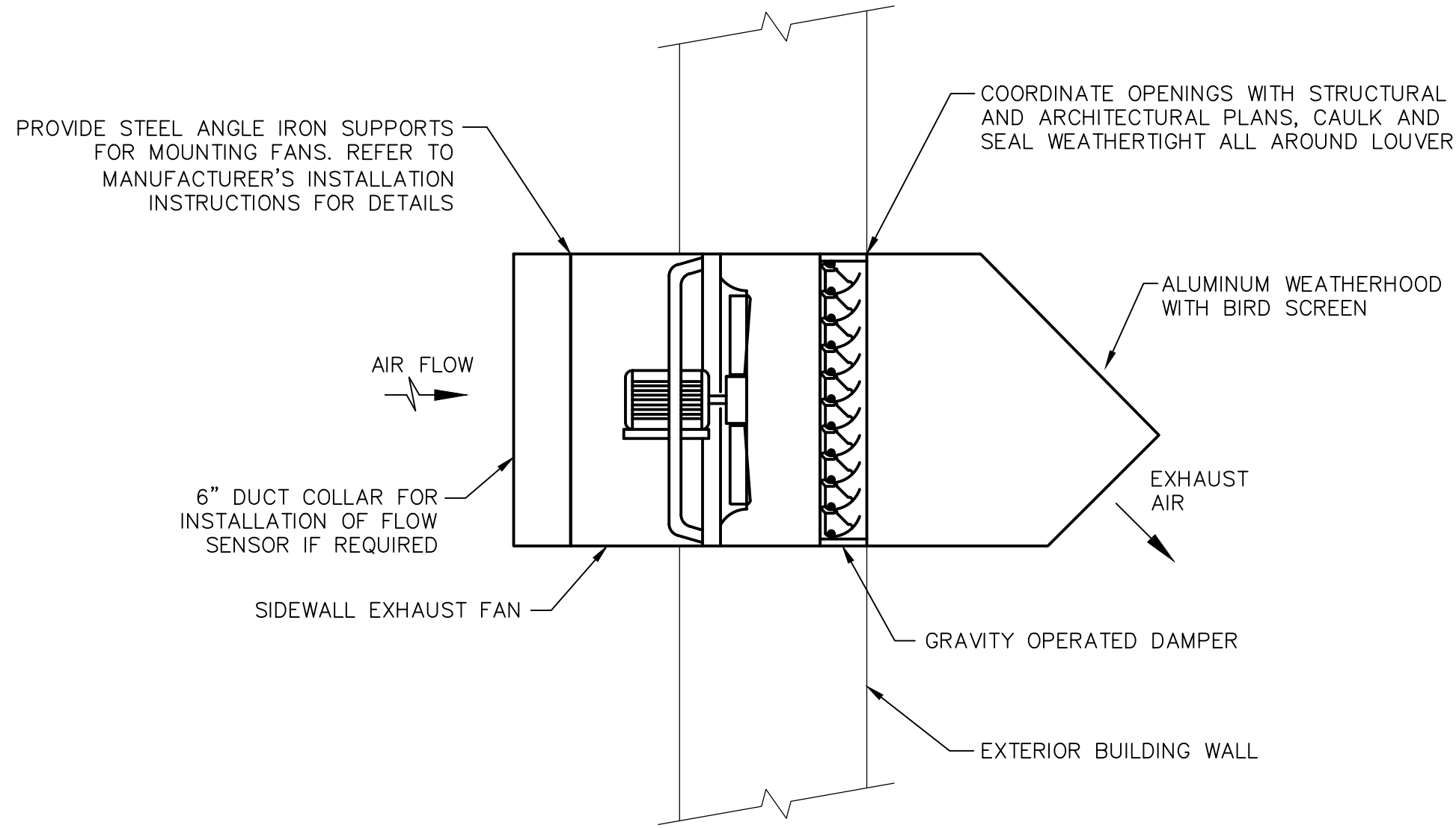
SHEET NUMBER:

ME101

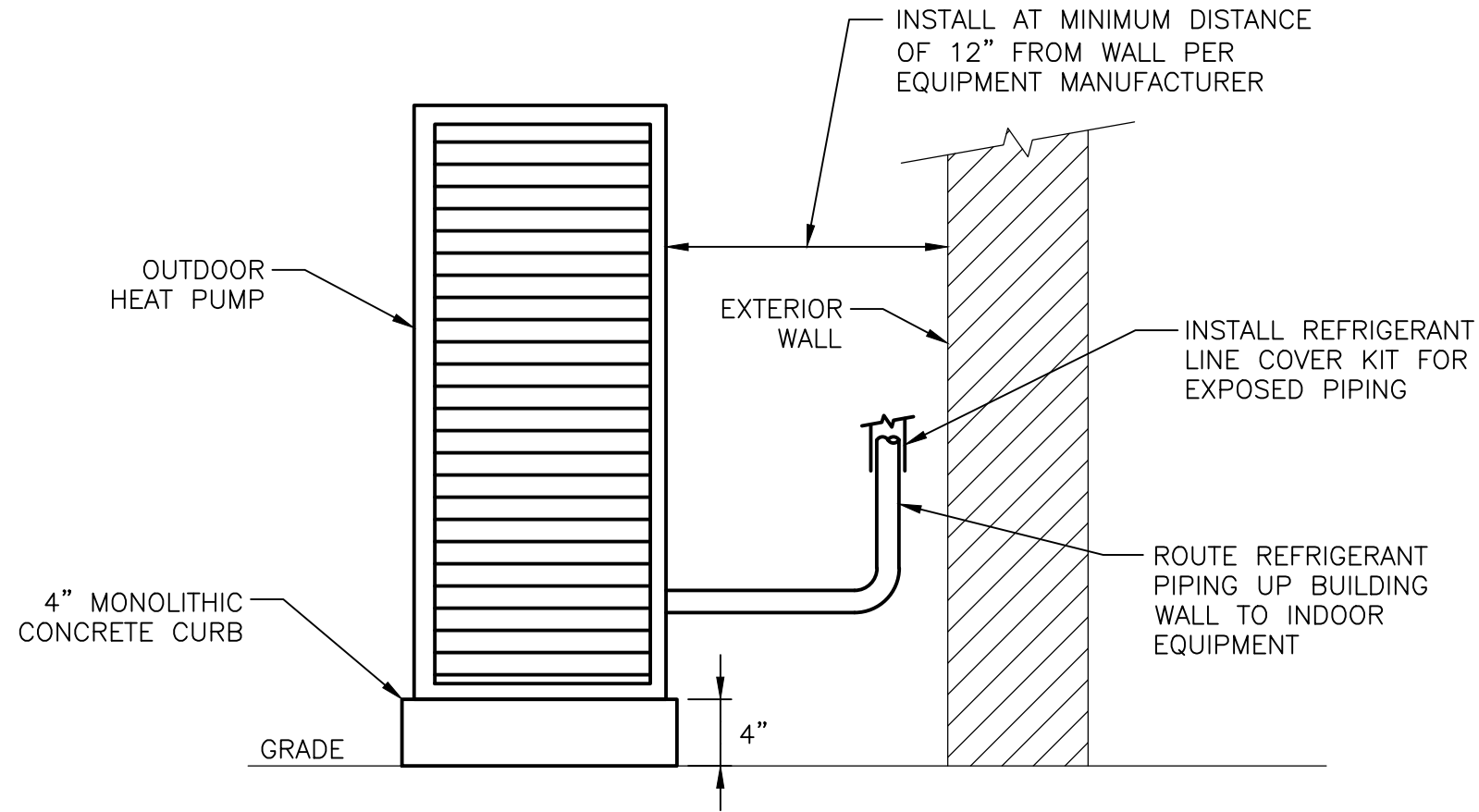
2/1/2024 3:07:09 PM



GRAVITY OPERATED WALL LOUVER DETAIL
NOT TO SCALE



WALL MOUNTED EXHAUST FAN DETAIL
NOT TO SCALE



PAD MOUNTED HEAT PUMP DETAIL
NOT TO SCALE



EXHAUST FAN CONTROL SCHEMATIC (TYP.)
NOT TO SCALE

A. GENERAL

1. AS SPACE TEMPERATURE RISES ABOVE SETPOINT OF 80 DEGREES F (ADJ.), AS SENSED AT THE LINE VOLTAGE WALL MOUNTED THERMOSTAT, EXHAUST FAN SHALL START.
2. UPON A DROP IN TEMPERATURE BELOW SETPOINT FAN SHALL BE DE-ENERGIZED.

JMT
ARCHITECTURE
JOHNSON, MIRMIRAN & THOMPSON, INC.
40 WIGHT AVENUE
HUNT VALLEY, MARYLAND 21030-2059
410.372.4817
WWW.JMTARCHITECTURE.COM

LEWES, DELAWARE
(302) 291-9090
KEGI.NET
Keystone
ENGINEERING GROUP

SEAL:



PROJECT:

**NEWARK
WAREHOUSE #2
EXPANSION**

406 PHILLIPS AVENUE
NEWARK, DE 19711

PREPARED FOR:

**CITY OF NEWARK,
DELAWARE**

PROJECT NO: 20-03026-029

DATE: 7/25/2024

SCALE: As indicated

DESIGNED BY: CLJ

DRAWN BY: CJB/KDR

CHECKED BY: .

DRAWING TITLE:

**DETAILS-HVAC-
MECHANICAL**

SHEET NUMBER:

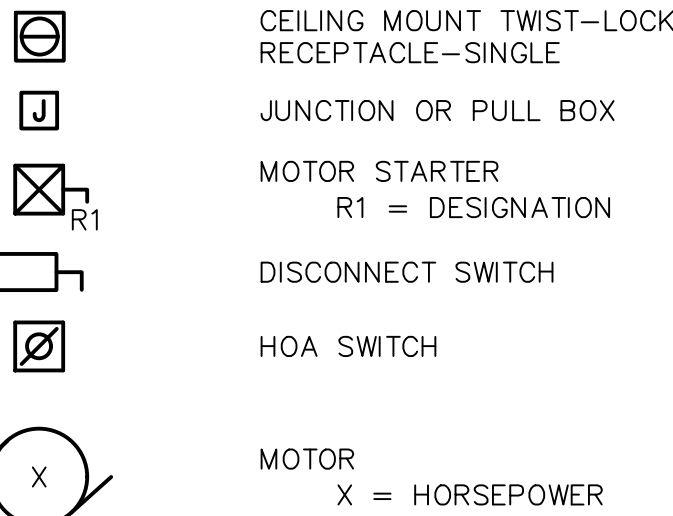
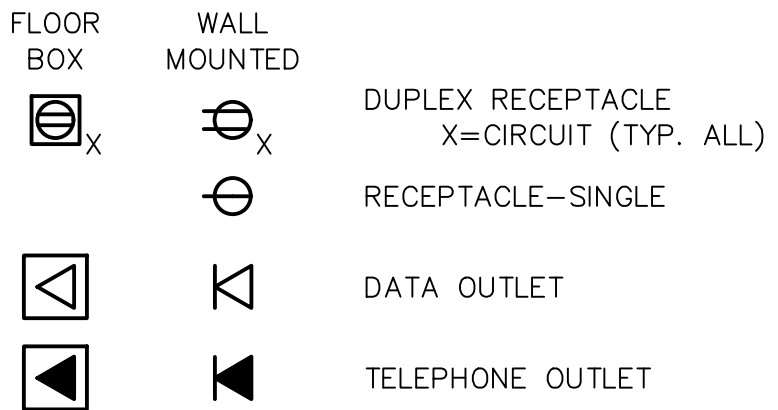
M501

F
E
D
C
B
A

2/1/2024 3:07:09 PM

POWER SYMBOLS

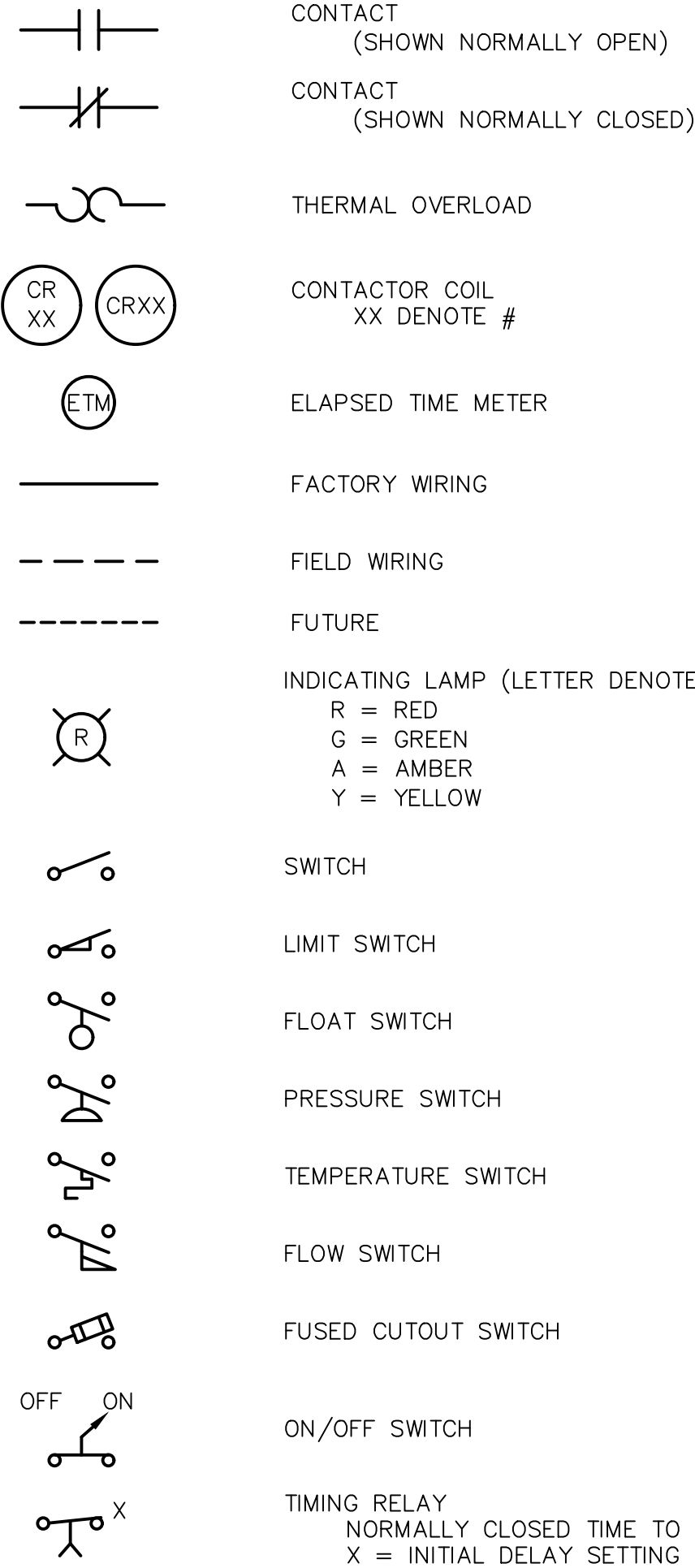
RECEPTACLES MOUNTED 36" AFF UNLESS OTHERWISE NOTED



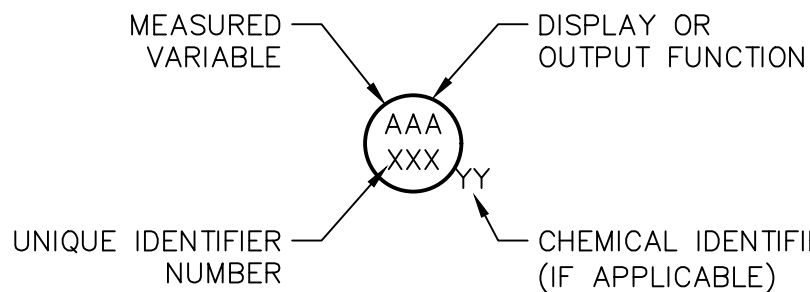
ABBREVIATIONS

3P	3 POLE
3R	NEMA 3R
4X	NEMA 4X
A	AMP
AC	ALTERNATING CURRENT
AF	AMP FRAME
AFF	ABOVE FINISHED FLOOR
AT	AMP TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BLDG	BUILDING
CKT	CIRCUIT
CMD	COMMAND
CP	CONTROL PANEL
DIA	DIAMETER
DIV	DIVISION
DS	DISCONNECT SWITCH
EUH	ELECTRIC UNIT HEATER
EXP	EXPLOSION PROOF (NEMA 8)
FDBK	FEEDBACK
FVNR	FULL VOLTAGE NON REVERSING
FVR	FULL VOLTAGE REVERSING
GFI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
HOA	HAND-OFF-AUTOMATIC
HP	HORSE POWER
HVAC	HEAT-VENT-AIR CONDITIONING
JB	JUNCTION BOX
KA	KILOAMPERE
KCMIL	1000 CIRCULAR MILS
KV	KILOVOLT
KVA	KILOVOLT AMPERE
KW	KILOWATT
LTS	LIGHTING
MAX	MAXIMUM
MC	MANUFACTURER'S CABLE
MCC	MOTOR CONTROL CENTER
MCP	MOTOR CIRCUIT PROTECTOR
MFR	MANUFACTURER
MIN	MINIMUM
MS	MOTOR STARTER
N	NEUTRAL
N/A	NOT APPLICABLE
N.C.	NORMALLY CLOSED
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
N.O.	NORMALLY OPEN
No.	NUMBER
φ	PHASE
PH.	PHASE
PNL	PANEL
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
QTY	QUANTITY
RGS	RIGID GALVANIZED STEEL
RVSS	REDUCED VOLTAGE SOLID STATE
SP	SPARE
SS	STAINLESS STEEL
STP	SHIELDED TWISTED PAIR
TYP.	TYPICAL
TVSS	TRANSIENT VOLTAGE SURGE SUPRESSION
U.O.N.	UNLESS OTHERWISE NOTED
V	VOLT
VAC	VOLTS ALTERNATING CIRCUIT
VFD	VARIABLE FREQUENCY DRIVE
W	WIRE
WPIU	WEATHERPROOF IN-USE
WR	WEATHER RESISTANT
XFMR	TRANSFORMER

SCHEMATIC DIAGRAM SYMBOLS

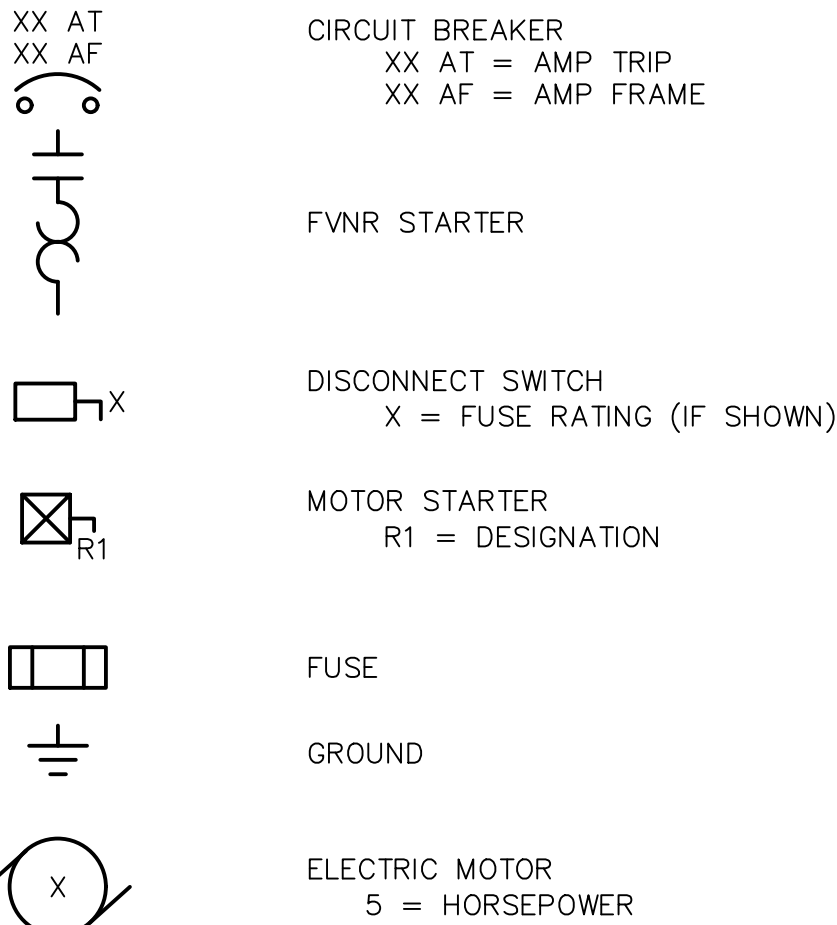


INSTRUMENT SYMBOL DECODER

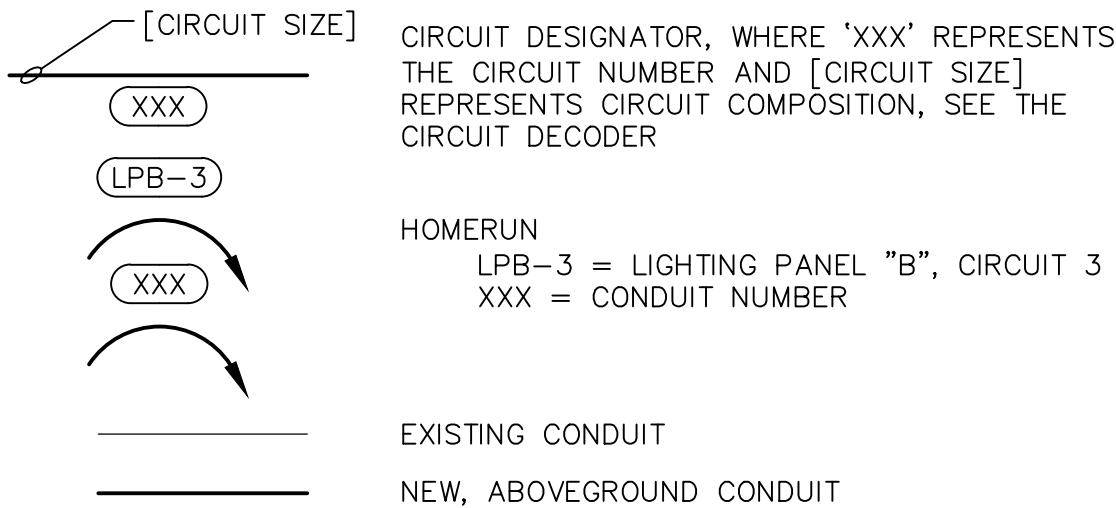


FIRST LETTER 'A'	SUCCEEDING LETTERS 'B'
MEASURED VARIABLE	DISPLAY OR OUTPUT FUNCTION
A ANALYZER	ALARM
B BURNER	CONTROL
C -	DIFFERENTIAL
D DIFFERENTIAL	PRIMARY ELEMENT
E VOLTAGE	-
F FLOW RATE	GLASS
G -	HIGH
H HAND	INDICATE
I CURRENT	SCAN
J POWER	CONTROL STATION
K TIME	LOW/LIGHT
L LEVEL	MIDDLE
M MALFUNCTION	-
N TURBIDITY	ORIFICE
O -	PRESSURE
P PRESSURE	QUANTITY
Q QUANTITY	INTEGRATE/TOTALIZE
R REMOTE	RECORD/PRINT
S SPEED/FREQUENCY	SWITCH
T TEMPERATURE	TRANSMIT
U MULTIVARIABLE	MULTIFUNCTION
V VIBRATION	VALVE
W WEIGHT	RELAY
X LIMIT	COMPUTING OR SIGNAL CONVERTING
Y STATUS	DRIVE/ACTUATE
Z POSITION	-

SINGLE LINE SYMBOLS



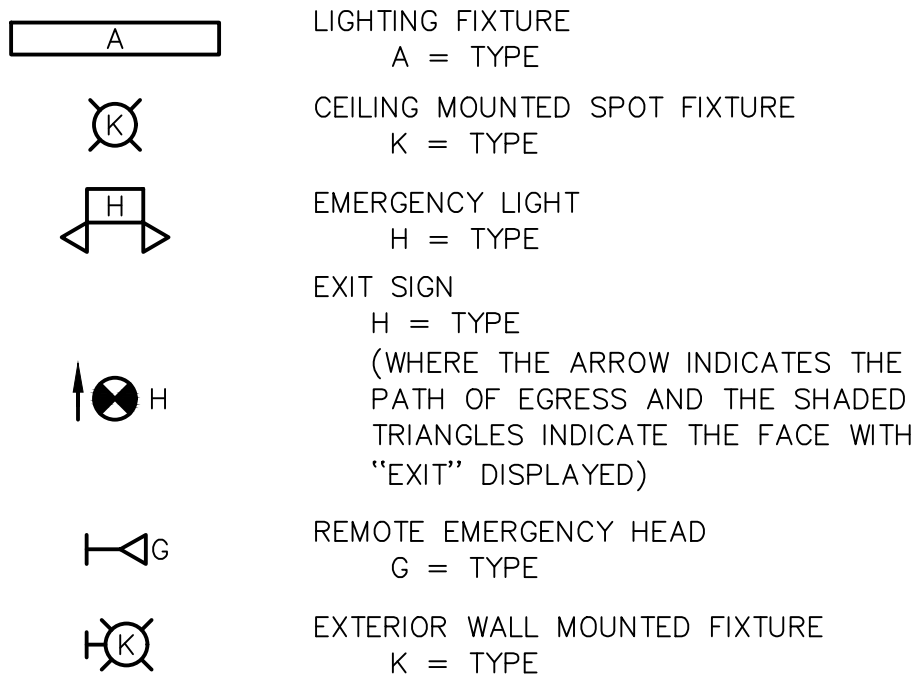
CIRCUITING AND RACEWAY SYMBOLS



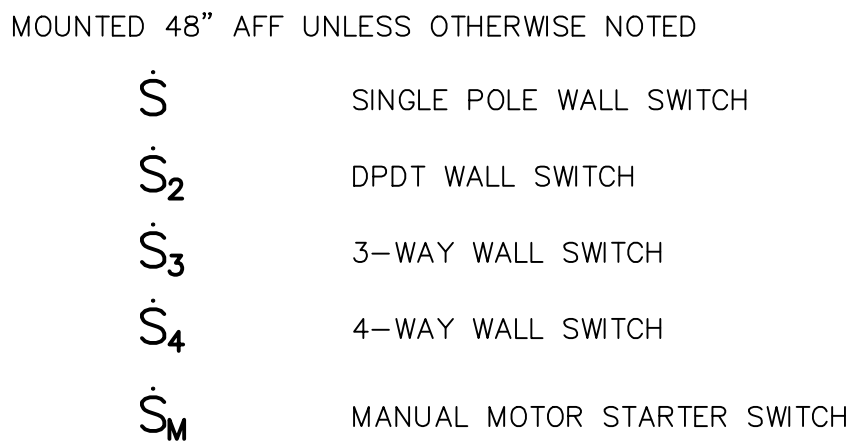
CIRCUIT DECODER

3/4"C. 4#12, #12 GND	THREE #12 PHASE & A #12 NEUTRAL CONDUCTORS WITH A #12 GROUND IN A 3/4" CONDUIT
(4) 4"C. 3#350, #350N, #4/0 GND EA	FOUR 4" CONDUITS WITH PARALLEL SETS OF THREE 350 KCMIL PHASE CONDUCTORS, A 350 KCMIL NEUTRAL CONDUCTOR AND A #4/0 AWG GROUND IN EACH
(2) TC 3#500, #1 GND & #1/0 GND	TWO TRAY CABLES, 3#500 KCMIL PHASE AND #1 GND WITH A SUPPLEMENTAL #1/0 GND RUN ALONG WITH THE CABLES IN THE TRAY
1"C. 5#18 STP	1" CONDUIT WITH FIVE SHIELDED TWISTED PAIR CABLES
1"C. (1) 12-FOC	1" CONDUIT WITH ONE 12 STRAND FIBER OPTIC CABLE
1"C. (1) 8PR#16	1" CONDUIT WITH ONE 8 PAIR UNSHIELDED TWISTED PAIR CABLES
2"C. (2) 4PR#18 STP	2" CONDUIT WITH TWO 4 PAIR SHIELDED TWISTED PAIR CABLES

LIGHTING SYMBOLS



SWITCHING SYMBOLS



GENERAL NOTES:

- ALL ELECTRICAL EQUIPMENT AND INSTALLATIONS SHALL CONFORM WITH THE REQUIREMENTS OF LATEST APPLICABLE VERSION OF THE INTERNATIONAL BUILDING CODE (IBC) AND NATIONAL ELECTRICAL CODE (NFPA 70) AS ADOPTED BY THE AHJ (AUTHORITY HAVING JURISDICTION), AND UNDERWRITER'S LABORATORIES (UL) REQUIREMENTS.
- ALL WORK SHALL BE INSTALLED IN A NEAT AND WORKMAN LIKE MANNER. REFER TO NECA 1 - GOOD WORKMANSHIP IN ELECTRICAL CONSTRUCTION AND OTHER APPLICABLE NECA STANDARDS. CONDUIT PLANS ARE DIAGRAMMATIC IN NATURE AND NOT INTENDED TO SHOW ALL TURNS, BENDS, FITTINGS, AND SPECIAL INTRICACIES. THIS DOES NOT LIMIT CONTRACTOR'S LIABILITY FOR THE INSTALLATION OF A SOUND AND COMPLETE SYSTEM THAT COMPLIES WITH THE NEC AND LOCAL CODES AND REGULATIONS.
- PRIOR TO PURCHASING ANY MATERIALS OR COMMENCING WORK, CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, CONDUIT SIZES AND LOCATIONS, EQUIPMENT, ETC. SHOWN ON THE DRAWINGS OR AFFECTING THIS WORK AND SHALL REPORT ANY DEVIATIONS TO THE ENGINEER.
- COORDINATE ALL WORK WITH STRUCTURAL, MECHANICAL, AND OTHER CRAFTS AS REQUIRED. CONTRACTOR SHALL BECOME FAMILIAR WITH ALL WORK SHOWN ON OTHER DRAWINGS FOR VARIOUS ASPECTS OF THIS PROJECT AND COORDINATE ACCORDINGLY.
- PROVIDE ALL LABOR, MATERIAL, AND EQUIPMENT COMPLETELY TO PROVIDE FULLY OPERATIONAL SYSTEMS.
- ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- WHERE CONDUIT SIZE AND FILL IS NOT DEFINED ON THE SINGLE LINE OR INTERCONNECTION DIAGRAM, PROVIDE 3/4" CONDUIT WITH 2 #12 AWG AND #12 AWG GROUND CONDUCTORS FOR SINGLE PHASE AND 3/4" CONDUIT WITH 3#12 AWG AND #12 AWG GROUND CONDUCTOR FOR 3 PHASE.
- ALL 120V OR GREATER WIRING FOR DEDICATED OR MULTIPLE CIRCUITS IN THE SAME RACEWAY SHALL INCLUDE AN EQUIPMENT GROUNDING CONDUCTOR.

MECHANICAL/PLUMBING COORDINATION:

- CONTRACTOR SHALL COORDINATE CHARACTERISTICS AND REQUIREMENTS OF ALL MECHANICAL AND PLUMBING EQUIPMENT WITH ELECTRICAL DRAWINGS PRIOR TO ORDERING OR INSTALLING EQUIPMENT. CONTRACTOR SHALL FURNISH EQUIPMENT COMPATIBLE FOR THE VOLTAGES SHOWN ON THE MECHANICAL/PLUMBING DRAWINGS.
- ALL MECHANICAL AND PLUMBING EQUIPMENT REQUIRING ELECTRICAL POWER SHALL BE INSTALLED WITH DISCONNECT SWITCHES AT EACH PIECE OF EQUIPMENT. COORDINATE SWITCH TYPE (FUSED OR NON-FUSED) WITH EQUIPMENT CHARACTERISTICS, MANUFACTURER'S RECOMMENDATIONS, AND THE MECHANICAL/PLUMBING DRAWINGS.

GENERAL NOTES:

- REFER TO DRAWING ME101 FOR ELECTRICAL POWER & LIGHTING PLAN.
- REFER TO DRAWING A001 FOR OVERALL FLOOR PLAN.



JOHNSON, MIRMIRAN & THOMPSON, INC.
40 WIGHT AVENUE
HUNT VALLEY, MARYLAND 21030-2059
410.372.4817
WWW.JMTARCHITECTURE.COM



SEAL:



PROJECT:

NEWARK
WAREHOUSE #2
EXPANSION

406 PHILLIPS AVENUE
NEWARK, DE 19711

PREPARED FOR:

CITY OF NEWARK,
DELAWARE

PROJECT NO: 20-03026-029

DATE: 7/25/2024

SCALE: As indicated

DESIGNED BY: CLJ

DRAWN BY: CJB/KDR

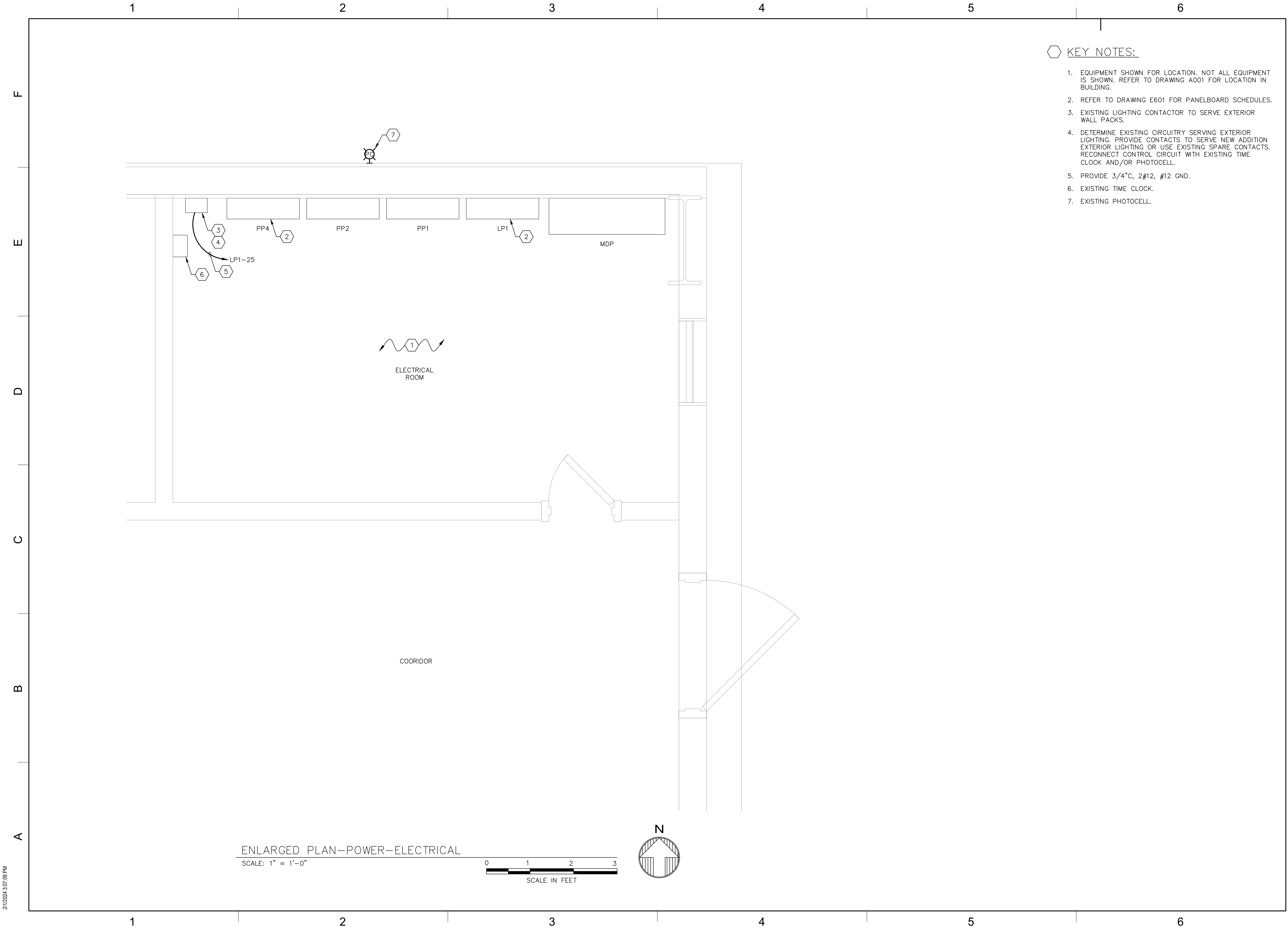
CHECKED BY: .

DRAWING TITLE:

LEGEND-ELECTRICAL

SHEET NUMBER:

E001



- KEY NOTES:
- EQUIPMENT SHOWN FOR LOCATION. NOT ALL EQUIPMENT IS SHOWN. REFER TO DRAWING A001 FOR LOCATION IN BUILDING.
 - REFER TO DRAWING E601 FOR PANELBOARD SCHEDULES.
 - EXISTING LIGHTING CONTACTOR TO SERVE EXTERIOR WALL PACKS.
 - DETERMINE EXISTING CIRCUITRY SERVING EXTERIOR LIGHTING. PROVIDE CONTACTS TO SERVE NEW ADDITION EXTERIOR LIGHTING OR USE EXISTING SPARE CONTACTS. RECONNECT CONTROL CIRCUIT WITH EXISTING TIME CLOCK AND/OR PHOTOCELL.
 - PROVIDE 3/4"C, 2#12, #12 GND.
 - EXISTING TIME CLOCK.
 - EXISTING PHOTOCELL.

JMT
ARCHITECTURE
JOHNSON, MIRMIRAN & THOMPSON, INC.
40 WIGHT AVENUE
HUNT VALLEY, MARYLAND 21030-2059
410.372.4817
WWW.JMTARCHITECTURE.COM

LEWES, DELAWARE
(302) 291-9090
KEGI.NET
Keystone
ENGINEERING GROUP

SEAL:



PROJECT:

**NEWARK
WAREHOUSE #2
EXPANSION**

406 PHILLIPS AVENUE
NEWARK, DE 19711

PREPARED FOR:

CITY OF NEWARK,
DELAWARE

PROJECT NO: 20-03026-029

DATE: 7/25/2024

SCALE: As indicated

DESIGNED BY: CLJ

DRAWN BY: CJB/KDR

CHECKED BY: .

DRAWING TITLE:

**ENLARGED PLAN-
POWER-ELECTRICAL**

SHEET NUMBER:

E401

F
E
D
C
B
A

PANELBOARD: PP4										
VOLTS: 208Y/120			MOUNTING: SURFACE			A.I.C. RATING: ---				
PHASE/WIRE: 3 PHASE, 4 WIRE			ENCLOSURE: TYPE 1			MAINS TYPE: MAIN LUG ONLY (MLO)				
SERVED BY: DISTRIBUTION PANELBOAF			EQUIPMENT: ---			MAINS RATING: 250A				
						MCB RATING: ---				
ROOM DESIGNATION: ELECTRIC ROOM										
LOCATION: WAREHOUSE #3										
EXISTING										
CKT NO.	CKT. P	BKR. TRIP	CIRCUIT DESCRIPTION	KVAPER PHASE			CIRCUIT DESCRIPTION	CKT. BKR.	TRIP P	NO.
				A	B	C				
1	2	25A	HEAT PUMP WAREHOUSE OFFICE	---	---		HEAT PUMP WOOD SHOP	30A	2	4
3										2
5	2	30A	HEAT PUMP WORK SHOP				HEAT PUMP ST REETS ST ANDBY	25A	2	6
7				---	---					8
9	2	30A	HEAT PUMP ELECT ST DBY				HEAT PUMP ELEC STORAGE	30A	2	10
11										12
13	2	30A	HEAT PUMP WATER METER RM	---	---		VEEDER-ROOT TLS 350	20A	1	14
15							SPARE	20A	1	16
17	2	25A	HEAT PUMP WATER ST ANDBY				SPARE	20A	1	18
19				---	---		SPARE	20A	1	20
21	1	20A	BB HEAT - BATH - SPRINKLER				SPARE	20A	1	22
23	1	20A	SPARE				DRYER - WATER DEPT	30A	2	24
25	1	20A	SERVER REC THIS ROOM	---	---					26
27	1	20A	SERVER REC THIS ROOM				EXHAUST FAN #1 & #2 (EF-1, EF-2)			28
29	1	20A	UPS REC THIS ROOM				(NOTE #3)	20A	3	30
31	1	20A	RCPT - OFFICE 201 (NOTE 2)	---	2.10					32
33										34
35	2	15A	HEAT PUMP - OFFICE 201 (NOTE 3)		1.14	2.10	EXHAUST FAN #3 & #4 (EF-3, EF-4)			36
37	---	---	SPACE	---	2.10		(NOTE #3)	20A	3	38
39	---	---	SPACE				SPACE	---	---	40
41	---	---	SPACE				SPACE	---	---	42
NOTES:										
1. PANELBOARD SCHEDULE BASED ON FIELD OBSERVATIONS. BRANCH CIRCUITS HAVE NOT BEEN VERIFIED.										
2. USE EXISTING CIRCUIT BREAKER TO SERVE DESIGNATED EQUIPMENT.										
3. PROVIDE NEW CIRCUIT BREAKER TO SERVE DESIGNATED EQUIPMENT.										
4. NEW WORK INDICATED BY [BOLD] TEXT.										

PANELBOARD: LP1										
VOLTS: 208Y/120			MOUNTING: SURFACE			A.I.C. RATING: 10K				
PHASE/WIRE: 3 PHASE, 4 WIRE			ENCLOSURE: TYPE 1			MAINS TYPE: MAIN LUG ONLY (MLO)				
SERVED BY: DIST RIBUTION PANELBOAF			EQUIPMENT: ---			MAINS RATING: 250A				
						MCB RATING: ---				
ROOM DESIGNATION: ELECTRIC ROOM										
LOCATION: WAREHOUSE #3										
EXISTING										
CKT NO.	CKT. BKR. P	TRIP	CIRCUIT DESCRIPTION	KVAPER PHASE			CIRCUIT DESCRIPTION	CKT. BKR. TRIP	P	CKT NO.
1	1	20A	LIGHT S ELEC RM, SPRINKLER, BATHS	---	---		LIGHT S TRAINING RM	20A	1	2
3	1	20A	LIGHT S ELEC DEPT , STREET S DEPT		---	---	LIGHT S WATER DEPT , STORAGE	20A	1	4
5	1	20A	LIGHT S WATER METER, ELEC ST DBY			---	LIGHT S WAREHOUSE	20A	1	6
7	1	20A	LIGHT S STREET S DEPT , STORAGE	---	---		LIGHT S WAREHOUSE	20A	1	8
9	1	20A	SPOARE		---	---	LIGHT S STREET S ST DBY, WORK SHOP	20A	1	10
11	1	20A	LIGHT S VEHICLE BAY, WOOD SHOP			---	LIGHT S WATER DEPT	20A	1	12
13	1	20A	LIGHT S WATER DEPT , VEHICLE BAY	---	---		SPARE	20A	1	14
15	1	20A	ICE MACHINE		---	---	SPARE	20A	1	16
17	1	20A	WALL PACKS			---	SPARE	20A	1	18
19	1	20A	WALL PACKS	---	---		SPARE	20A	1	20
21	1	20A	TIME CLOCK		---	---	GATE CONTROL	20A	1	22
23	1	20A	LTG - WHSE ADD. - HIGH BAY			---	GENERATOR BLOCK	20A	1	24
25	1	20A	LTG - WHSE ADD. - HIGH BAY&OFF.	---	---		ENTRANCE			26
27	1	20A	LTG -WHSE ADD. WALL PACKS		---	---	GATE	15A	1	28
29	---	---	SPACE			---	OPERATOR			30
31	---	---	SPACE	---	---		SPACE	---	---	32
33	---	---	SPACE		---	---	SPACE	---	---	34
35	---	---	SPACE			---	SPACE	---	---	36
37	---	---	SPACE	---	---		SPACE	---	---	38
39	---	---	SPACE		---	---	SPACE	---	---	40
41	---	---	SPACE			---	SPACE	---	---	42
NOTES:										
1. PANELBOARD SCHEDULE BASED ON FIELD OBSERVATIONS. BRANCH CIRCUITS HAVE NOT BEEN VERIFIED.										
2. USE EXISTING CIRCUIT BREAKER IN POSITION #23 TO SERVE DESIGNATED EQUIPMENT.										
3. PROVIDE NEW CIRCUIT BREAKER IN POSITIONS #25 AND #27 TO SERVE DESIGNATED EQUIPMENT.										
4. NEW WORK INDICATED BY [BOLD] TEXT.										

LUMINAIRE SCHEDULE														
TYPE	DESCRIPTION	BASIS OF DESIGN		ACCEPTABLE	LIGHT SOURCE	LIGHT SOURCE PERFORMANCE			DRIVER CHARACTERISTICS	INPUT VOLTAGE	INPUT WATTS	MOUNTING	FINISH	COMMENTS
		MANUFACTURER	SERIES	MANUFACTURERS		LUMENS	CCT	CRI						
A	LED HIGH BAY CHAIN SUSPENDED LIGHTING FIXTURE. EXTRUDED ALUMINUM FRAME WITH GLARE CONTROL ACRYLIC LENS. STANDARD EFFICIENCY, WIDE DISTRIBUTION, CORD SET WITH TWIST-LOCK PLUG.	LITHONIA	OPHB	COLUMBIA HUBBELL	LED	24,000	4000	70	CONSTANT	120	174	CHAIN	WHITE	NOTE 1,7
B	2X4' LAY-IN LED FOR SUSPENDED ACOUSTICAL CEILINGS. ALUMINUM FRAME WITH SATIN WHITE LENS. FIELD ADJUSTABLE LUMEN OUTPUT AND COLOR TEMPERATURES.	LITHONIA	CPANL	COLUMBIA HUBBELL	LED	4,000	4000	70	CONSTANT	120	40	RECESSED - SUSPENDED CEILING	WHITE	NOTE 2,3
C	LED WALL PACK CONSTRUCTED FROM DIE-CAST ALUMINUM HOUSING FOR IMPACT RESISTANT CONSTRUCTION. GLASS LENS.	LITHONIA	TWH	COLUMBIA HUBBELL	LED	9,214	4000	70	CONSTANT	120	78	WALL	DARK BRONZE	NOTE 4
E	EMERGENCY LIGHTING UNIT CONSTRUCTED POLYCARBONATE HOUSING. POLYCARBONATE LENS. BATTERY BACK-UP WITH SELF DIAGNOSTICS.	LITHONIA	ELM4	DUAL-LITE HUBBELL	LED	640	---	---	---	120	3.15	SURFACE	WHITE	NOTE 5
X	EMERGNCEY COMBINATION EXIT AND LIGHTING UNIT. THERMOPLASTIC HOUSING WITH UNIVERSAL FACE AND RED LETTERING. TWO LED HEADS FOR EMERGENCY EGRESS LIGHTING. 12 WATT CAPACITY TO SERVE REMOTE HEAD. BATTERY BACK-UP WITH TEST SWITCH AND INDICATOR LIGHTS.	LITHONIA	LHQM	RAB HUBBELL	LED	42 / HEAD	---	---	CONSTANT	120	5.1	SURFACE	WHITE	NOTE 6
X1	DUAL REMOTE EMERGENCY LED HEADS WITH LINEAR DISTRIBUTION PATTERN. DIE-CAST HOUSING RATED FOR WET LOCATION. POWDER COAT PAINT WITH UV STABLE RESIN.	LITHONIA	ELMRW	RAB HUBBELL	LED	110	---	---	CONSTANT	5-20 VDC	1.2	SURFACE	BLACK	NOTE 5
NOTES: 1. PROVIDE CHAIN TO SUSPEND LIGHTING FIXTURE. INCLUDE SAFETY CHAIN CONNECTED TO STRUCTURE. 2. PROVIDE SUPPORT FROM LIGHTING FIXTURE TO STRUCTURE. ATTACH AT A MINIMUM OF TWO POINTS TO MAINTAIN HORIZONTAL PLAIN. 3. SET INITIAL LIGHTING SETTING AT 4000 LUMENS WITH A COLOR TEMPERATURE OF 40K. ADJUST TO OWNER'S PREFERENCE. 4. PROVIDE JUNCTION BOX AT EACH LOCATION. ROUTE CONDUIT THROUGH BACK ACCESS. SEAL WALL PENETRATION FOR WATER TIGHT FIT. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT. ADJUST LIGHTING OUTPUT TO MATCH EXISTING WALL PACKS. 5. MOUNTING HEIGHT: 8'-0" AFF. 6. MOUNT 1'-0" ABOVE DOOR. 7. MOUNT 4'-0" BELOW STRUCTURE. COORDINATE CORD SET LENGTH WITH MOUNTING HEIGHT AND RECEPTACLE LOCATION.														



SEAL:



PROJECT:

NEWARK WAREHOUSE #2 EXPANSION

406 PHILLIPS AVENUE
NEWARK, DE 19711

PREPARED FOR:

CITY OF NEWARK,
DELAWARE

PROJECT NO: 20-03026-029

DATE: 7/25/2024

SCALE: As indicated

DESIGNED BY: CLJ

DRAWN BY: CJB/KDR

CHECKED BY: .

DRAWING TITLE:
SCHEDULES-
ELECTRICAL

SHEET NUMBER:

E601