NEW POLE BARN

SPRINGFIELD MASONIC COMMUNITY

2655 W. NATIONAL RD. SPRINGFIELD, OHIO 45504

ARCHITECT

App Architecture

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ELECTRICAL, MECHNICAL AND PLUMBING ENGINEERS

L2 Engineering, LLC

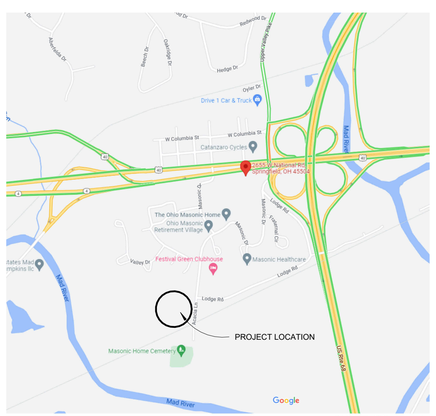
7949 Washington Woods Drive
Dayton, OH 45459
(937) 361-6731

CIVIL ENGINEER

Sands Decker CPS, LLC

1495 Old Henderson Road
Columbus, Ohio 43220
(614) 459-6992

VICINITY MAP



CODE INFORMATION (OBC 2024)

PROJECT DESCRIPTION

PROJECT CONSISTS OF THE DEVELOPMENT OF A NEW NON-CONDITIONED STORAGE SPACE WITH NON-INSULATED OVERHEAD DOOR ACCESS, AND A SEPARATED CONDITIONED WORK BAY. BUILDING WILL BE CONSTRUCTED OF WOOD POSTS/COLUMNS EXTENDING TO CONCRETE FOOTERS BELOW GRADE, WITH HORIZONTAL GIRT FRAMING AND EXTERIOR METAL PANEL SKIN. THE CONDITIONED SPACE WILL INCLUDE GLASS-FIBER INSULATION AND INTERIOR GYPSUM WALLBOARD FINISH. ROOF CONSISTS OF STRUCTURAL WOOD TRUSSES.

USE GROUP CLASSIFICATION

OBC (302) USE GROUP:
- S-1 MODERATE-HAZARD STORAGE

CONSTRUCTION TYPE CLASSIFICATION

OBC (602) CONSTRUCTION TYPE:
- 5B

HEIGHT AND AREA LIMITATIONS

BUILDING DESCRIPTION: (TABLE 504.3)
- ALLOWABLE HEIGHT: 40 FT (NON-SPRINKLED)
- PROPOSED HEIGHT: 26'-8" FT

- ALLOWABLE BUILDING AREA: 9,000 SF (5B, S-1, NON-SPRINKLED)
- PROPOSED BUILDING AREA: 7,837 SF

PROPOSED BUILDING AREA IS LESS THAN ALLOWABLE PER TABLE 506.2. ADDITIONAL BUILDING AREA BASED UPON OPEN PERIMETER HAS NOT BEEN CALCULATED.

OCCUPANT LOAD

WAREHOUSE - 1 PER 500 GROSS:	7,496 GSF/ 500 GSF =	15 OCCUPANTS
OFFICE - 1 PER 150 GROSS:	138 GSF/ 150 GSF =	1 OCCUPANT
TOTAL OCCUPANT LOAD:		16 OCCUPANTS

OTHER CODE PROVISIONS

OBC (T601) FIRE RESISTANCE RATINGS:

PRIMARY STRUCTURAL FRAME =	0 HRS
EXTERIOR BEARING WALLS =	0 HRS
INTERIOR BEARING WALLS =	0 HRS
EXTERIOR NON-LOAD BEARING WALLS =	0 HRS
INTERIOR NON-LOAD BEARING WALLS =	0 HRS
FLOOR CONSTRUCTION INCLUDING BEAMS =	0 HRS
ROOF CONSTRUCTION INCLUDING BEAMS =	0 HRS

FIRE PROTECTION

BUILDING IS NOT SPRINKLED

ADDITIONAL CODE NOTES

- SECTION 903.2.9, GROUP S-1:

  AN AUTOMATIC SPRINKLER SYSTEM SHALL BE PROVIDED THROUGHOUT ALL BUILDINGS CONTAINING A GROUP S-1 OCCUPANCY WHERE ONE OF THE FOLLOWING EXIST:

  (4) A GROUP S-1 FIRE AREA USED FOR THE STORAGE OF COMMERICAL MOTOR VEHICLES WHERE THE FIRE AREA EXCEEDS 5,000 SF.

DRAWING INDEX

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ISSUE

NO.	DATE	DESCRIPTION
	08.22.24	GC PRICING

DATE	08.22.2024
JOB NO.	4240.00
DRAWN	AJB, LJY
CHECKED	TAG

TITLE
COVER SHEET

SHEET NO.
G0.1

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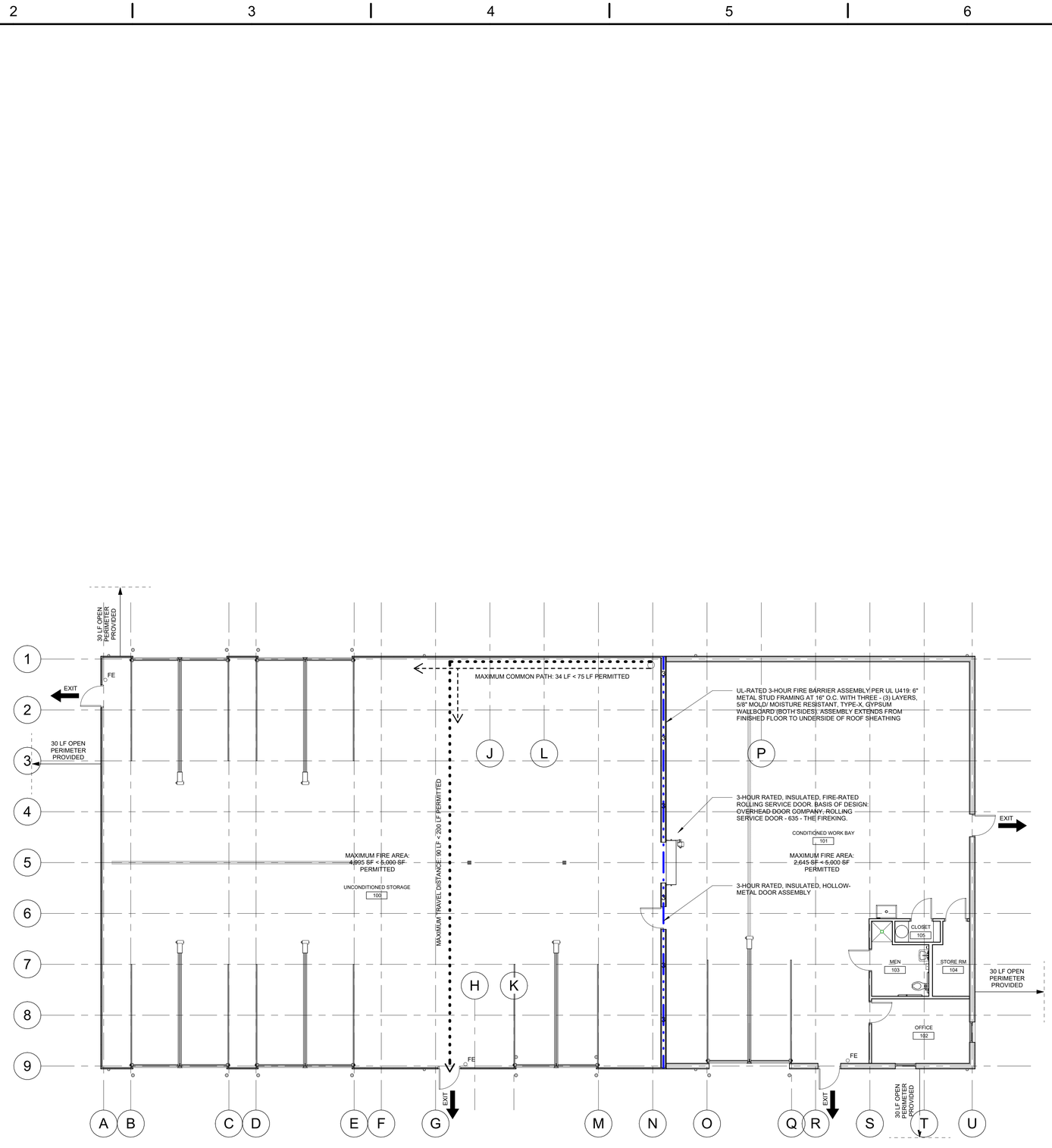

F2 LIFE SAFETY PLAN
1/8" = 1'-0"

LIFE SAFETY LEGEND

- 3-HOUR FIRE BARRIER
- EXIT TRAVEL DISTANCE ROUTE
- COMMON PATH OF TRAVEL
- EXIT — EXIT DOOR
- FE — WALL-MOUNTED FIRE EXTINGUISHER

GENERAL NOTES

A. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING STRUCTURAL WOOD TRUSSES, CROSS-BRACING, FOOTINGS AND OTHER RELATED STRUCTURAL INFORMATION.

B. REFER TO PLUMBING, ELECTRICAL, AND MECHANICAL DRAWINGS FOR ADDITIONAL ENGINEERING INFORMATION.

C. REFER TO CIVIL DRAWINGS FOR ADDITIONAL SITE AND UTILITY INFORMATION.

D. OVERHEAD DOORS SHOWN ARE BASIS OF DESIGN AND DO NOT NECESSARILY REFLECT DETAILS CONSISTENT WITH OTHER MANUFACTURERS. IT IS THE RESPONSIBLITY OF THE GENERAL CONTRACTOR TO COORDINATE INSTALLATION, IN FULL, OF ALL OVERHEAD DOOR AND COMPONENTS WITH THE BUILDING FOR A COMPLETE, WEATHERTIGHT INSTALLATION.

E. ALL ROOF PENETRATIONS SHALL BE SEALED TIGHTLY PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

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LIFE SAFETY

SHEET NO.
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ABBREVIATIONS

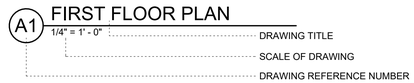
SYMBOL	
@	AT
&	AND
∠	ANGLE
Ø	DIAMETER
℄	CENTER LINE
℞	PLATE
A	
ABV	ABOVE
A/C	AIR CONDITIONING
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLER UNIT
AL	ALUMINUM
ALT	ALTERNATE
ANOD	ANODIZED
ANCH	ANCHOR
APPROX	APPROXIMATELY
ARCH	ARCHITECT OR ARCHITECTURAL
ATTEN	ATTENUATED
AUTO	AUTOMATIC
AVG	AVERAGE
B	
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BOT	BOTTOM
BRG	BEARING
BSMT	BASEMENT
C	
CAB	CABINET
CB	CATCH BASIN
C/C	CENTER TO CENTER
CF	CUBIC FOOT
CFCI	CONTRACTOR FURNISH, CONTRACTOR INSTALL
CFOI	CONTRACTOR FURNISH, OWNER INSTALL
CG	CORNER GUARD
CJ	CONTROL JOINT
CLG	CEILING
CL	CLOSET
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT
COL	COLUMN
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS OR CONTINUE
CPU	CENTRAL PROCESSING UNIT (COMPUTER)
CY	CUBIC YARD
D	
DBL	DOUBLE
DEMO	DEMOLISH, DEMOLITION
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIM	DIMENSION
DISP	DISPENSER
DIV	DIVISION
DS	DOWNSPOUT
DWG	DRAWING
DTL	DETAIL
E	
EA	EACH
EC	ELECTRICAL CONTRACTOR
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM
EJ	EXPANSION JOINT
ELEC	ELECTRIC OR ELECTRICAL
ELEV	ELEVATION OR ELEVATOR
EMERG	EMERGENCY
EQ	EQUAL
EQUIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EXIST OR EX	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
F	
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISH FLOOR
FIN	FINISH OR FINISHED
FLR	FLOOR
FND	FOUNDATION
FRT	FIRE RETARDANT TREATED WOOD
FT	FOOT OR FEET OR FULLY TEMPERED
FTG	FOOTING
FUR	FURRING
FV	FIELD VERIFY
FOW	FACE OF WALL

G	
GA	GAUGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GD	GRADE OR GRADING
GEN	GENERAL
GL	GLASS OR GLAZING
GND	GROUND
GYP	GYPSUM
GWB	GYPSUM BOARD
GWT	GLAZED WALL TILE
H	
HB	HOSE BIBB
HDW	HARDWARE
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HT	HEIGHT
HVAC	HEATING, VENTILATION & AIR CONDITIONING
HWD	HARDWARE
I	
ID	INSIDE DIAMETER
IN	INCH
INCL	INCLUDE (D) (ING)
INT	INTERIOR
INV	INVERT
J	
JB	JUNCTION BOX
JC	JANITOR CLOSET
L	
L	LONG
LAV	LAVATORY
LBS	POUNDS
LH	LEFT HAND
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LTL	LINTEL
LVR	LOUVER
M	
M	MEN OR METER
MAS	MASONRY
MAT	MATERIAL
MAX	MAXIMUM
MC	MECHANICAL CONTRACTOR
MECH	MECHANICAL
MFR	MANUFACTURER
MH	MOUNTING HEIGHT, MANHOLE
MIL	THOUSANDTHS OF AN INCH
MM	MILLIMETER
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MTD	MOUNTED
MTL	METAL
N	
N	NORTH OR NITROGEN
NC	NURSE CALL
NIC	NOT IN CONTRACT
NO	NUMBER OR NITROUS OXIDE
NOM	NOMINAL
NRC	NOISE REDUCTION COEFFICIENT
NTS	NOT TO SCALE
O	
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISH, CONTRACTOR INSTALL
OFOI	OWNER FURNISH, OWNER INSTALL
OFVI	OWNER FURNISH, VENDOR INSTALL
OH	OVERHEAD
OHD	OVERHEAD DOOR
OPNG	OPENING
OPP	OPPOSITE
O_2	OXYGEN
P	
PAR	PARALLEL
PC	PLUMBING CONTRACTOR
PCF	POUNDS PER CUBIC FOOT
PL	PLATE OR PROPERTY LINE
PLBG	PLUMBING
PLWD	PLYWOOD
PME	PLUMBING, MECHANICAL & ELECTRICAL
PNL	PANEL
PR	PAIR
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE

Q	
QTY	QUANTITY
R	
R	RADIUS
RA	RETURN AIR
RB	RUBBER BASE
RD	ROOF DRAIN
RECEPT	RECEPTACLE
REF	REFERENCE
REINF	REINFORCE
REQD	REQUIRED
RET	RETURN
REV	REVISION
RH	RIGHT HAND
RM	ROOM
RO	ROUGH OPENING
ROW	RIGHT OF WAY
S	
S	SOUTH
SAN	SANITARY
SB	SINK BASE
SCHED	SCHEDULE
SEAL	SEALANT
SECT	SECTION
SF	SQUARE FEET
SG	SAFETY GLASS
SH	SPRINKLER HEAD OR SHOWER HEAD
SHT	SHEET
SHTG	SHEATHING
SIM	SIMILAR
SPEC	SPECIFICATION(S)
SPK	SPEAKER
SQ	SQUARE
ST	STREET
STC	SOUND TRANSMISSION CLASSIFICATION
STD	STANDARD
STL	STEEL
STR	STRUCTURAL
SUSP	SUSPENDED
SV	SHEET VINYL
SYS	SYSTEM
T	
T & G	TONGUE & GROOVE
TB	TOWEL BAR
T&B	TOP AND BOTTOM
TEL	TELEPHONE
TOC	TOP OF CONCRETE
TOS	TOP OF STEEL
TOM	TOP OF MASONRY
TOW	TOP OF WALL
TRANS	TRANSFORMER
TV	TELEVISION
TYP	TYPICAL
U	
UC	UNDER CABINET OR COUNTER
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORY
UNO	UNLESS NOTED OTHERWISE
V	
V	VACUUM
VB	VAPOR BARRIER
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VS	VACUUM SLIDE
W	
W	WIDE OR WEST OR WOMEN
W/	WITH
W/O	WITHOUT
WC	WATER CLOSET OR WALL CABINET
WD	WOOD
WIN	WINDOW
WP	WORK POINT
WPT	WOOD PRESERVATIVE TREATMENT
WT	WEIGHT
WWF	WELDED WIRE FABRIC

REFERENCE SYMBOLS

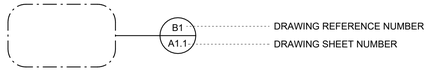
DRAWING TITLE



INTERIOR ELEVATIONS

BUILDING/DETAIL SECTION

ENLARGED DETAIL



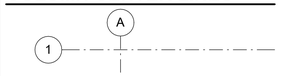
EXTERIOR ELEVATIONS

MATCH LINE

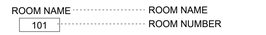
MATERIAL SYMBOLS IN SECTION

DRAWING SYMBOLS

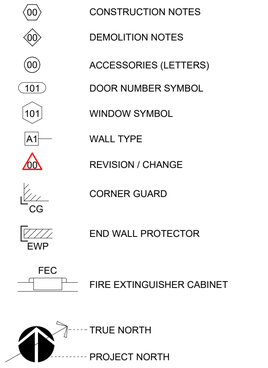
COLUMN CENTER LINES



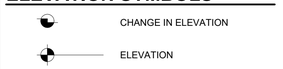
ROOM SYMBOL



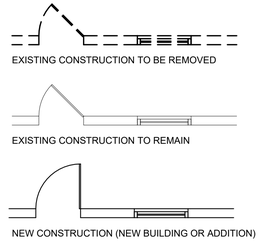
PLAN SYMBOLS



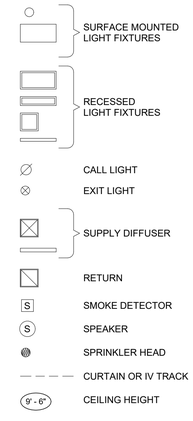
ELEVATION SYMBOLS



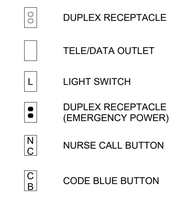
TYPICAL WALL CONVENTIONS



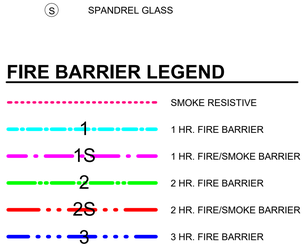
REFLECTED CEILING SYMBOLS



INTERIOR ELEVATION SYMBOLS



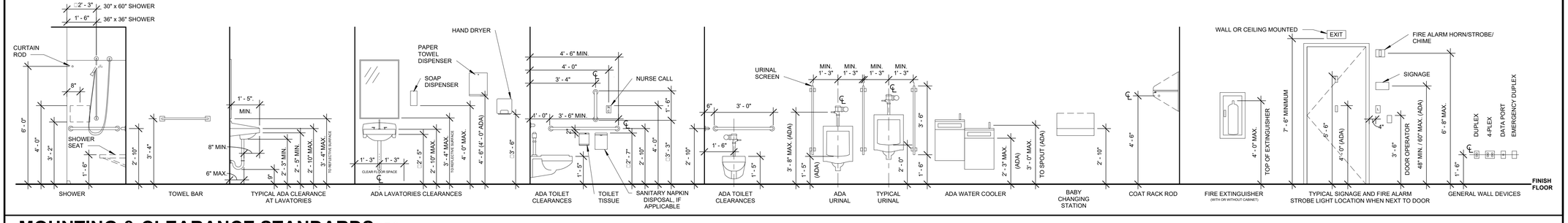
FIRE BARRIER LEGEND



ALL SYMBOLS OR ABBREVIATIONS MIGHT NOT NECESSARILY BE USED ON THIS PROJECT.
ADDITIONAL SYMBOLS OR ABBREVIATIONS MAY APPEAR ON SUBSEQUENT SHEETS.

MOUNTING & CLEARANCE STANDARDS N.T.S.

(FOLLOW THESE UNLESS NOTED OTHERWISE)



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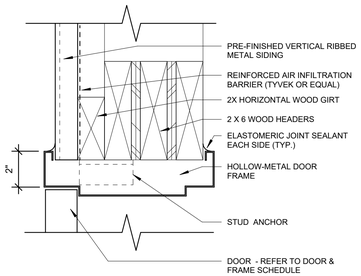
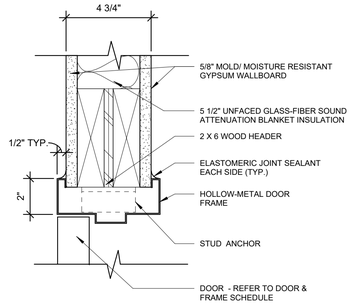
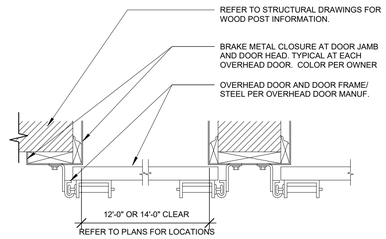


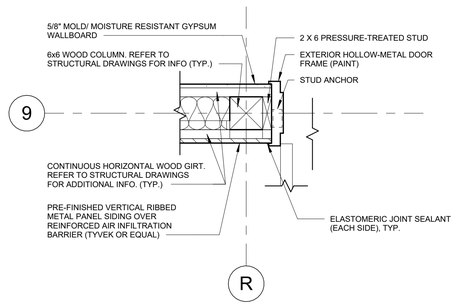
B1 HEAD DETAIL
3" = 1'-0"



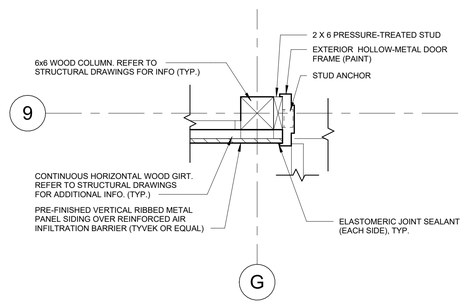
B2 HEAD DETAIL
3" = 1'-0"



B3 TYP. OVERHEAD DOOR JAMB DETAIL
1 1/2" = 1'-0"

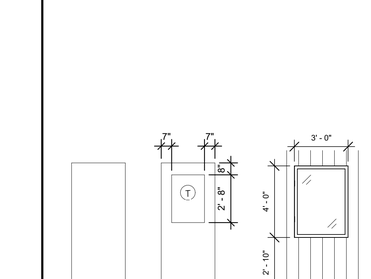


B4 DOOR DETAIL @ CONDITIONED WORK BAY
1" = 1'-0"



B6 DOOR DETAIL @ UNCONDITIONED STORAGE
1" = 1'-0"

C1 HEAD DETAIL
3" = 1'-0"



C2 JAMB DETAIL
3" = 1'-0"

E1 SILL DETAIL
3" = 1'-0"

E2 INTERIOR SILL DETAIL
3" = 1'-0"

ALTERNATES:

- **PROVIDE ADD ALTERNATE TO PROVIDE METAL PANEL (MP-1) TO INTERIOR WALLS AND CEILING OF "UNCONDITIONED STORAGE - 100"**
- **PROVIDE DECUCT ALTERNATE TO REDUCE INTERIOR UL-RATED COILING DOOR FROM 6'-0" X 10'-0" TO 3'-0" X 8'-0".**

DOOR AND FRAME SCHEDULE

		DOOR						FRAME								
		SIZE									DETAILS					
DOOR No.	ROOM NAME	W	H	T	MAT.	TYPE	FIN.	MAT.	TYPE	FIN.	HEAD	JAMB	SILL	HDW. SET	FIRE RTG.	REMARKS
100A	UNCONDITIONED STORAGE	3' - 0"	7' - 0"	1 3/4"	HM	HG1	P-2	HM	1	P-2	B1/ A0.2	C1/ A0.2	E1/ A0.2	01	-	2
100B	UNCONDITIONED STORAGE	3' - 0"	7' - 0"	1 3/4"	HM	HG1	P-2	HM	1	P-2	B1/ A0.2	C1/ A0.2	E1/ A0.2	01	-	2
101A	CONDITIONED WORK BAY	3' - 0"	7' - 0"	1 3/4"	HM	HG1	P-2	HM	1	P-2	B1/ A0.2	C1/ A0.2	E1/ A0.2	01	-	1, 2
101B	CONDITIONED WORK BAY	3' - 0"	7' - 0"	1 3/4"	HM	HG1	P-2	HM	1	P-2	B1/ A0.2	C1/ A0.2	E1/ A0.2	01	-	1, 2
101C	CONDITIONED WORK BAY	3' - 0"	7' - 0"	1 3/4"	HM	F1	P-2	HM	1	P-2	B2/ A0.2	C2/ A0.2	E2/ A0.2	01	3 HR	
102	OFFICE	3' - 0"	7' - 0"	1 3/4"	HM	HG1	P-2	HM	1	P-2	B2/ A0.2	C2/ A0.2	E2/ A0.2	02	-	
103	MEN	3' - 0"	7' - 0"	1 3/4"	HM	F1	P-2	HM	1	P-2	B2/ A0.2	C2/ A0.2	E2/ A0.2	03	-	
104	STORE RM	3' - 0"	7' - 0"	1 3/4"	HM	F1	P-2	HM	1	P-2	B2/ A0.2	C2/ A0.2	E2/ A0.2	03	-	
105	CLOSET	3' - 0"	7' - 0"	1 3/4"	HM	F1	P-2	HM	1	P-2	B2/ A0.2	C2/ A0.2	E2/ A0.2	04	-	

DOOR REMARKS

No.	REMARK
1.	INSULATED HOLLOW-METAL DOOR.
2.	PROVIDE WEATHERSTRIPPING AND SWEEPS.
3.	P-2: EXTERIOR PAINT. BASIS OF DESIGN - SHERWIN WILLIAMS, EXTERIOR LATEX, PRO INDUSTRIAL ACRYLIC, SEMI-GLOSS OVER SHOP-PRIMED METAL. RUST-INHIBITIVE WATER-BASED PRIMER, PRO INDUSTRIAL PRO-CRYL UNIVERSAL PRIMER
4.	HARDWARE SET 01: HINGES: (1 1/2 PAIR 5-KNUCKLE, NON-FERROUS, BALL BEARING, NON-REMOVABLE PINS), SURFACE-MOUNTED CLOSER, LOCKSET: (TRILOGY T2 STANDALONE DIGITAL LOCK, DL2700/26D, 26018-5-ADR), WEATHERSTRIPPING, SWEEPS, THRESHOLD
5.	HARDWARE SET 02: HINGES: (1 1/2 PAIR, 5-KNUCKLE, BALL-BEARING), OFFICE LOCKSET: (SARGENT, SINGLE CYLINDER, 10XG04 OR SIMILAR)
6.	HARDWARE SET 03: HINGES: (1 1/2 PAIR, 5-KNUCKLE, BALL-BEARING), PRIVACY LOCKSET: (SARGENT, NON-CYLINDER, 10XU65 OR SIMILAR)
7.	HARDWARE SET 04: HINGES: (1 1/2 PAIR, 5-KNUCKLE, BALL-BEARING), PASSAGE LATCHSET: (SARGENT, NON-CYLINDER, 10XU15 OR SIMILAR)

ROOM FINISH SCHEDULE

				WAINSCOT		WALLS				CEILING	
ROOM No.	ROOM NAME	FLOOR	BASE	MAT.	HT.	N	S	E	W	MAT.	REMARKS
100	UNCONDITIONED STORAGE	SC-1	- - - -	- - - -	- - - -	- - -	- - -	MP-1	- - -	EXPOSED	1, 2, 3, 4
101	CONDITIONED WORK BAY	SC-1	RB-1	- - - -	- - - -	MP-1	MP-1	MP-1	MP-1	MP-1	2, 3, 4, 5, 6, 7
102	OFFICE	SC-1	RB-1	- - - -	- - - -	P-1	P-1	P-1	P-1	APC-1	3, 4, 5, 6, 7
103	MEN	SC-1	RB-1	- - - -	- - - -	P-1	P-1	P-1	P-1	APC-1	3, 4, 5, 6, 7
104	STORE RM	SC-1	RB-1	- - - -	- - - -	P-1	P-1	P-1	P-1	APC-1	3, 4, 5, 6, 7
105	CLOSET	SC-1	RB-1	- - - -	- - - -	P-1	P-1	P-1	P-1	APC-1	3, 4, 5, 6, 7

ROOM FINISH SCHEDULE REMARKS

No.	REMARK
1.	EXPOSED TO STRUCTURE OVERHEAD
2.	MP-1 SHAPE, FINISH, AND PROFILE SHALL MATCH PRE-FINISHED EXTERIOR METAL PANEL SIDING. PROVIDE CONT. TOP AND BOTTOM TRIM AT INTERIOR. TYPICAL EXTERIOR TRIM PER MANUF.
3.	MOLD & MOISTURE RESISTANT GYPSUM WALLBOARD
4.	SC-1: SEALED CONCRETE FLOOR SLAB.
5.	RB-1: 4" - HIGH RUBBER BASE. BASIS OF DESIGN - TARKETT DURACOVE, TYPE - TP, THERMOPLASTIC RUBBER 1/8"
6.	P-1: INTERIOR PAINT. BASIS OF DESIGN - SHERWIN WILLIAMS, LOW ODOR/VOC INTERIOR LATEX, PROMAR 200 ZERO VOC, LOW SHEEN, EGGSHELL FINISH. COLOR TO BE SELECTED BY OWNER.
7.	APC-1: ACOUSTIC PANEL CEILING SYSTEM. BASIS OF DESIGN - USG, 2X4 LAY-IN TILE (2315), SQ EDGE, WITH 15/16", DX-GRID (WHITE)

DOOR & WINDOW ELEVATIONS

TYPE F1
FLUSH

TYPE HG1
HALF GLASS

TYPE W1
WINDOW

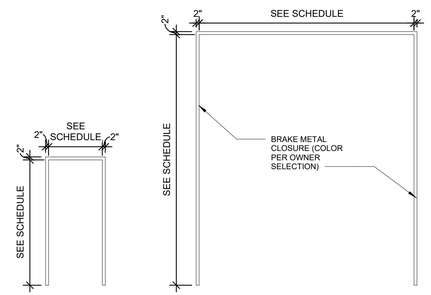
TYPE OH1

TYPE OH2

TYPE CD1

(T) INDICATES TEMPERED SAFETY GLAZING

FRAME ELEVATIONS



TYPE 1
SINGLE / PAIR STANDARD

TYPE 2
OVERHEAD DOOR FRAME

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ISSUE

NO.	DATE	DESCRIPTION
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DATE	08.22.2024
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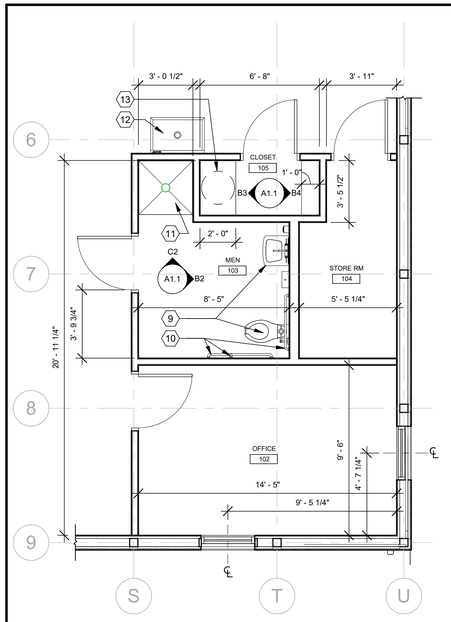
DRAWN	AJB, LJY
CHECKED	TAG

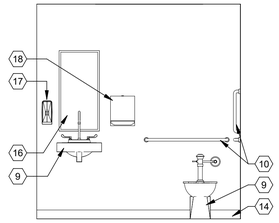
TITLE
DOOR & ROOM FINISH SCHEDULES

SHEET NO.
A0.2

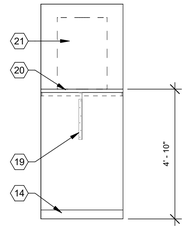
8/22/2024 2:58:01 PM



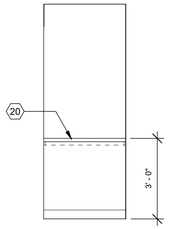
C1 ENLARGED PLAN
1/4" = 1'-0"



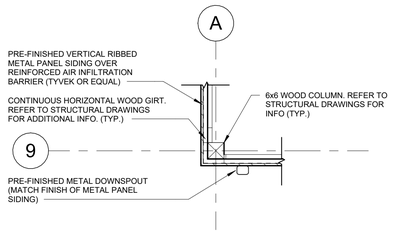
B2 103 - MEN, NORTH
3/8" = 1'-0"



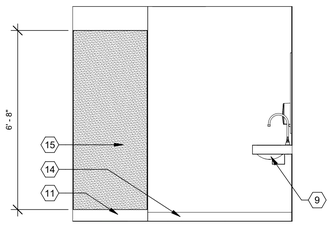
B3 105 - CLOSET, SOUTH
3/8" = 1'-0"



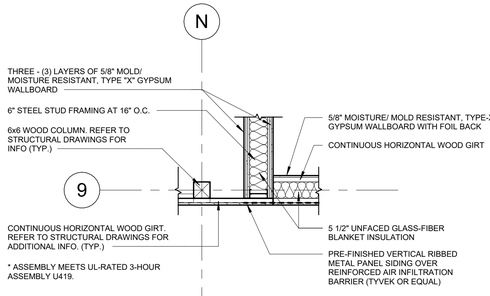
B4 105 - CLOSET, NORTH
3/8" = 1'-0"



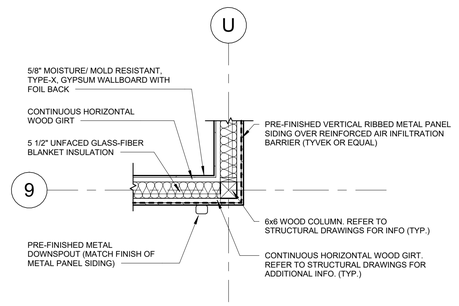
B5 ENLARGED PLAN DETAIL
1/2" = 1'-0"



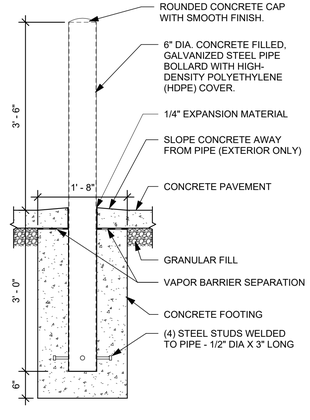
C2 103 - MEN, WEST
3/8" = 1'-0"



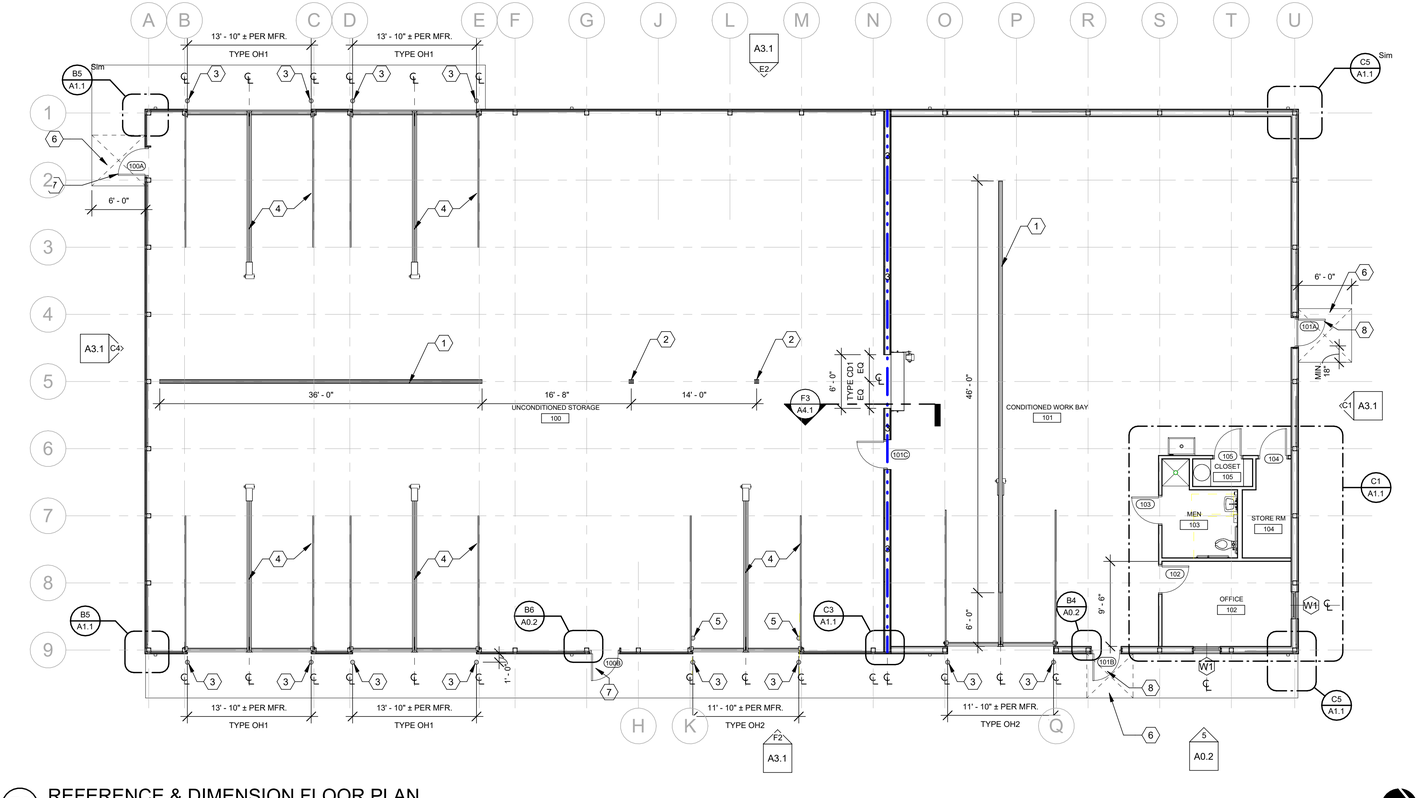
C3 ENLARGED PLAN DETAIL
1/2" = 1'-0"



C5 ENLARGED PLAN DETAIL
1/2" = 1'-0"



F1 TYP. PIPE BOLLARD DETAIL
3/4" = 1'-0"



F2 REFERENCE & DIMENSION FLOOR PLAN
1/8" = 1'-0"

CONSTRUCTION NOTES

00 INDICATES CONSTRUCTION NOTE.

1 CONTINUOUS TRENCH DRAIN. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.

2 FLOOR DRAIN. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.

3 CONCRETE FILLED, STEEL PIPE BOLLARD. REFER TO DETAIL ON SHEET A1.1.

4 OVERHEAD DOOR TRACK, ABOVE.

5 PROVIDE ADDITIONAL CONCRETE FILLED BOLLARD AT INTERIOR WHERE DRIVE-THRU OPTION DOES NOT EXIST.

6 EXTERIOR ANTI-HEAVE CONCRETE PAD. REFER TO TYPICAL DETAILS ON STRUCTURAL DRAWINGS.

7 NON-INSULATED HOLLOW-METAL DOOR ASSEMBLY.

8 INSULATED HOLLOW-METAL DOOR ASSEMBLY.

9 PLUMBING FIXTURE - REFER TO PLUMBING DRAWINGS FOR INFO, TYP.

10 1 1/2" DIA. GRAB BAR. BASIS OF DESIGN: BOBRICK, B-6806, STRAIGHT GRAB BAR, SATIN STAINLESS. PROVIDE 42", 36" AND VERTICAL 18" GRAB BARS PER ANSI A117

11 PREFABRICATED SOLID SURFACE SHOWER PAN. BASIS OF DESIGN, INPRO CORP, STANDARD 36" X 36" SQUARE SHOWER RECEPTOR - PRISM WITH 1/4" WALL PANELS OF MATCHING COLOR.

12 UTILITY SINK. REFER TO PLUMBING DRAWINGS FOR INFO, TYP.

13 PLASTIC LAMINATE SHELF. PROVIDE CLEATS ON ALL SIDE (MATCHING LAMINATE) AND STEEL SUPPORT BRACKET AT MIDSPAN TO SUPPORT WATER HEATER.

14 BASE, AS SCHEDULED.

15 HATCH INDICATES SOLID SURFACE WALL PANELS. PROVIDE PANELS ON THREE-(3) SIDES. COORDINATE WITH MATCHING SHOWER PAN.

16 MIRROR WITH CONCEALED MOUNTING HARDWARE. BASIS OF DESIGN: BOBRICK, B-290 - 1836.

17 SOAP DISPENSER. OWNER FURNISHED, CONTRACTOR INSTALL.

18 PAPER TOWEL DISPENSER. OWNER FURNISHED, CONTRACTOR INSTALL.

19 STEEL SUPPORT BRACKET. PROVIDE MIDSPAN TO SUPPORT WATER HEATER.

20 PLASTIC LAMINATE SHELF. PROVIDE CLEATS ON ALL SIDES (MATCHING LAMINATE).

21 WATER HEATER. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION, TYP.

GENERAL NOTES

A. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING STRUCTURAL WOOD TRUSSES, CROSS-BRACING, FOOTINGS AND OTHER RELATED STRUCTURAL INFORMATION.

B. REFER TO PLUMBING, ELECTRICAL, AND MECHANICAL DRAWINGS FOR ADDITIONAL ENGINEERING INFORMATION.

C. REFER TO CIVIL DRAWINGS FOR ADDITIONAL SITE AND UTILITY INFORMATION.

D. OVERHEAD DOORS SHOWN ARE BASIS OF DESIGN AND DO NOT NECESSARILY REFLECT DETAILS CONSISTENT WITH OTHER MANUFACTURERS. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO COORDINATE INSTALLATION, IN FULL, OF ALL OVERHEAD DOOR AND COMPONENTS WITH THE BUILDING FOR A COMPLETE, WEATHERTIGHT INSTALLATION.

E. ALL ROOF PENETRATIONS SHALL BE SEALED TIGHTLY PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

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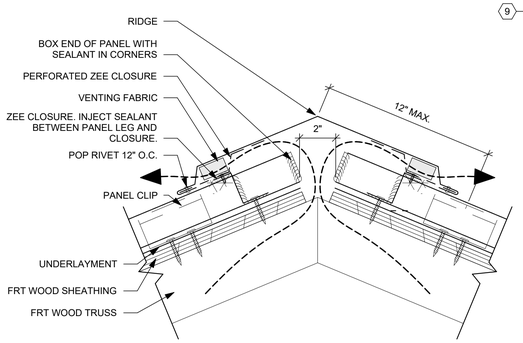
CHECKED	TAG

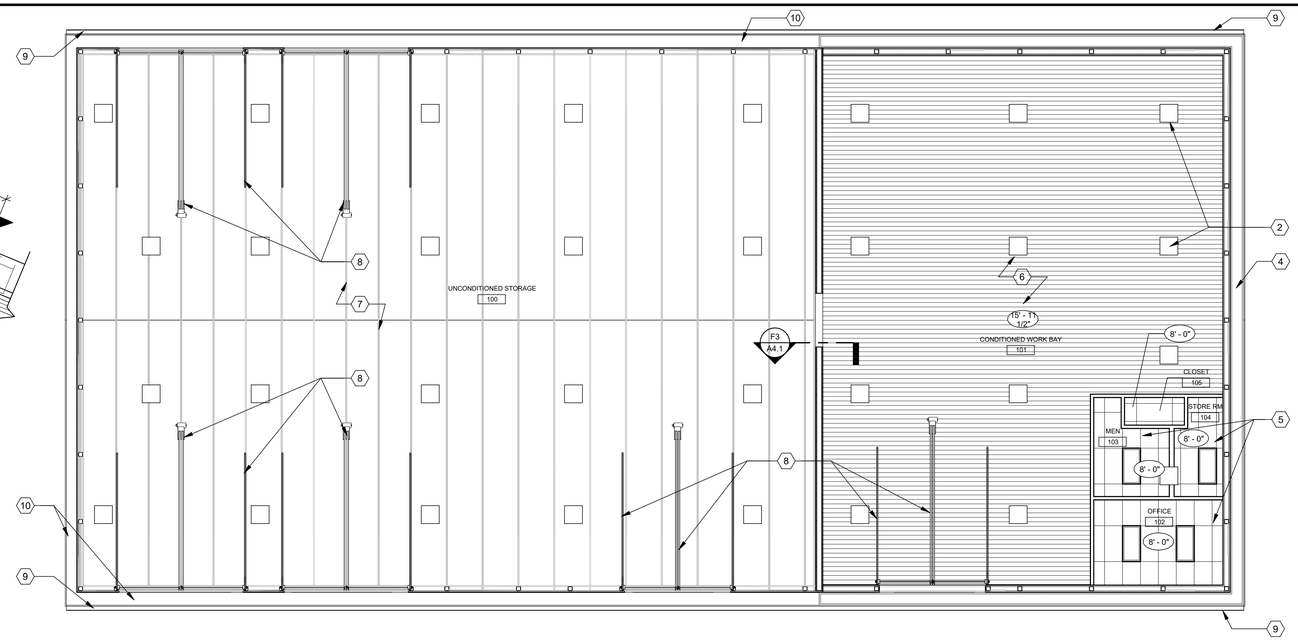
TITLE
REFERENCE FLOOR PLAN & ENLARGED DETAILS

SHEET NO.
A1.1

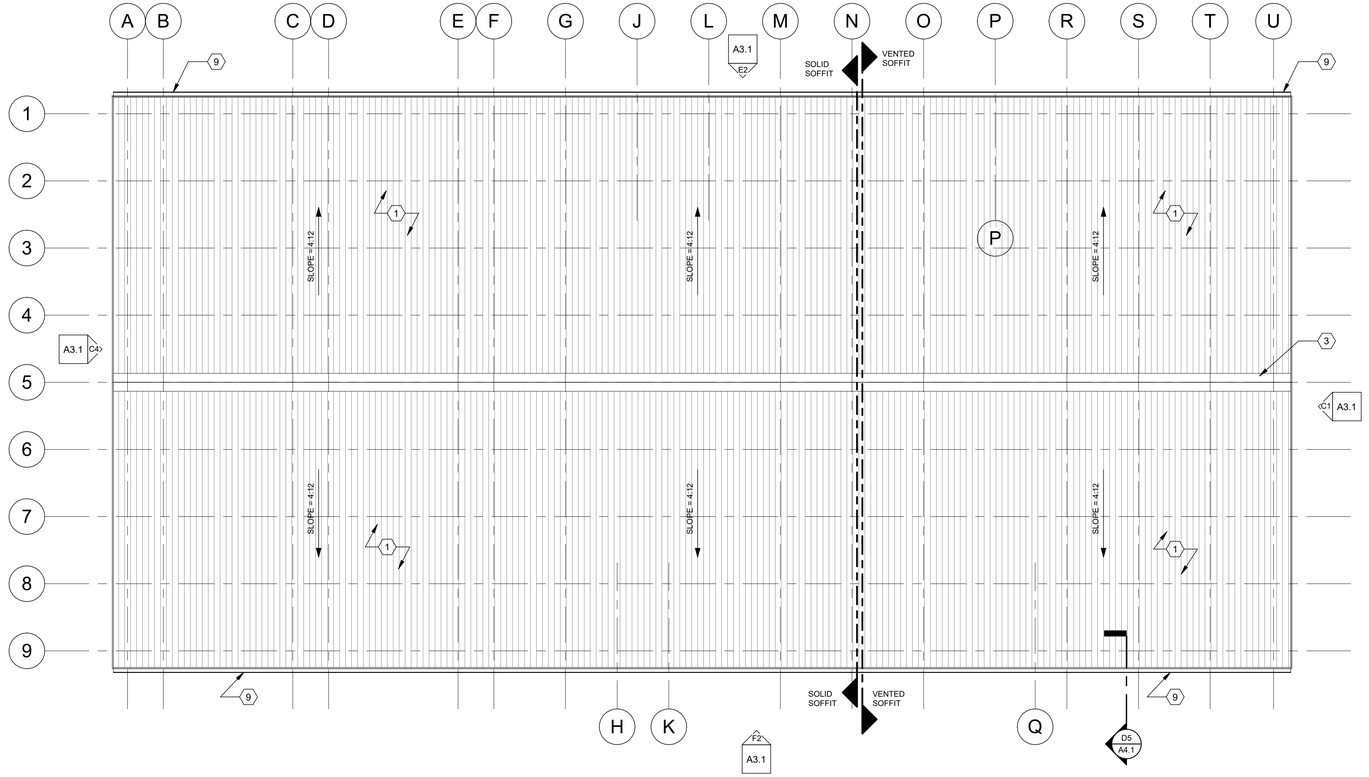
8/22/2024 2:58:03 PM



B1 RIDGE VENT DETAIL
3" = 1'-0"



C2 REFLECTED CEILING PLAN
1/8" = 1'-0"



F2 ROOF PLAN
1/8" = 1'-0"

CONSTRUCTION NOTES

00 INDICATES CONSTRUCTION NOTE.

1 PRE-FINISHED, EXPOSED FASTENER, RIBBED METAL ROOF PANEL OVER 1/2" OSB.

2 CHAIN-HUNG SHOP LIGHT. REFER TO ELECTRICAL DRAWINGS FOR INFORMATION (TYP.)

3 CONTINUOUS RIDGE VENT.

4 HATCH INDICATES PERFORATED ALUMINUM SOFFIT.

5 LAY-IN ACOUSTIC PANEL CEILING SYSTEM (APC). REFER TO FINISH SCHEDULE FOR INFORMATION.

6 PRE-FINISHED, EXPOSED FASTENER, RIBBED METAL PANEL SIDING ON UNDERSIDE OF WOOD TRUSSES. INSTALL PANELS PERPENDICULAR TO TRUSSES.

7 WOOD TRUSS FRAMING. REFER TO STRUCTURAL DRAWINGS FOR INFORMATION (TYP.)

8 OVERHEAD DOOR TRACK AND MOTOR ASSEMBLY. REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS FOR ADDITIONAL CROSS-FRAMING FOR TRACK ASSEMBLY.

9 PRE-FINISHED ALUMINUM BRAKE METAL GUTTER. COLOR TO MATCH PRE-FINISHED ROOF SYSTEM.

10 NON-PERFORATED ALUMINUM SOFFIT.

GENERAL NOTES

A. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING STRUCTURAL WOOD TRUSSES, CROSS-BRACING, FOOTINGS AND OTHER RELATED STRUCTURAL INFORMATION.

B. REFER TO PLUMBING, ELECTRICAL, AND MECHANICAL DRAWINGS FOR ADDITIONAL ENGINEERING INFORMATION.

C. REFER TO CIVIL DRAWINGS FOR ADDITIONAL SITE AND UTILITY INFORMATION.

D. OVERHEAD DOORS SHOWN ARE BASIS OF DESIGN AND DO NOT NECESSARILY REFLECT DETAILS CONSISTENT WITH OTHER MANUFACTURERS. IT IS THE RESPONSIBLITY OF THE GENERAL CONTRACTOR TO COORDINATE INSTALLATION, IN FULL, OF ALL OVERHEAD DOOR AND COMPONENTS WITH THE BUILDING FOR A COMPLETE, WEATHERTIGHT INSTALLATION.

E. ALL ROOF PENETRATIONS SHALL BE SEALED TIGHTLY PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

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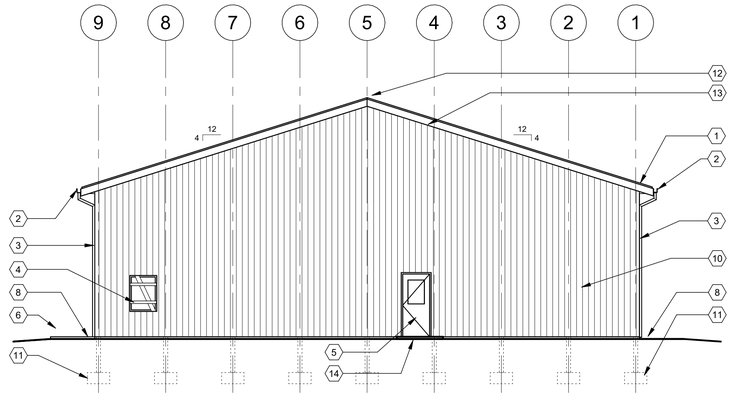
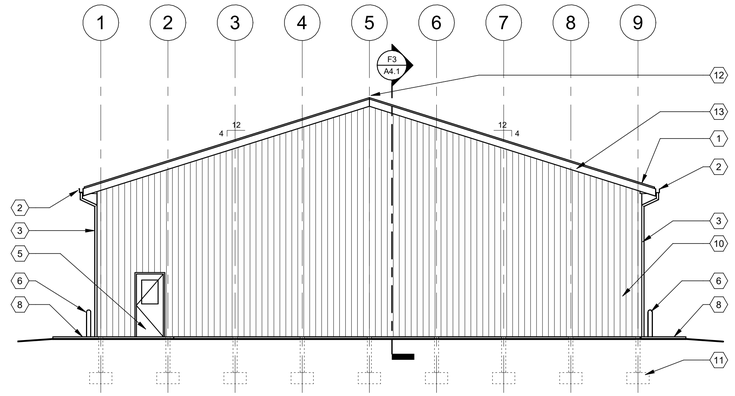
TITLE
REFLECTED CEILING & ROOF PLANS

SHEET NO.
A1.2

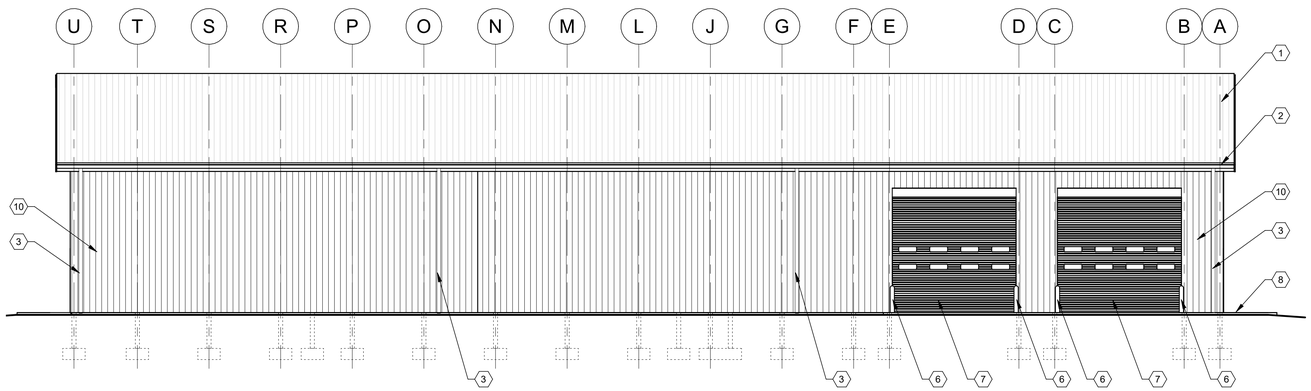
8/22/2024 2:58:04 PM



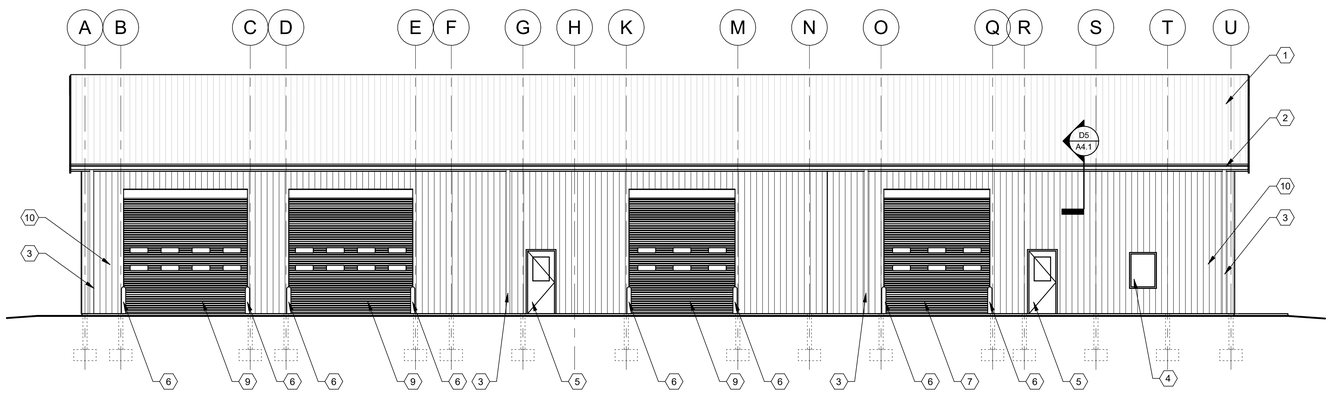
C1 SOUTH ELEVATION
1/8" = 1'-0"



C4 NORTH ELEVATION
1/8" = 1'-0"



E2 EAST ELEVATION
1/8" = 1'-0"



F2 WEST ELEVATION
1/8" = 1'-0"

CONSTRUCTION NOTES

00 INDICATES CONSTRUCTION NOTE.

1 PRE-FINISHED, EXPOSED FASTENER, RIBBED METAL ROOF PANEL OVER 1/2" OSB.

2 PRE-FINISHED ALUMINUM BRAKE METAL GUTTER. COLOR TO MATCH PRE-FINISHED ROOF SYSTEM.

3 SITE FORMED, PRE-FINISHED ALUMINUM BRAKE METAL DOWNSPOUT. COLOR TO MATCH PRE-FINISHED ROOF SYSTEM.

4 FIXED, ALUMINUM, THERMALLY-BROKEN WINDOW SYSTEM WITH 1" INSULATED, LOW-E GLAZING.

5 HOLLOW-METAL DOOR (PAINT). PROVIDE INSULATED DOOR AT CONDITIONED WORKSHOP.

6 CONCRETE FILLED, STEEL PIPE BOLLARD. REFER TO DETAIL ON SHEET A1.1.

7 INSULATED OVERHEAD DOOR. BASIS OF DESIGN: OVERHEAD DOOR COMPANY, MODEL 426 - HEAVY-DUTY SECTIONAL INSULATED STEEL DOOR WITH INSLATED GLAZING.

8 MAINTAIN POSITIVE SLOPE AWAY FROM BUILDING. COORDINATE WITH CIVIL DRAWINGS (TYP.)

9 NON-INSULATED OVERHEAD DOOR. BASIS OF DESIGN: OVERHEAD DOOR COMPANY, MODEL 420 - HEAVY-DUTY SECTIONAL STEEL DOOR WITH GLAZING.

10 PRE-FINISHED, EXPOSED FASTENER, RIBBED METAL SIDING OVER REINFORCED AIR INFILTRATION BARRIER (TYVEK OR EQUAL)

11 CONCRETE FOOTER. REFER TO STRUCTURAL DRAWINGS FOR INFORMATION (TYP.)

12 CONTINUOUS RIDGE VENT.

13 PRE-FINISHED ALUMINUM BRAKE METAL FASCIA. COLOR TO MATCH ROOF.

14 ANTI-HEAVE CONCRETE PAD LANDING.

GENERAL NOTES

A. REFER TO PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

B. ALL FINISH COLORS SHALL BE SELECTED AND APPROVED BY OWNER.

C. COORDINATE WITH CIVIL DRAWINGS FOR ADDITIONAL UTILITY INFORMATION.

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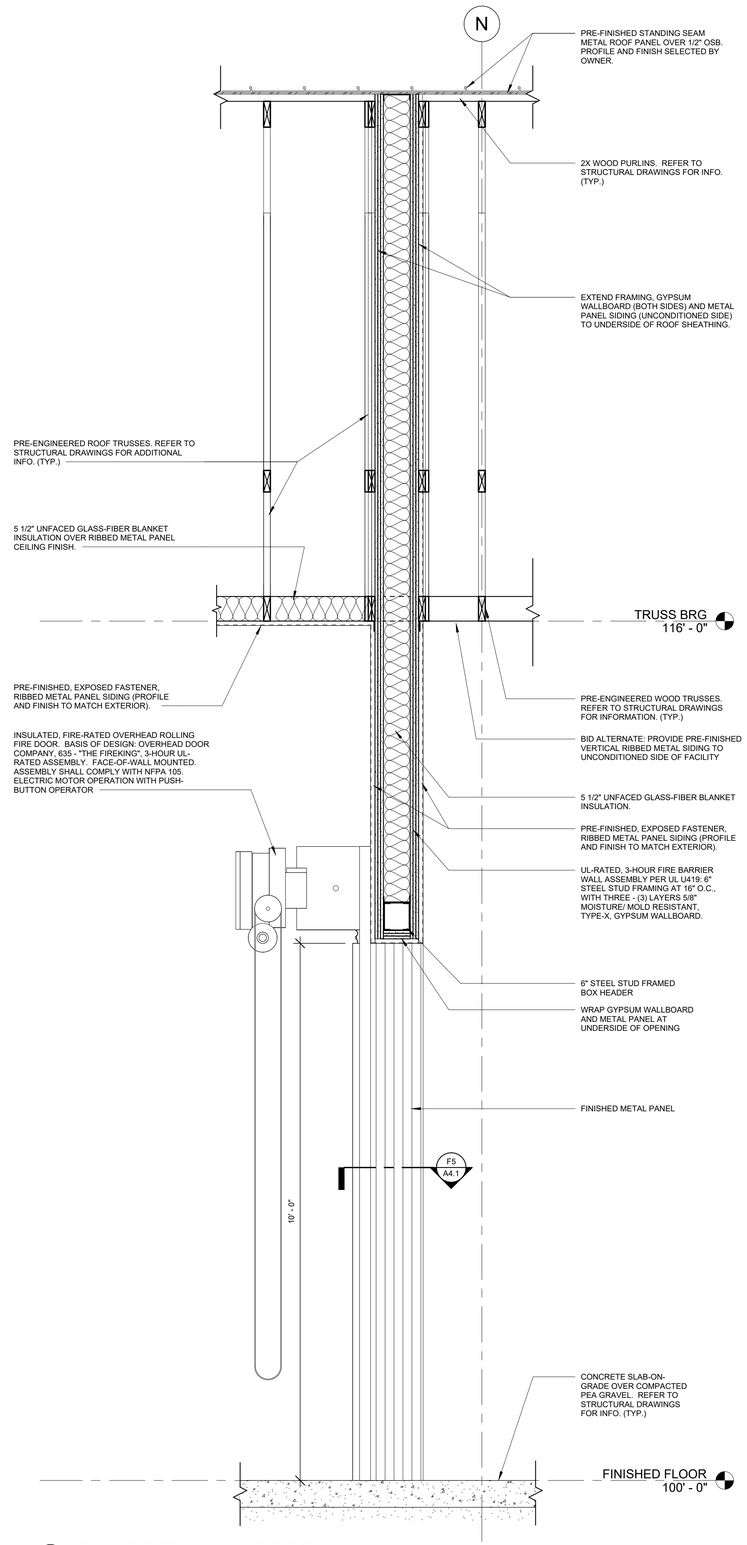
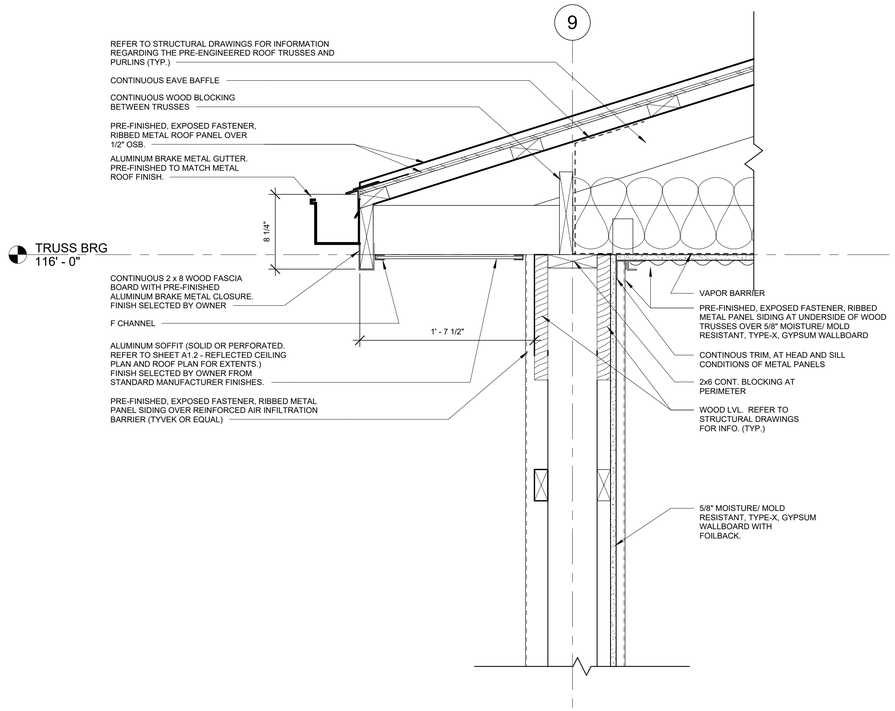
TITLE
EXTERIOR ELEVATIONS

SHEET NO.
A3.1

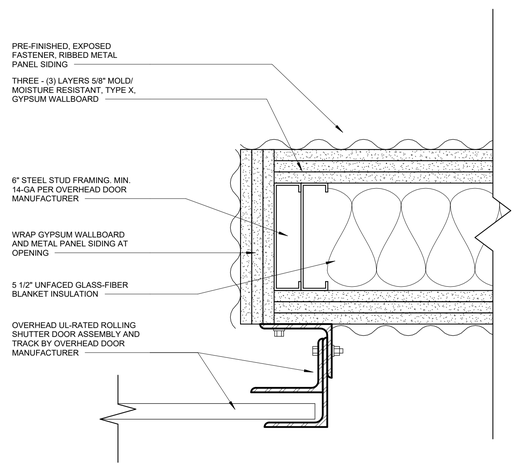
8/22/2024 2:58:06 PM



F3 ENLARGED WALL SECTION
3/4" = 1'-0"



D5 TYPICAL OVERHANG DETAIL @ CONDITIONED WORK BAY
1 1/2" = 1'-0"



F5 ENLARGED JAMB DETAIL
3" = 1'-0"

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CHECKED	TAG

TITLE
WALL SECTIONS

SHEET NO.
A4.1

8/22/2024 2:58:07 PM

A. GENERAL:

1. THE STRUCTURAL ENGINEER OF RECORD IS RESPONSIBLE FOR THE ADEQUACY OF THE STRUCTURAL DESIGN AS SHOWN IN THE CONTRACT DOCUMENTS WHICH DEPICT THE STRUCTURE IN ITS COMPLETED FORM. THE STRUCTURE IS DESIGNED TO BE CAPABLE OF WITHSTANDING CODE PRESCRIBED DESIGN FORCES AND FULLY STABLE WHEN THE STRUCTURE IS FULLY CONSTRUCTED (I.E., FULLY BUILT). IT IS SOLEY THE RESPONSIBILITY OF OTHERS TO DETERMINE ERECTION PROCEDURE AND SEQUENCE AS WELL AS TO PROVIDE FOR THE SAFETY OF THE STRUCTURE AND ITS COMPONENTS PARTS DURING ERECTION. THIS INCLUDES THE ADDITION OF WHATEVER SHORING, SHEETING, TEMPORARY BRACING, GUYS, TIE DOWNS, OR DE-WATERING WHICH MIGHT BE NECESSARY. SUCH MATERIAL SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER THE COMPLETION OF THE PROJECT.
2. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION.
3. ALL ELEVATIONS GIVEN ON THE STRUCTURAL DRAWINGS ARE BASED ON THE GROUND FLOOR DATUM OF 100'-0" (U.N.O.).
4. THE STRUCTURAL ENGINEER OF RECORD IS RESPONSIBLE FOR THE ADEQUACY OF THE STRUCTURAL DESIGN AS SHOWN IN THE CONTRACT DOCUMENTS WHICH DEPICT THE STRUCTURE IN ITS COMPLETED FORM. THE STRUCTURE IS DESIGNED TO BE CAPABLE OF WITHSTANDING CODE PRESCRIBED DESIGN FORCES AND FULLY STABLE WHEN THE STRUCTURE IS FULLY CONSTRUCTED (I.E., FULLY BUILT). IT IS SOLEY THE RESPONSIBILITY OF OTHERS TO DETERMINE ERECTION PROCEDURE AND SEQUENCE AS WELL AS TO PROVIDE FOR THE SAFETY OF THE STRUCTURE AND ITS COMPONENTS PARTS DURING ERECTION. THIS INCLUDES THE ADDITION OF WHATEVER SHORING, SHEETING, TEMPORARY BRACING, GUYS, TIE DOWNS, OR DE-WATERING WHICH MIGHT BE NECESSARY. SUCH MATERIAL SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER THE COMPLETION OF THE PROJECT.
5. STRUCTURAL DRAWINGS ARE INTENDED TO BE USED WITH THE OTHER DRAWINGS RELEASED FOR THE PROJECT. CONTRACTOR TO COORDINATE, TO THE EXTENT POSSIBLE, SUCH INTERRELATIONSHIPS IN PROJECT SHOP DRAWINGS AND FIELD WORK.
6. DO NOT SCALE THESE DRAWINGS, USE DIMENSIONAL DATA PROVIDED.
7. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR FIRE RATING REQUIREMENTS, FIRE-PROOFING METHODS, AND FIRE-PROOFING MATERIALS FOR STRUCTUREAL MEMBERS.

B. DELEGATED DESIGN / DEFERRED SUBMITTALS:

1. DELEGATED DESIGN AND DEFERRED SUBMITTALS ARE ITEMS DESIGNED BY OTHERS. SHOP DRAWINGS AND CALCULATIONS SHALL BE GENERATED FOR THE DESIGN AND FABRICATION OF ALL DELEGATED DESIGN AND DEFERRED SUBMITTALS ITEMS INDICATED BELOW. THESE DRAWINGS AND CALCULATIONS SHALL BE SEALED AND SIGNED BY A PROFESSIONAL ENGINEER IN THE STATE WHERE THE PROJECT IS TO BE CONSTRUCTED. FOR ITEMS INDICATED AS "DESIGNED BY THE CONTRACTOR", "DESIGNED BY SUPPLIER", "DESIGNED BY FABRICATOR" AND "DESIGNED BY INSTALLER", IF THESE ENTITIES ARE NOT PROVIDING THEIR OWN ENGINEERING WITH THEIR DESIGNS COMPLETED BY A PROFESSIONAL ENGINEER WHO WILL SEAL AND SIGN THEIR SUBMITTALS THEN THESE ENTITIES WILL INDEPENDENTLY CONTRACT A THIRD PARTY TO PROVIDE THIS SERVICE ON THEIR BEHALF. UNLESS SPECIFIED ON THE DRAWINGS OR IN THE SPECIFICATIONS, DELEGATED DESIGN ITEMS SHALL BE DESIGNED FOR ALL CODE DEFINED LOADS PLUS INDUSTRY STANDARD LOADS INCLUDING GRAVITY LOADS AND LATERAL LOADS DUE TO WIND AND SEISMIC. SEE THE RELEVANT SECTIONS OF THE GENERAL NOTES SHEETS FOR ADDITIONAL DESIGN REQUIREMENTS. CALCULATIONS SHALL INCLUDE REVIEW OF THE CAPACITIES OF ALL SUPPORTING STRUCTURAL ELEMENTS INCLUDING LOCAL STRESSES DUE TO THE CONNECTION METHODS SELECTED. ADDITIONALLY, THE CALCULATIONS AND DRAWINGS SHALL CLEARLY INDICATE THE MAGNITUDES AND DIRECTIONS OF THE LOADS IMPARTED ON THE SUPPORTING STRUCTURAL ELEMENTS. THE LOADING CRITERIA USED FOR DESIGN OF THE DELEGATED DESIGN SYSTEMS AND COMPONENTS SHALL BE CLEARLY INDICATED ON THE DRAWINGS AND CALCULATIONS, REGARDLESS OF WHETHER THEY ARE MANDATED BY THE ENGINEER OF RECORD BY WAY OF THE DRAWING AND SPECIFICATIONS OR DERIVED BY THE DESIGNER.
2. TEMPORARY SHORING: FOUNDATIONS - SHEET PILING, PILES AND LAGGING REQUIRED FOR INSTALLATION OF FOUNDATIONS AND FOUNDATION WALLS SHALL BE DESIGNED BY THE CONTRACTOR. EXCAVATIONS REQUIRED FOR FOUNDATION AND FOUNDATION WALL CONSTRUCTION NEXT TO EXISTING BUILDINGS, NEAR PROPERTY LINES AND NEAR OR OVER UTILITIES MUST BE CONSIDERED BY THE CONTRACTOR IN EVALUATING SHORING REQUIREMENTS.
3. MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION COMPONENTS: ROOF-TOP UNITS - DESIGN OF THE MECHANICAL UNIT CURB, CONNECTIONS OF THE UNIT TO THE CURB AND CONNECTIONS OF THE CURB TO STRUCTURE SHALL BE PROVIDED BY THE MECHANICAL UNIT CONTRACTOR. ADDITIONAL SUPPORT FRAMING FOR SUPPORTING THE GRAVITY AND LATERAL LOADS SHALL BE DESIGNED, ENGINEERED AND PROVIDED IF IT IS NOT INDICATED ON THE STRUCTURAL DRAWINGS. IF ADDITIONAL SUPPORT FRAMING IS PROVIDED, THE STRUCTURAL ADEQUACY SHALL BE VERIFIED FOR ALL ASCE 7-16 LOAD COMBINATIONS. SHOPS DRAWINGS AND CALCULATIONS PROVIDED BY THE MECHANICAL CONTRACTOR SHALL PROVIDE DETAILS INDICATING THESE CONNECTIONS. SUPPORT AND BRACING OF DUCTWORK, PIPING, CONDUIT AND CABLE TRAYS ASSOCIATED WITH MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION COMPONENTS SHALL BE PROVIDED BY THE CONTRACTOR INSTALLING THE COMPONENTS. FOR PROJECTS IN SEISMIC DESIGN CATEGORY C, D AND HIGHER, SEISMIC BRACING OF ALL MECHANICAL AND ELECTRICAL COMPONENTS REQUIRED BY THE ASCE 7-16 SHALL BE DESIGNED BY THE MECHANICAL CONTRACTOR AND CLEARLY INDICATED AND DETAILED ON THE SHOP DRAWINGS.
4. SUPPORTS FOR INTERIOR FINISHES AND ACCOUTERMENTS:
   INTERIOR PARTITIONS, SOFFITS AND STOREFRONT SYSTEMS NOT PART OF THE MAIN BUILDING SHELL SHALL BE DESIGNED BY THE SUPPLIER. SUPPORTS AND CONNECTION TO STRUCTURE REQUIRED FOR ARTWORK, SPECIALTY LIGHTING SYSTEMS, MONITORS, VIDEO EQUIPMENT AND PROJECTION SCREENS, TELEVISIONS AND ANY OTHER MISCELLANEOUS ITEMS SHALL BE PROVIDED BY THE SUPPLIER.
5. WINDOWS, STOREFRONTS, GLAZING AND CURTAIN WALL SYSTEMS:
   ALL EXTERIOR AND INTERIOR GLAZING SYSTEMS AND THEIR CONNECTIONS TO STRUCTURE SHALL BE DESIGNED BY THE SUPPLIER. CONNECTION LOCATIONS SHALL BE CLEARLY INDICATED AND COORDINATED WITH ARCHITECTURAL AND STRUCTURAL DETAILS.

   DUE TO MOVEMENT OF THE STRUCTURAL FRAMING SYSTEMS FROM LATERAL WIND AND SEISMIC FORCES, THE GLAZING SYSTEM MUST BE DESIGNED TO ACCOMMODATE 3/4" HORIZONTAL STORY DRIFT IN EACH DIRECTION AT EACH STORY LEVEL. THE DESIGN STORY DRIFT IS THE DIFFERENCE IN LATERAL DISPLACEMENT OF THE TOP OF THE STORY UNDER CONSIDERATION RELATIVE TO THE BOTTOM OF THAT STORY (TOP OF THE STORY BELOW).

   THE CONNECTIONS OF THE GLAZING SYSTEM TO STRUCTURE CAN BE DESIGNED FOR THIS RELATIVE HORIZONTAL MOVEMENT. THE CONNECTIONS SHALL BE DESIGNED FOR 3/4" HORIZONTAL (IN-PLANE) MOVEMENT IN ADDITION TO THE VERTICAL DEFLECTION REQUIREMENTS AS NOTED IN THE PLANS, DETAILS AND SPECIFICATIONS. IF THE CONNECTIONS ARE NOT DESIGNED FOR THE LATERAL MOVEMENT, THE GLAZING SYSTEM SHALL BE DESIGNED TO ACCOMMODATE 3/8" HORIZONTAL STORY DRIFT IN EACH DIRECTION AT EACH STORY LEVEL TO ACCOUNT FOR DIFFERENTIAL DISPLACEMENTS FROM LOAD REVERSALS IN THE STRUCTURAL SYSTEMS.

C. SOIL/STRUCTURE INTERACTION & SOIL PREPARATION INFORMATION:

1. DO NOT BACKFILL WALLS UNTIL CONCRETE HAS ATTAINED FOURTEEN (14) DAY STRENGTH OR LATERAL BRACING IS PROVIDED.
2. FOUNDATIONS HAVE BEEN DESIGNED ASSUMING AN ALLOWABLE SOIL BEARING PRESSURE OF 1,500 POUNDS PER SQUARE FOOT (PSF) FOR SPREAD FOOTINGS FOR BUILDING COLUMNS AND CONTINUOUS FOOTINGS FOR BEARING WALLS. SOIL CONDITIONS SHALL BE INSPECTED BY A GEOTECHNICAL ENGINEER OR AN APPOINTED REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER PRIOR TO CONCRETE PLACEMENT. THE GEOTECHNICAL ENGINEER (OR REPRESENTATIVE) SHALL BE THE SOLE JUDGE AS TO THE SUITABILITY OF THE BEARING MATERIAL.

D. DESIGN LOADS:

1. CODE REFERENCES:

   a. OHIO BUILDING CODE (OBC) - 2024
   b. ASCE 7-22, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
   c. BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND COMMENTARY, ACI 318 - 2017
   d. BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES AND SPECIFICATIONS FOR MASONRY STRUCTURES AND COMMENTARIES, ACI 530 - 2016
   e. COLD-FORMED STEEL DESIGN MANUAL, AISI - 2017
   f. SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, AISI - 2017
   g. CATALOG OF STANDARD SPECIFICATIONS AND LOAD TABLES FOR STEEL JOISTS AND JOIST GIRDERS, STEEL JOIST INSTITUTE - 2017
   h. STEEL DECK INSTITUTE FLOOR DECK DESIGN MANUAL, 1st EDITION - MARCH 2014
   i. STEEL DECK INSTITUTE ROOF DECK DESIGN MANUAL, 1st EDITION - MAY 2013
   j. STEEL DECK INSTITUTE DIAPHRAGM DESIGN MANUAL, 4th EDITION - SEPTEMBER 2015
   k. STEEL DECK INSTITUTE MANUAL OF CONSTRUCTION WITH STEEL DECK - OCTOBER 2016
   l. STEEL DECK INSTITUTE STANDARD PRACTICE DETAILS - MAY 2001
   m. MANUAL OF STEEL CONSTRUCTION - AISC, 15th EDITION - 2017
   n. SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OF A490 BOLTS - 01 AUGUST 2014
   o. STRUCTURAL WELDING CODE - STEEL, ANSI/AWS D1.1 - 2015
   p. FEMA 405 - NEHRP RECOMMENDED PROVISIONS FOR SEISMIC REGULATIONS FOR NEW BLDGS AND OTHER STRUCTURES - 2015

   DEAD LOADS:

ROOF DEAD LOAD	20 PSF (10 PSF BOTTOM / 10 PSF TOP)

   LIVE LOADS:

   FLOOR LIVE LOADS:

OCCUPANCY TYPES:	DISTRIBUTED LOADS	CONCENTRATED LOAD (ON 2.5 SF AREA
GARAGE SPACES	250 PSF	

   ROOF LIVE LOAD:

MINIMUM DESIGN ROOF LIVE LOAD	20 PSF

   SNOW LOAD PARAMETERS:

a.	GROUND SNOW LOAD, Pg	20 PSF
b.	FLAT-ROOF SNOW LOAD, Pf	14.0 PSF
c.	THERMAL FACTOR, Ct	1.0
d.	EXPOSURE FACTOR, Ce	1.0
e.	ROOF SLOPE FACTOR, Cs	1.0
f.	SNOW LOAD IMPORTANCE FACTOR, I	1.0

   WIND DESIGN PARAMETERS:

   a. ULTIMATE DESIGN WIND SPEED = 115 MPH
   b. WIND LOAD IMPORTANCE FACTOR = 1.0
   c. WIND EXPOSURE = EXPOSURE C
   d. MAIN WIND DESIGN VELOCITY PRESSURES:

HEIGHT (FT.)	WINDWARD WALL	LEEWARD WALL	SIDEWALLS
0 - 15	22.0 PSF	-17.8 PSF / -10.3 PSF	-22.8 PSF
15 - 20	22.9 PSF	-17.8 PSF / -10.3 PSF	-22.8 PSF
20 - 25	23.7 PSF	-17.8 PSF / -10.3 PSF	-22.8 PSF

   COMPONENT AND CLADDING - WALLS

AREA (SQ. FT.)	INTERIOR ZONE	EDGE ZONE
10	30.8 PSF	37.9 PSF
100	26.6 PSF	29.4 PSF
200	25.4 PSF	27.0 PSF
500	23.7 PSF	23.7 PSF

   SEISMIC DESIGN PARAMETERS:

a.	OCCUPANCY CATEGORY	II
b.	SITE CLASS	D
c.	IMPORTANCE FACTOR	1.0
d.	SEISMIC DESIGN CATEGORY:	B
e.	RESPONSE MODIFICATION COEFFICIENT, R	1-1/2
f.	0.2 SECOND DESIGN SPECTRAL RESPONSE, Sds	15.6%
g.	1.0 SECOND DESIGN SPECTRAL RESPONSE, Sd1	11.3%
h.	DEFLECTION AMPLIFICATION FACTOR, Cd	1-1/2
i.	ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE	
j.	SEISMIC FORCE-RESISTING SYSTEM: TIMBER FRAMES	
k.	SEISMIC BASE SHEAR: V = Cs x WEIGHT	

E. REINFORCED CONCRETE:

1. MATERIALS

   a. SEE SPECIFICATIONS FOR DETAILED REQUIREMENTS RELATED TO THE CONCRETE TO BE USED ON THIS PROJECT.
   b. STRUCTRUAL CONCRETE OVERVIEW - SEE SPECS FOR SPECIFIC INFO

LOCATION	f'c (PSI)
FOUNDATIONS AND GRADE BEAMS	3000
TYP. INTERIOR CONCRETE	4000
EXTERIOR CONCRETE EXPOSED TO DE-ICING	4500, 6% AIR
BACKFILL BELOW FOOTINGS, CONCRETE FILL IN STRUCTURES	1500

   c. ALL DEFORMED REINFORCING BARS: FY = 60,000 P.S.I.
   d. WELDED WIRE FABRIC: ASTM A185

2. FIELD MANUAL:

   PROVIDE AT LEAST ONE COPY OF THE LATEST ACI FIELD REFERENCE MANUAL, SP-15, IN THE FIELD OFFICE AT ALL TIMES.

3. CONTINGENCIES:

   PROVIDE LEAN CONCRETE UNDER FOUNDATIONS FOR ACCIDENTAL OVER-EXCAVATION, SOFT SPOTS AND TRENCHES.

4. FOOTINGS, PIERS, WALLS AND SLABS:

   a. DOWELS IN FOOTINGS TO MATCH VERTICAL PIER OR WALL REINFORCING, U.N.O.
   b. PROVIDE CORNER BARS AT WALL AND FOOTING CORNERS TO MATCH HORIZONTAL REINFORCING, MINIMUM LENGTH OF EACH LEG - 45 BAR DIAMETERS. (PLACE AS PER DETAILS U.N.O.).
   c. PROVIDE 10 MIL. POLYETHYLENE VAPOR RETARDER AND 6" COMPACTED AGGREGATE SUBBASE MATERIAL ON TOP IN ACCORDANCE WITH THE TYPICAL SLAB DETAILS. UNDER ALL INTERIOR SLABS ON GRADE, VAPOR RETARDER SHALL BE CARRIED TO AND PLACED IN CONTACT W/RIGID INSULATION AT INTERIOR FACE OF EXTERIOR FOUNDATION WALLS. SEE SPECIFICATIONS FOR FURTHER INFORMATION.

5. CONSTRUCTION JOINTS:

   CONSTRUCTION JOINTS PERMITTED ONLY WHERE SHOWN OR AS APPROVED BY THE STRUCTURAL ENGINEER. ALL CONSTRUCTION JOINTS ARE TO BE KEYED.

6. CHAMFER:

   PROVIDE 3/4" CHAMFER AT ALL EXPOSED EDGES OF CONCRETE, U.N.O.

7. MISCELLANEOUS:

   a. SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR OPENINGS AND COORDINATE WORK WITH THE CONSTRUCTION MANAGER AND OTHER TRADES. IF OPENING IS NOT SHOWN ON THE STRUCTURAL DRAWINGS, OBTAIN PRIOR APPROVAL.

8. CONCRETE COVER:

   U.N.O. DETAIL REINFORCING TO PROVIDE MINIMUM CONCRETE COVER AS FOLLOWS:

CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH:	3 IN.
CONCRETE EXPOSED TO EARTH OR WEATHER:	
No. 6 - No. No. 18 BARS	2 IN.
No. 5 BAR, W31 OR D31 WIRE, AND SMALLER	1 1/2 IN.
CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR IN CONTACT WITH GROUND:	
SLABS, WALLS, AND JOISTS:	
No. 14 AND No. 18 BARS	1 1/2 IN.
No. 11 BARS AND SMALLER	3/4 IN.
BEAMS AND COLUMNS:	
PRIMARY REINFORCEMENT, STIRRUPS, TIES AND SPIRALS	1 1/2 IN.
SURFACES EXPOSED TO LIQUIDS:	2 IN.
SLABS ON GRADE - 1/3 SLAB THICKNESS FROM TOP OF SLAB OR AS SHOWN ON DRAWINGS	

TENSION LAP SCHEDULE:
f'c = 3000 PSI TENSION LAP SPLICE LENGTHS (INCHES) - TOP BARS (NOTES 1 AND 2)

BAR COVER (INCHES)	3/4			1 1/2			1 1/2		
BAR SPACING (INCHES)	2 1/2	4	>=6	2 1/2	4	>=6	2 1/2	4	>=6
#4	29	29	29	29	29	29	29	29	29
#5	36	36	36	36	36	36	36	36	36
#6	43	43	43	43	43	43	43	43	43
#7	69	69	69	66	63	63	66	63	63
#8	-	-	-	86	72	72	86	72	72
#9	-	-	-	109	81	63	109	81	81

f'c = 4000 PSI TENSION LAP SPLICE LENGTHS (INCHES) - TOP BARS (NOTES 1 AND 2)

BAR COVER (INCHES)	3/4			1 1/2			1 1/2		
BAR SPACING (INCHES)	2 1/2	4	>=6	2 1/2	4	>=6	2 1/2	4	>=6
#4	25	25	25	25	25	25	25	25	25
#5	31	31	31	31	31	31	31	31	31
#6	37	37	37	37	37	37	37	37	37
#7	60	60	60	57	54	54	57	54	54
#8	-	-	-	74	62	62	74	62	62
#9	-	-	-	94	70	70	94	70	70

NOTES:
1. TOP BARS ARE DEFINED AS HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE CAST BELOW THE BARS.
2. FOR BARS OTHER THAN TOP BARS, DIVIDE DEVELOPMENT LENGTH SPECIFIED IN TABLE BY 1.3.
3. INTERPOLATE FOR SPLICE LENGTHS AS NECESSARY
4. TENSION LAP SPLICES ARE BASED ON CLASS B. FOR CLASS A, DIVIDE BY 1.3. UNLESS NOTED OTHERWISE IN DRAWINGS, ASSUME ALL SPLICES AS CLASS B.
5. IF SPLICE DIMENSION IS INDICATED IN DRAWINGS, PROVIDE LARGER SPLICE LENGTH.
6. LAP SPLICE TABLES ARE BASED ON ACI 318002, SECTIONS 12.2.2, 12.2.3 & 12.14.2
7. VALUES SHOWN IN TABLE MAY BE LOWERED WITH Ktr IF TRANSVERSE REINFORCEMENT EXISTS PER 12.2.3.

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ISSUE

NO.	DATE	DESCRIPTION
	07/12/2024	QC SET

DATE	07/12/24
JOB NO.	2024090
DRAWN	JMR
CHECKED	JMR

TITLE
GENERAL NOTES

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F. LIGHT GAUGE STEEL FRAMING:

1. ALL LIGHT GAUGE METAL STUD FRAMING, INCLUDING HEADERS, SILLS, TRACKS AND OTHER ASSOCIATED FRAMING MEMBERS AND ACCESSORIES, AND THEIR CONNECTIONS TO STRUCTURE IS A DELEGATED DESIGN TO BE PROVIDED BY THE LIGHT GAUGE FRAMING CONTRACTOR. ALL LIGHT GAUGE STRUCTURAL MEMBERS SHALL BE DESIGNED IN ACCORDANCE WITH THE LATEST EDITION OF THE AISI "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS." SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION AND DESIGN REQUIREMENTS. THE LIGHT GAUGE METAL STUD FRAMING AND THE CONNECTIONS TO STRUCTURE SHOWN ON THE STRUCTURAL DRAWINGS ARE PROVIDED FOR DESIGN INTENT ONLY. THE DEPTH OF THE METAL STUDS SHOWN IN THE DETAILS SHALL BE PROVIDED.
2. THE DESIGN OF ALL LIGHT GAUGE FRAMING MEMBERS AND THEIR CONNECTIONS TO STRUCTURE SHALL BE PERFORMED BY A REGISTERED ENGINEER RETAINED BY THE LIGHT GAUGE FRAMING CONTRACTOR. SUBMIT SEALED STRUCTURAL CALCULATIONS FOR REVIEW ALONG WITH THE LIGHT GAUGE FRAMING SHOP DRAWINGS. CONNECTIONS OF ALL FRAMING MEMBERS SHALL BE WITH SELF-DRILLING GALVANIZED SCREWS OR WELDING. SCREWS AND WELDS SHALL BE OF SUFFICIENT SIZE TO RESIST ALL REQUIRED LOADS INCLUDING WIND. ALL WELDS SHALL BE TOUCHED-UP WITH A ZINC-RICH GALVANIZING PAINT.
3. METAL TRACKS SHALL HAVE 1.50-INCH FLANGES AND MATCH THE MATERIAL GAUGE OF THE IN-FRAMING METAL STUDS, U.N.O. THE IN-FRAMING METAL STUDS SHALL BE CONNECTED TO EACH TRACK FLANGE WITH ONE #10 SCREW. FULL HEIGHT BACK-TO-BACK DOUBLE STUDS SHALL BE PROVIDED AT ALL WALL ENDS, CORNERS AND EACH SIDE OF OPENINGS (JAMBS). ALL BOX BEAM HEADERS SHALL BEAR ON AN 18-GAUGE TRIMMER STUD WITH A NESTED TRACK, MINIMUM, U.N.O.
4. METAL STUDS SHALL BE C-SHAPED WITH 50 KSI YIELD STRENGTH FOR 12, 14 AND 16 GAUGE MATERIALS, AND 33 KSI FOR 18 AND 20 GAUGE MATERIALS. FOR ALL METAL STUDS, THE MINIMUM SECTION PROPERTIES SHALL CONFORM TO SSMA GUIDELINES. BRIDGING SHALL BE PROVIDED IN CONFORMANCE WITH THE MANUFACTURER'S SPECIFICATIONS TO OBTAIN THE FULL FLEXURAL CAPACITY OF THE SECTION.
5. ALL STRUCTURAL MEMBERS SHALL BE FORMED FROM CORROSION RESISTANT STEEL, CORRESPONDING TO THE REQUIREMENTS OF ASTM A653. ALL LIGHT GAUGE STEEL MEMBERS SHALL BE ZINC COATED MEETING THE REQUIREMENTS OF ASTM A924. ALL STRUCTURAL LIGHT GAUGE MEMBERS SHALL BE CONSTRUCTED WITH UNPUNCHED SOLID WEBS, UNLESS OTHERWISE NOTED.
6. CONNECTIONS AT LIGHT GAUGE MATERIAL CONSTRUCTED WITH #10 HILTI KWIK-FLEX OR GRABBER SCREWS, UNLESS OTHERWISE NOTED.
7. ALL FRAMING COMPONENTS SHALL BE CUT SQUARELY FOR TIGHT ATTACHMENT TO PERPENDICULAR MEMBERS, OR, AS REQUIRED, FOR AN ANGULAR FIT AGAINST ABUTTING MEMBERS.
8. SPLICES IN FRAMING MEMBERS, OTHER THAN RUNNING TRACK, SHALL NOT BE PERMITTED.
9. WEB STIFFENERS SHALL BE PROVIDED AT REACTION POINTS, AND/OR AT POINTS OF CONCENTRATED LOADS AS REQUIRED.
10. JOIST BRIDGING SHALL BE PROVIDED TO BRACE MEMBERS AS REQUIRED TO DEVELOP FULL MEMBER STRENGTH.
11. END BLOCKING SHALL BE PROVIDED WHERE JOIST ENDS ARE NOT OTHERWISE RESTRAINED FROM ROTATION.
12. STRUCTURAL MEMBERS NOTED SHALL HAVE SECTION PROPERTIES AS INDICATED IN THE "PRODUCT TECHNICAL INFORMATION" DOCUMENT BY STEEL STUD MANUFACTURERS ASSOCIATION (SSMA).

G. PREFABRICATED WOOD TRUSSES:

1. PREFABRICATED WOOD TRUSSES INCLUDE PLANAR STRUCTURAL UNITS CONSISTING OF METAL PLATE CONNECTED MEMBERS WHICH ARE FABRICATED FROM DIMENSION LUMBER AND WHICH HAVE BEEN CUT AND ASSEMBLED PRIOR TO DELIVERY TO THE JOB SITE. TYPES OF PREFABRICATED WOOD TRUSSES INCLUDE: COMMON DOUBLE PITCHED, COMMON SCISSORS, AND COMMON MONOPITCH.
2. DO NOT REMOVE OR CUT ANY TRUSS MEMBERS.
3. DESIGN STANDARDS : DESIGN STANDARDS SHALL CONFORM WITH THE APPLICABLE PROVISION OF THE "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION", PUBLISHED BY NATIONAL FOREST PRODUCTS ASSOCIATION, AND THE "DESIGN SPECIFICATION FOR METAL PLATE CONNECTED WOOD TRUSSES", LATEST EDITIONS, PUBLISHED BY THE TRUSS PLATE INSTITUTE. LIVE LOAD DEFLECTION OF TRUSSES SHALL NOT EXCEED SPAN/360. TOTAL LOAD DEFLECTION OF TRUSSES SHALL NOT EXCEED SPAN/240.
4. ALL GIRDER TRUSSES SHALL BE DESIGNED WITHOUT THE REPETITIVE MEMBER STRESS INCREASE FOR BENDING, REGARDLESS OF THE NUMBER OF PLIES MAKING UP THE TRUSS.
5. INDIVIDUAL TRUSSES SHALL BE DESIGNED FOR COMPONENT AND CLADDING WIND LOAD, EXPOSURE C. TRUSSES SHALL BE DESIGNED FOR THE ACTUAL DEAD LOAD SPECIFIED IN COMBINATION WITH THE DESIGN WIND.
6. CONNECTOR PLATES : ALL CONNECTOR PLATES SHALL BE A MINIMUM THICKNESS OF 0.036" AND SHALL BE MANUFACTURED FROM STEEL MEETING THE REQUIREMENTS OF ASTM A446 GRADE A, AND SHALL BE HOT DIP GALVANIZED ACCORDING TO ASTM A525 COATING DESIGNATION G60. IN HIGHLY CORROSIVE ENVIRONMENTS OR WHEN FIRE RETARDANT LUMBER IS SPECIFIED, STAINLESS STEEL CONNECTOR PLATES ARE REQUIRED IN LIEU OF GALVANIZED.
7. QUALITY CONTROL : LUMBER DEFECTS SUCH AS WANE OR KNOTS OCCURRING IN THE CONNECTOR PLATE AREA MUST NOT AFFECT MORE THAN 10% OF THE REQUIRED PLATE AREA OR NUMBER OF TEETH REQUIRED FOR EACH TRUSS MEMBER. CONNECTOR PLATES SHALL BE APPLIED TO BOTH FACES OF TRUSS AT EACH JOINT, AND SHOULD PROVIDE FIRM EVEN CONTACT BETWEEN THE WOOD AND THE PLATE. ALL WOOD MEMBERS SHALL BE ACCURATELY CUT AND FABRICATED SO THAT ALL MEMBERS HAVE GOOD BEARING AND COMPLETED TRUSS UNITS ARE UNIFORM. SEE THE TRUSS PLATE INSTITUTE "QUALITY STANDARD FOR METAL PLATE CONNECTED WOOD TRUSSES, QST-88" FOR TOLERANCES AND OTHER SPECIAL REQUIREMENTS.
8. ERECTION : ERECT AND BRACE TRUSSES TO COMPLY WITH RECOMMENDATIONS OF MANUFACTURER AND THE TRUSS PLATE INSTITUTE. ERECT TRUSSES WITH PLANE OF TRUSS WEBS VERTICAL (PLUMB) AND PARALLEL TO EACH OTHER, LOCATED ACCURATELY AT SPACINGS INDICATED. HOIST UNITS IN PLACE BY MEANS OF LIFTING EQUIPMENT SUITED TO SIZES AND TYPES OF TRUSSES REQUIRED, APPLIED AT DESIGNATED LIFT POINTS AS RECOMMENDED BY FABRICATOR, EXERCISING CARE NOT TO DAMAGE TRUSS MEMBERS OR JOINTS BY OUT-OF-PLANE BENDING OR OTHER CAUSES.
9. FABRICATORS QUALIFICATIONS : PROVIDE TRUSSES BY A FIRM WHICH HAS A RECORD OF SUCCESSFULLY FABRICATING TRUSSES SIMILAR TO TYPE INDICATED AND WHICH COMPLIES WITH THE FOLLOWING REQUIREMENTS FOR QUALITY CONTROL: FABRICATOR PRACTICES A QUALITY CONTROL PROGRAM WHICH COMPLIES WITH, OR IS COMPARABLE TO, ONE PUBLISHED IN TPI "QUALITY CONTROL STANDARD" AND WHICH INVOLVES INSPECTION BY AN INDEPENDENT INSPECTION AND TESTING AGENCY ACCEPTABLE TO THE ENGINEER AND AUTHORITIES HAVING JURISDICTION.
10. BRACING : ALL TRUSSES MUST BE SECURELY BRACED BOTH DURING ERECTION AND AFTER PERMANENT INSTALLATION IN A BUILDING IN ACCORDANCE WITH "RECOMMENDED DESIGN SPECIFICATION FOR TEMPORARY BRACING OF METAL PLATE CONNECTED WOOD TRUSSES, DSB-89" AND "HANDLING INSTALLING & BRACING OF METAL PLATE CONNECTED WOOD TRUSSES, HIB-89" AS PUBLISHED BY TRUSS PLATE INSTITUTE. ERECTION BRACING SHALL HOLD TRUSSES STRAIGHT AND PLUMB AND IN SAFE CONDITION UNTIL DECKING AND PERMANENT TRUSS BRACING HAS BEEN FASTENED FORMING A STRUCTURALLY SOUND ROOF FRAMING SYSTEM. ALL ERECTION AND PERMANENT BRACING SHALL BE INSTALLED AND ALL TRUSSES PERMANENTLY FASTENED BEFORE APPLICATION OF ANY LOADS. PERMANENT STRUCTURAL BRACING TO ENSURE OVERALL RIGIDITY OF THE ROOF SYSTEM SHALL BE IN ACCORDANCE WITH THE ARCHITECTURAL/ENGINEERING PLANS FOR THE BUILDING STRUCTURE AND THE TRUSS DESIGN DRAWINGS. SEE TRUSS DESIGN DRAWINGS FOR ANY ADDITIONAL SPECIAL BRACING REQUIREMENTS. DESIGN OF ALL PERMANENT BRACING AND ANCHORAGES SHALL BE BY THE TRUSS DESIGNER. MATERIALS USED IN BRACING ARE TO BE FURNISHED BY THE ERECTION CONTRACTOR.
11. SHOP DRAWINGS: SUBMIT SHOP DRAWINGS SHOWING SPECIES, SIZES AND STRESS GRADES OF LUMBER TO BE USED; PITCH, SPAN, CAMBER, CONFIGURATION, AND SPACING FOR EACH TYPE OF TRUSS REQUIRED, TYPE, SIZE, MATERIAL, FINISH, DESIGN VALUE, AND LOCATION OF METAL PLATES, INCLUDING BEARING AND ANCHORAGE DETAILS. PROVIDE SHOP DRAWINGS WHICH HAVE BEEN SIGNED AND SEALED BY A STRUCTURAL ENGINEER LICENSED TO PRACTICE IN THE STATE WHERE TRUSSES ARE TO BE INSTALLED. SHOP DRAWINGS SHALL BE SUBMITTED TO THE BUILDING OFFICIAL HAVING JURISDICTION, FOR REVIEW AND APPROVAL PRIOR TO THIS WORK COMMENCING.

H. ROUGH CARPENTRY:

1. FRAMING LUMBER SHALL COMPLY WITH THE LATEST EDITION OF THE "NATIONAL DESIGN SPECIFICATION" (NDS), AMERICAN FOREST & PAPER ASSOCIATION / AMERICAN WOOD COUNCIL.
2. ALL SAWN LUMBER SHALL BE STAMPED WITH THE GRADE WORK OF A CERTIFIED LUMBER GRADING AGENCY. MOISTURE CONTENT SHALL NOT EXCEED 19%. ALL SAWN LUMBER SHALL BE SPRUCE-PINE-FIR OR SOUTHERN PINE.
3. SAWN LUMBER:
   SMALLER DIMENSION <4x NOMINAL: NO. 2 & BETTER
   SMALLER DIMENSION >4x NOMINAL: NO. 1 & BETTER
4. WOOD STRUCTURAL PANELS: ALL PANELS SHALL CONFORM TO NER-108 AND BEAR THE STAMP OF THE APA OR AN APPROVED GRADING AGENCY WITH THE FOLLOWING SPAN RATINGS:
   WALLS: 1/2" NOMINAL THICKNESS (15/32" MIN.) - 32/16, SHEATHING
   NAILS: 8d COMMON @ 6" O.C. - EDGES (UNO)
   8d COMMON @ 12" O.C. - FIELD (UNO)
   ROOF: 5/8" NOMINAL THICKNESS (19/32" MIN.) - 40/20, SHEATHING
   NAILS: 8d COMMON @ 6" O.C. - EDGES (UNO)
   8d COMMON @ 12" O.C. - FIELD (UNO)
   FLOOR: 3/4" NOMINAL THICKNESS (23/32" MIN.) - 24" O.C. T&G
   STURD-I-FLOOR OR 48/24, T&G, SHEATHING
   GLUE & NAIL: 10d COMMON @ 6" O.C. - EDGES (UNO)
   10d COMMON @ 10" O.C. - FIELD (UNO)
   PROVIDE BLOCKING AT WALL PANEL EDGES AND AS DESIGNATED ON THESE DRAWINGS.
5. FRAMING ANCHORS: "SIMPSON" OR APPROVED EQUAL. INSTALL AS PER MANUFACTURER'S RECOMMENDATIONS.
6. FOR NAILING NOT SHOWN ON THESE DRAWINGS, USE IBC NAILING SCHEDULE, TABLE 2304.9.1.
7. STRUCTURAL MEMBERS SHALL NOT BE CUT FOR PIPES, DUCTS, ETC., UNLESS SPECIFICALLY NOTED, DETAILED OR APPROVED IN WRITING BY THE ENGINEER.
8. ALL EXPOSED MEMBERS OR MEMBERS IN CONTACT WITH CONCRETE SHALL BE PRESERVATIVE-TREATED WOOD STAMPED BY AN APPROVED AGENCY.
9. ALL STEEL, FASTENERS, AND CONNECTORS IN CONTACT WITH WOOD THAT HAS ACQ FORMULATION PRESERVATIVE TREATMENT WITHOUT AMMONIA SHALL BE GALVANIZED (G185) PER ASTM A653 AND ASTM A153 OR TYPE 316L STAINLESS STEEL. ALL STEEL, FASTENERS, AND CONNECTORS IN CONTACT WITH WOOD THAT HAS ACQ FORMULATION PRESERVATIVE TREATMENT WITH AMMONIA SHALL BE TYPE 316L STAINLESS STEEL.
10. ALL NON-BEARING WALLS BELOW FRAMING SHALL BE SLIP CONNECTED TO ALLOW FOR POTENTIAL FRAMING DEFLECTION AND UPLIFT.

J. PROPRIETARY PRODUCTS:

1. ENGINEERED WOOD MATERIALS SHALL CONFORM TO THE FOLLOWING:
   a. LAMINATED VENEER LUMBER (LVL) - Fb = 2600 PSI, E = 1.9 x 10^6 PSI, Fv = 285 PSI MINIMUM. PARALLEL STRAND LUMBER (PSL) MAY BE SUBSTITUTED FOR LVL PRODUCTS WITH EQUIVALENT SIZES AS LONG AS ABOVE MINIMUM PROPERTIES ARE MAINTAINED.
   b. LAMINATED STRAND LUMBER (LSL):
      BEAM, STUD, JOIST (1.55E): Fb =2325 PSI, E = 1.55 x 10^6 PSI, Fv = 310 PSI MINIMUM. LVL OR PSL MAY NOT BE SUBSTITUTED FOR LSL PRODUCTS, UNLESS APPROVED IN WRITING BY THE ENGINEER.
      RIM BOARD (1.3E): Fb = 1700 PSI, E = 1.3 x 10^6 PSI, Fv = 400 PSI MINIMUM. LVL OR PSL MAY NOT BE SUBSTITUTED FOR LSL PRODUCTS, UNLESS APPROVED IN WRITING BY THE ENGINEER.
2. MULTIPLE PLIES OF MATERIAL MAY BE USED TO ACHIEVE THE TOTAL WIDTH INDICATED ON DRAWINGS. PLIES MUST BE JOINED TO FORM A SINGLE MEMBER AS REQUIRED BY THE MANUFACTURER OR AS DETAILED.

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GENERAL NOTES

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S0.2

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TABLE 1705.3 REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD	IBC REFERENCE
1. INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT.	- -	x	ACI 318: Ch. 20, 25.2, 25.3, 26.6.1-26.6.3	1908.4
2. REINFORCING BAR WELDING:				
a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706;	- -	x	AWS D1.4 ACI 318: 26.6.4	- -
b. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16";	- -	x		
c. INSPECT ALL OTHER WELDS.	x	- -		
3. INSPECT ANCHORS CAST IN CONCRETE.	- -	x	ACI 318: 17.8.2	- -
4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS.				
a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINDED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.	x	- -	ACI 318: 17.8.2.4	- -
b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT IDENTIFIED IN 4.a	- -	x	ACI 318: 17.8.2	
5. VERIFY USE OF REQUIRED DESIGN MIX.	- -	x	ACI 318: Ch. 19, 26.4.3, 26.4.4	1904.1, 1904.2 1908.2, 1908.3
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	x	- -	ASTM C172, ASTM C31 ACI 318: 26.4, 26.12	1908.10
7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	x	- -	ACI 318: 26.5	1908.6 - 1908.8
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	- -	x	ACI 318: 26.5.3-26.5.5	1908.9
9. INSPECT PRE-STRESSED CONCRETE FOR:				
a. APPLICATION OF PRE-STRESSING FORCES;	x	- -	ACI 318: 26.10	- -
b. GROUTING OF BONDED PRE-STRESSING TENDONS	x	- -		
10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.	- -	x	ACI 318: 26.9	- -
11. VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STUCTURAL SLABS.	- -	x	ACI 318: 26.11.2	- -
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	- -	x	ACI 318: 26.11.1.2(b)	- -

TABLE 1705.6 REQUIRED SPECIAL INSPECTIONS AND TESTS OF SOILS

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	- -	x
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	- -	x
3. PERFOM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	- -	x
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	x	- -
5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	- -	x

SPECIAL INSPECTION PROGRAM NOTES:

1. PERIODIC INSPECTION FREQUENCY DETERMINED BY THE DESIGN PROFESSIONAL, UNLESS NEEDED OTHERWISE.
2. CONTINUOUS OR PERIODIC SELECTION TO BE MADE BY THE DESIGN PROFESSIONAL BASED ON BUILDING CATEGORY AND DESIGN METHODOLOGY. SPECIAL INSPECTION/TESTING PROGRAM.
3. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE TO THE SATISFACTION OF THE BUILDING OFFICIAL FOR THE INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION STIPULATED.
4. IF NECESSARY, THE CONTRACTOR SHALL ARRANGE A PRE-CONSTRUCTION MEETING WITH THE ARCHITECT, ENGINEER, BUILDING OFFICIAL, AND TESTING AGENCY TO REVIEW THE SPECIAL INSPECTION REQUIREMENTS.
5. DUTIES OF THE SPECIAL INSPECTOR INCLUDE, BUT ARE NOT LIMITED TO:

   A. ACKNOWLEDGE AND CONFORM TO THE SPECIAL INSPECTION REQUIREMENTS OF OBC.

   B. THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK FOR CONFORMANCE WITH THE APPROVED PERMIT PLANS AND SPECIFICATIONS. ALL DISCREPANCIES SHALL BE BROUGHT TO IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN, IF UNCORRECTED, TO THE ATTENTION OF THE ARCHITECT, THE ENGINEER AND THE BUILDING OFFICIAL.

   C. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS FOR EACH INSPECTION TO THE CONTRACTOR, THE ARCHITECT, THE ENGINEER AND THE BUILDING OFFICIAL AS A MINIMUM. THE REPORTS SHALL BE DISTRIBUTED IN A TIMELY MANNER.

   D. INSPECTION FOR PREFABRICATED COMPONENTS SHALL BE THE SAME AS IF THE MATERIAL WAS INSTALLED ON SITE. CONTINUOUS INSPECTION SHALL NOT BE REQUIRED DURING THE PREFABRICATION IF THE APPROVED AGENCY CERTIFIES THE CONSTRUCTION AND FURNISHES EVIDENCE OF COMPLIANCE.

   E. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL REPORT STATING WHETHER THE WORK REQUIRING INSPECTION WAS INSPECTED AND WHETHER THE WORK WAS COMPLETED IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATION AND IN CONFORMANCE WITH ANY APPLICABLE WORKMANSHIP PROVISIONS OF THE APPLICABLE CODE.

6. SPECIAL INSPECTION AND TESTING REQUIREMENTS APPLY EQUALLY TO ALL BIDDER DESIGNED COMPONENTS.

A
A/E - ARCHITECT/ENGINEER
AB - ANCHOR BOLT/ROD
AFF - ABOVE FINISH FLOOR
ARCH. - ARCHITECT (URAL)
B
BFF - BELOW FINISH FLOOR
BLK - BLOCK (ING)
BM - BEAM
BRG - BEARING
BU - BUILT UP
B/ - BOTTOM OF
C
CAM (C=) - CAMBER
CIP - CAST-IN-PLACE
CJ - CONTROL JOINT
CL - CENTERLINE
CLR - CLEAR
CMU - CONCRETE MASONRY UNIT
COL - COLUMN
CONC - CONCRETE
CONN - CONNECT (ION)
CONT - CONTINUOUS
CONTR - CONTRACT (OR)
CTR - CENTER
CU - CUBIC
D
D - DEEP, DEPTH
DBL - DOUBLE
DEMO - DEMOLITION, DEMOLISH
DET - DETAIL
DIA - DIAMETER
DIAG - DIAGONAL, DIAGRAM
DIM - DIMENSION
DIR - DIRECTION
DL - DEAD LOAD
DR - DRAIN
DWG - DRAWING
E
EA - EACH
EF - EACH FACE
EJ - EXPANSION JOINT
EL, ELEV - ELEVATION
EMBED - EMBEDMENT
EQ - EQUAL
EST - ESTIMATE
EW - EACH WAY
EQUIP - EQUIPMENT
EXP - EXPANSION
EXT - EXTERIOR
F
FD - FLOOR DRAIN
FF - FINISHED FLOOR
FIN - FINISH (ED)
FLG - FLANGE
FLR - FLOOR (ING)
FOC - FACE OF CONCRETE
FOM - FACE OF MASONRY
FOS - FACE OF STUD
FOW - FACE OF WALL
FS - FAR SIDE
FT - FOOT, FEET
FTG - FOOTING
FRMG - FRAMING
FUT - FUTURE
G
GA - GAGE, GAUGE
GALV - GALVANIZED
GC - GENERAL CONTRACTOR
GEN - GENERAL
GL - GRADE LINE
GLU-LAM - GLUE-LAMINATED BEAM
GR BM - GRADE BEAM
GYP BD - GYPSUM BOARD
H
H - HIGH
HAS - HEADED ANCHOR STUD
HC - HOLLOW CORE
HDR - HEADER
HGR - HANGER
HORIZ - HORIZONTAL
HR - HANDRAIL
HS - HIGH STRENGTH
HSB - HIGH STRENGTH BOLT
HSS - HOLLOW STRUCTURAL SHAPE
HT - HEIGHT

I
ID - INSIDE DIAMETER
INCL - INCLUDING
INT - INTERIOR
J
JST - JOIST
JT - JOINT
K
K - KIPS (1000 lbs.)
KCJ - KEYED CONSTRUCTION JOINT
KLF - KIPS PER LINEAR FOOT
KSF - KIPS PER SQUARE FOOT
KSI - KIPS PER SQUARE INCH
L
L - ANGLE
LL - DOUBLE ANGLE
LBS - POUNDS
LG - LONG
LL - LIVE LOAD
LLH - LONG LEG HORIZONTAL
LLV - LONG LEG VERTICAL
LOC - LOCATION
LONG - LONGITUDINAL
LSL - LAMINATED STRAND LUMBER
LT WT - LIGHT WEIGHT
LVL - LAMINATED VENEER LUMBER
M
MATL - MATERIAL
MAX - MAXIMUM
MBR - MEMBER
MC - MISCELLANEOUS CHANNEL
MECH - MECHANICAL
MEZZ - MEZZANINE
MFD - MANUFACTURED
MFR - MANUFACTURER
MIN - MINIMUM
MISC - MISCELLANEOUS
MTL - METAL
N
NA - NOT APPLICABLE
NIC - NOT IN CONTRACT
NO - NUMBER
NOM - NOMINAL
NS - NEAR SIDE
NTS - NOT TO SCALE
O
OC - ON CENTER
OD - OUTSIDE DIAMETER
OH DR - OVERHEAD DOOR
OPNG - OPENING
OPP - OPPOSITE
OSB - ORIENTED STRAND BOARD
OVS - OVERSIZED
P
PAF - POWDER ACTUATED FASTENER
PCF - POUNDS PER CUBIC FOOT
PL - PLATE
PLF - POUNDS PER LINEAR FOOT
PLYWD - PLYWOOD
PNL - PANEL
PR - PAIR, PIPE RAIL
PRCST - PRECAST
PREFAB - PREFABRICATED
PSF - POUNDS PER SQUARE FOOT
PSI - POUNDS PER SQUARE INCH
PT - POST TENSION (ED), PRESSURE TREATED
R
R - RADIUS
RCP - REINFORCED CONCRETE PIPE
RD - ROOF DRAIN
REF - REFERENCE
REINF - REINFORCING
REQ'D - REQUIRED
REV - REVISION
RO - ROUGH OPENING

S
SCHED - SCHEDULE
SECT - SECTION
SHT - SHEET
SHTHG - SHEATHING
SIM - SIMILAR
SL - SNOW LOAD
SLV - SLEEVE
SOG - SLAB-ON-GRADE
SPEC - SPECIFICATION
SQ - SQUARE
SSL - SHORT SLOTTED
SST - STAINLESS STEEL
STD - STANDARD
STIF - STIFFENER
STL - STEEL
SUSP - SUSPENDED
SW - SHEAR WALL
SYMM - SYMMETRICAL
T
T&B - TOP AND BOTTOM
T&G - TONGUE AND GROOVE
TBD - TO BE DETERMINED
THK - THICK (NESS)
TL - TOTAL LOAD
TO - TOP OF
TOB - TOP OF BEAM
TOC - TOP OF CONCRETE
TOCW - TOP OF CONCRETE WALL
TOF - TOP OF FOOTING
TOM - TOP OF MASONRY
TOS - TOP OF STEEL
TOW - TOP OF WALL
TRANS - TRANSVERSE
TYP - TYPICAL
U
UNO - UNLESS NOTED OTHERWISE
V
V - SHEAR
VERT - VERTICAL
VIF - VERIFY IN FIELD
VR - VAPOR RETARDER
VRFY - VERIFY
W
W - WIDTH
W/ - WITH
W/O - WITHOUT
WD - WOOD
WF - WIDE FLANGE
WL - WIND LOAD
WLD - WELD (ED)
WP - WATERPROOFING, WORK POINT
WS - WATERSTOP
WT - WEIGHT
WWF - WELDED WIRE FABRIC
Y
YD - YARD

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SPECIAL INSPECTIONS

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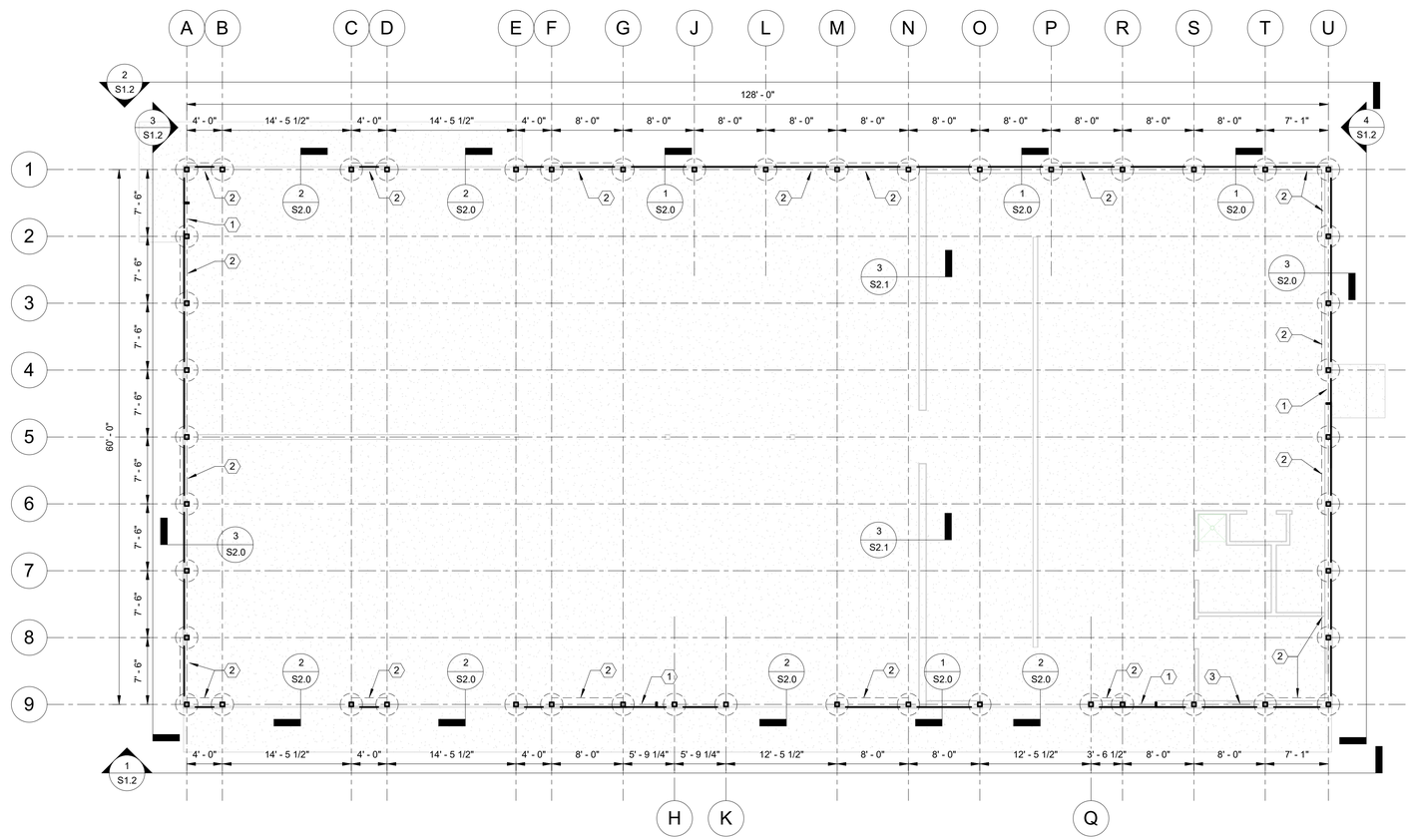

1 FOUNDATION PLAN
1/8" = 1'-0"

FOUNDATION NOTES:

1. PROVIDE 5" SLAB-ON-GRADE REINFORCED WITH 6x6 - W2.1xW2.1 W.W.F. OVER 6" COMPACTED GRANULAR BASE & 10 MIL VAPOR BARRIER. TOP OF SLAB ELEVATION = 100'-0". PROVIDE CONTROL JOINTS IN SLAB AT 12'-6" O.C. MAX.
2. TOP OF CONCRETE FOOTING = 96'-0".
3. REFER TO ARCH. DRAWINGS FOR EXACT LOCATION OF DOORS & WINDOWS.
4. REFER TO ARCH. DRAWINGS FOR LOCATION OF FLOOR DRAINS. AT TRENCH DRAIN LOCATIONS, THICKEN SLAB AS REQUIRED TO MAINTAIN 5" CONCRETE COVER AROUND DRAIN. INSTALL #4 x 8" LONG DOWELS AT 24" O.C. AROUND PERIMETER OF TRENCH DRAIN CONSTRUCTION JOINT (4" EPOXY EMBEDMENT).

PLAN NOTES:

1. SEE 2/S2.1 FOR DETAIL AT MAN-DOORS.
2. LOCATION OF 2x6 DIAGONAL BRACING - REFER TO SHEET S1.2 FOR WALL ELEVATIONS. PROVIDE (2) 16d NAILS AT POST CONNECTIONS. PROVIDE (2) 10d NAILS AT ALL BEAM, GIRT, & SKIRT BOARD CONNECTIONS.
3. SEE 1/S2.1 FOR DETAIL AT WINDOWS.

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FOUNDATION PLAN

SHEET NO.
S1.0

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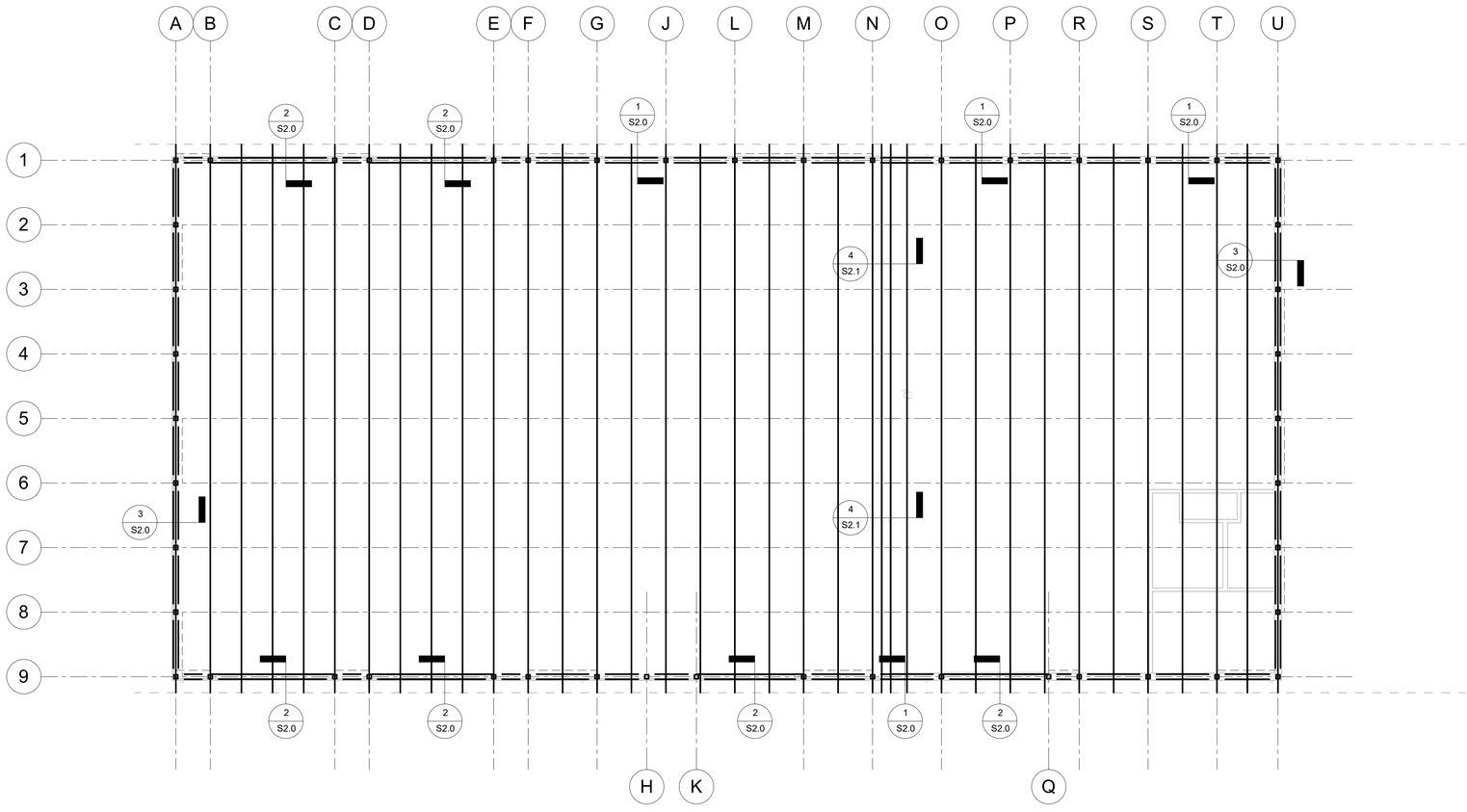

1 ROOF FRAMING PLAN
1/8" = 1'-0"

FRAMING NOTES:

1. TRUSS BEARING ELEVATION = 116'-0".
2. DESIGN ROOF TRUSSES FOR 20 PSF DEAD LOAD (10 PSF BOTTOM CHORD & 10 PSF TOP CHORD) PLUS 25 PSF LIVE LOAD (TOP CHORD ONLY). LIMIT TOTAL DEFLECTION TO SPAN/240. SPACE TRUSSES NO FARTHER APART THAN 4'-0".

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ROOF FRAMING PLAN

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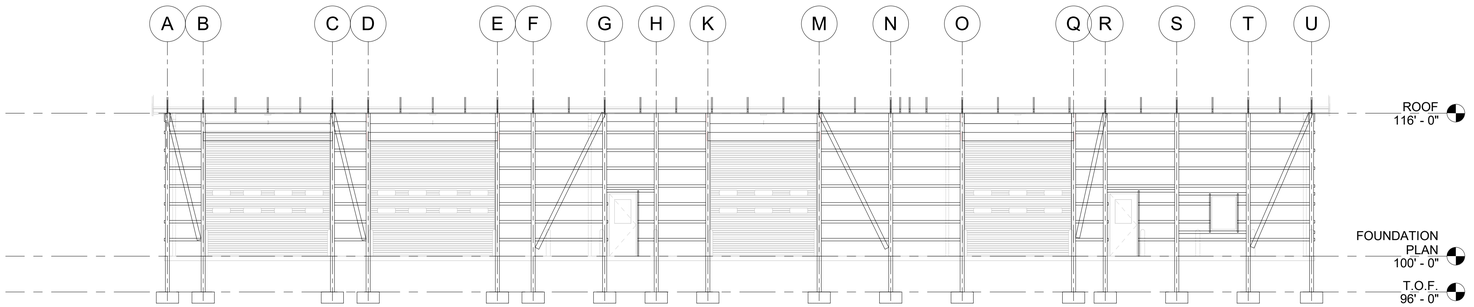
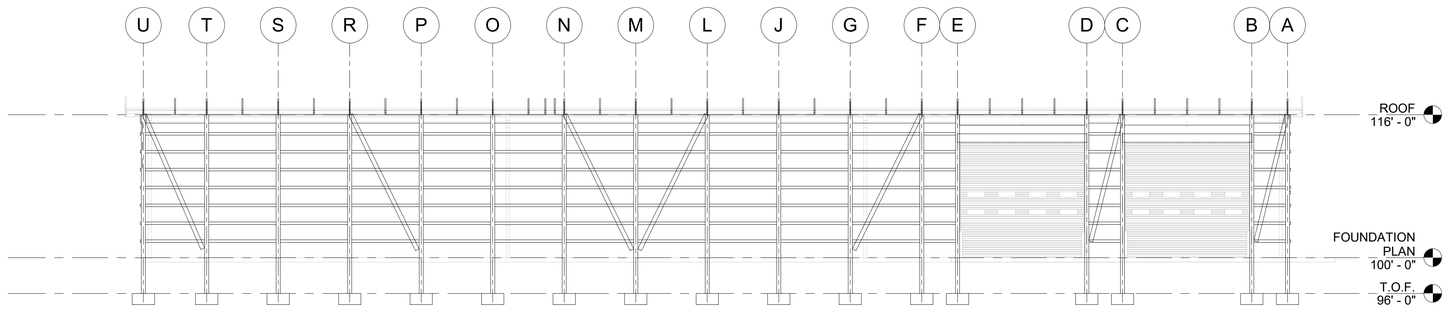
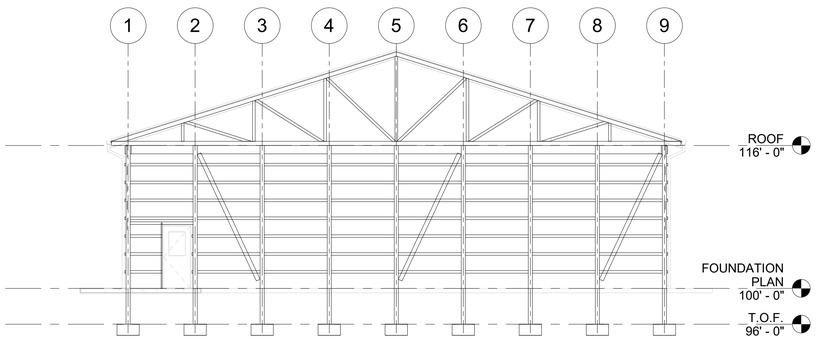


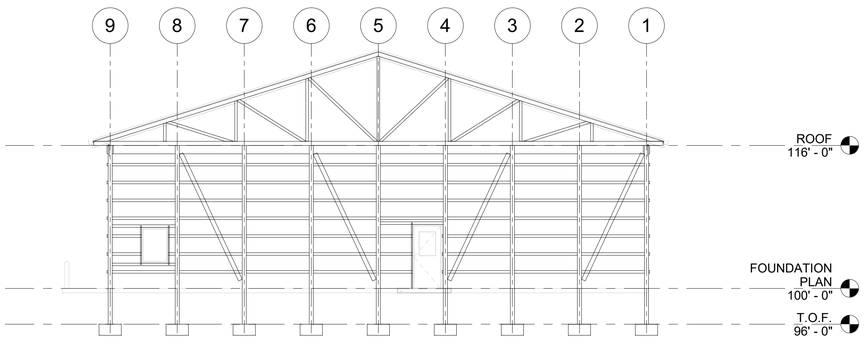
1 WALL SECTION 1
1/8" = 1'-0"



2 WALL SECTION 2
1/8" = 1'-0"



3 WALL SECTION 3
1/8" = 1'-0"



4 WALL SECTION 4
1/8" = 1'-0"

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WALL ELEVATIONS

SHEET NO.
S1.2

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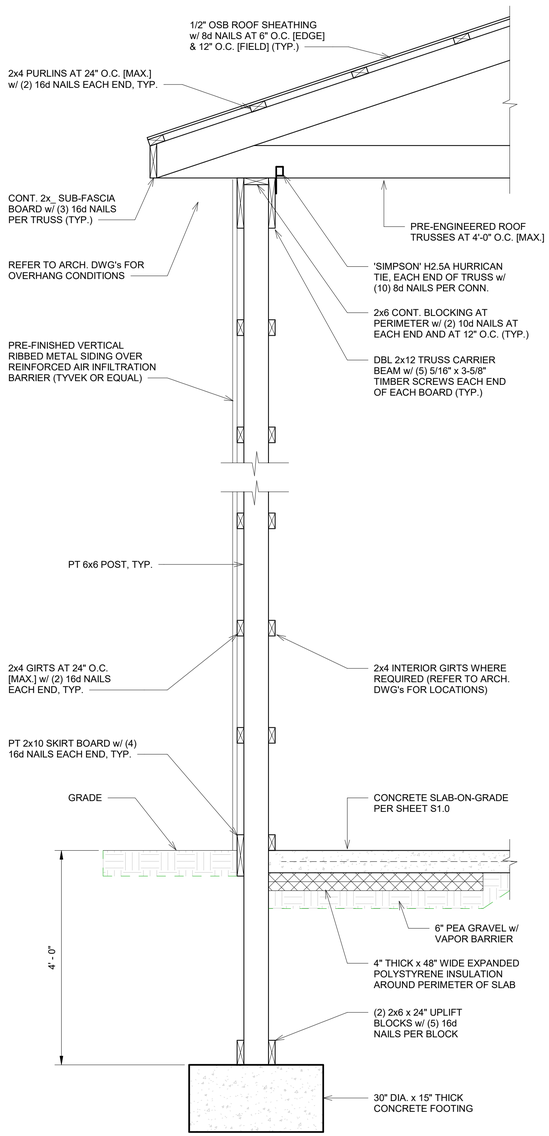
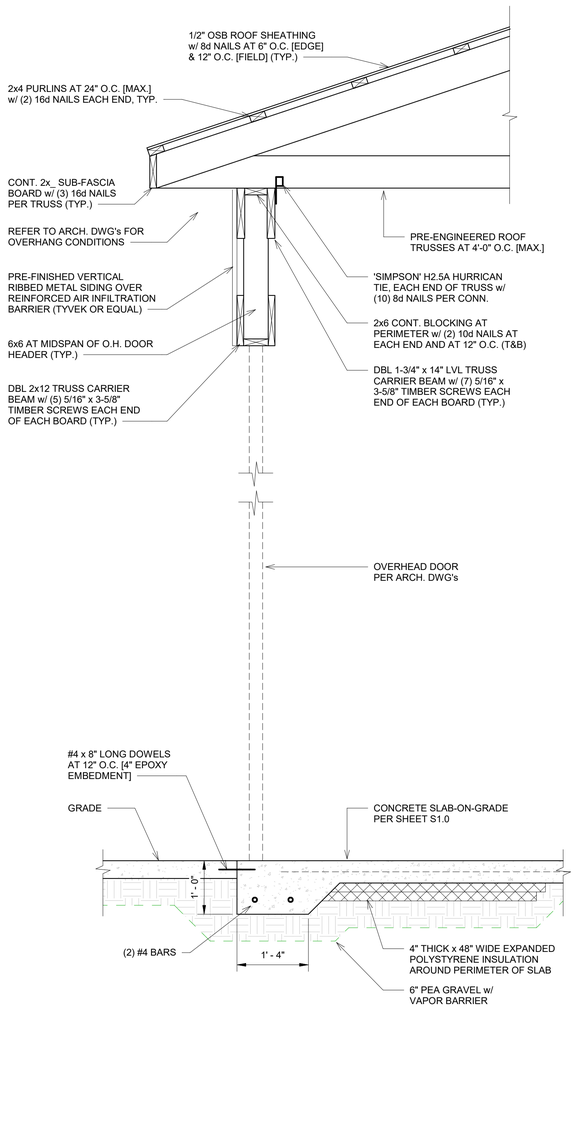
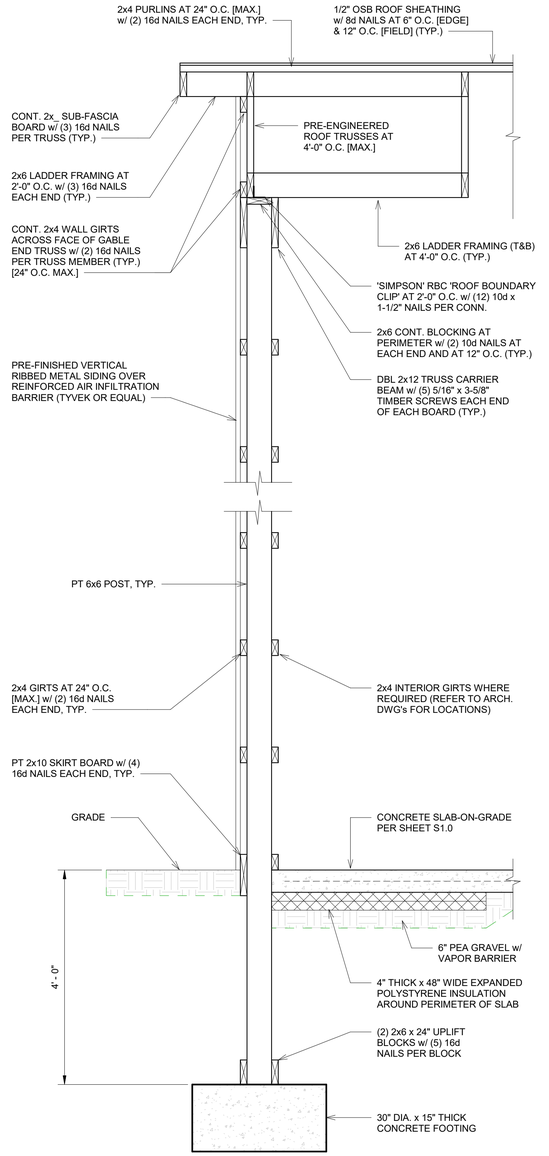


1 WALL SECTION - TRUSS BEARING AT POST
3/4" = 1'-0"



2 WALL SECTION - TRUSS BEARING AT O.H. DOOR
3/4" = 1'-0"



3 WALL SECTION - GABLE END
3/4" = 1'-0"

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WALL SECTIONS

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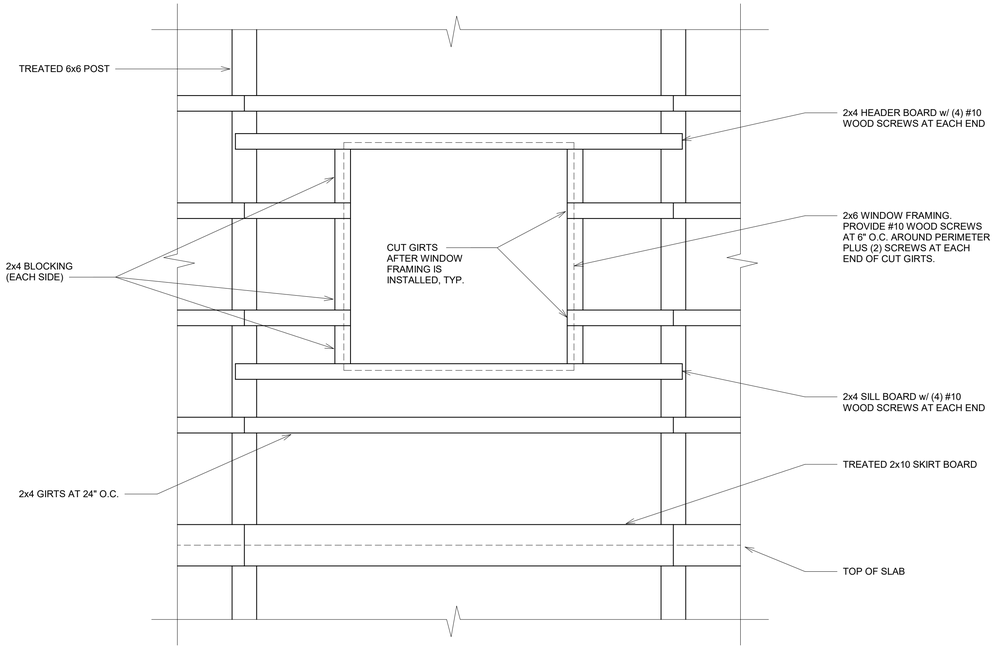
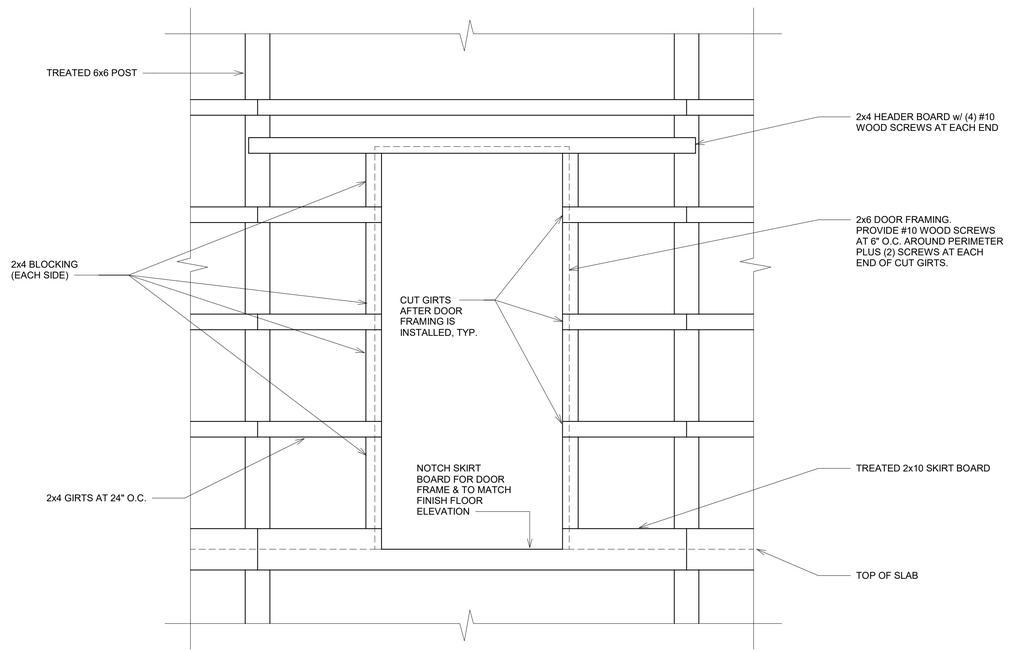
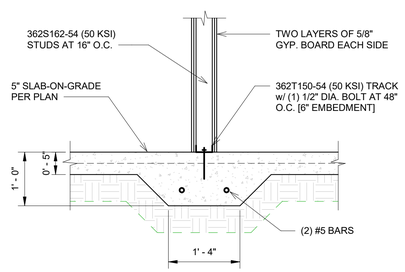


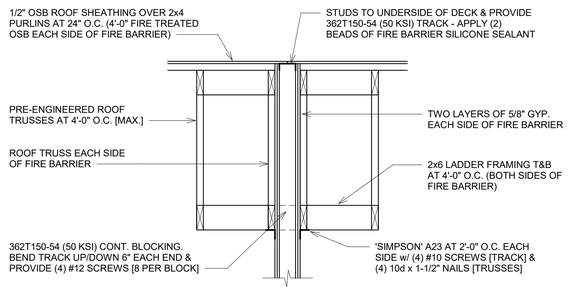
1 TYP. DETAIL - WINDOW FRAMING
3/4" = 1'-0"



2 TYP. DETAIL - DOOR FRAMING
3/4" = 1'-0"



3 FOUNDATION DETAIL - BASE OF FIRE BARRIER
3/4" = 1'-0"



4 FRAMING DETAIL - TOP OF FIRE BARRIER
3/4" = 1'-0"

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www.app-arch.com

STATE OF OHIO
JONATHAN MICHAEL REIS
PE-77926
REGISTERED PROFESSIONAL ENGINEER

NEW POLE BARN
SPRINGFIELD MASONIC COMMUNITY
2655 W. NATIONAL RD. SPRINGFIELD, OHIO 45504

ISSUE

NO.	DATE	DESCRIPTION
	07/12/2024	QC SET

DATE	07/12/24
JOB NO.	2024090
DRAWN	JMR
CHECKED	JMR

TITLE
STRUCTURAL DETAILS

SHEET NO.
S2.1

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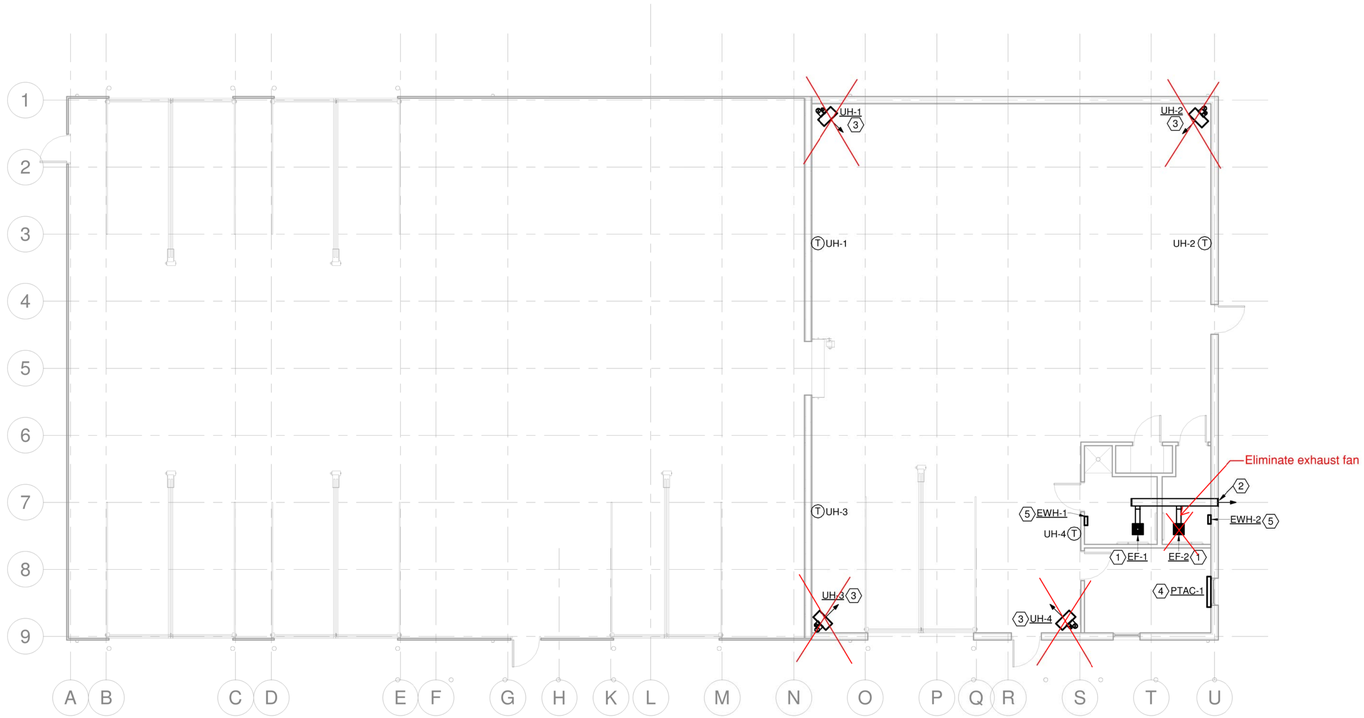
DRAWING NOTES

1. CEILING EXHAUST FAN TO BE CONTROLLED BY LIGHT SWITCH, SEE FAN SCHEDULE. COORDINATE WIRING REQUIREMENTS WITH E.C.
2. FAN TO DISCHARGE OUT WALL LOUVER, GREENHECK MODEL WC-8. COLOR SELECTION BY ARCHITECT.
3. GAS FIRED UNIT HEATER, SEE SCHEDULE. HEATER TO VENT THRU ROOF, PROVIDE CONCENTRIC VENT KIT. INSTALL PER MANUFACTURER'S GUIDELINES.
4. PACKAGE TERMINAL AIR CONDITIONER, SEE SCHEDULE. INSTALL PER MANUFACTURER'S GUIDELINES.
5. ELECTRIC WALL HEATER.



① FIRST FLOOR HVAC PLAN
1/8" = 1'-0"

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SPRINGFIELD MASONIC COMMUNITY

NEW POLE BARN

2655 W. NATIONAL RD. SPRINGFIELD, OHIO 45504

ISSUE

NO.	DATE	DESCRIPTION

DATE	07/12/24
JOB NO.	2024090
DRAWN	GLV
CHECKED	DST

TITLE
HVAC FLOOR PLAN

SHEET NO.
H1.0

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GENERAL LIGHTING/POWER NOTES

1. LIGHT FIXTURES DESIGNATED AS "NIGHT LIGHTS" SHALL BE ON UNSWITCHED CIRCUIT, UNLESS NOTED.
2. EXIT LIGHTS SHALL BE ON UNSWITCHED CIRCUIT, UNLESS NOTED.
3. ALL RECESSED DOWNLIGHTS MOUNTED IN GRID CEILING SHALL BE CENTERED IN CEILING TILE, UNLESS NOTED.
4. IN ALL MECHANICAL ROOMS, COORDINATE EXACT LOCATION OF LIGHT FIXTURES WITH HVAC DUCTWORK.
5. CONDUCTORS FOR BRANCH CIRCUITRY ARE #12 AWG MINIMUM, UNLESS NOTED. DERATE PER CODE WHERE CIRCUITS ARE COMBINED.
6. ALL HOMERUN CONDUCTORS BACK TO PANEL SHALL BE #10 AWG MINIMUM, UNLESS NOTED. PROVIDE A GREEN GROUND CONDUCTOR IN ALL BRANCH CIRCUITRY. DERATE PER CODE WHERE CIRCUITS ARE COMBINED.
7. ALL CONDUIT DROPS FOR PLENUM RATED CABLES SHALL BE PROVIDED WITH A CONDUIT BUSHING ABOVE CEILING.
8. WHERE TERMINATED IN J-BOX, ALL SPARE CIRCUITRY SHALL BE LABELED WITH PANEL AND CIRCUIT NUMBER.
9. COORDINATE WITH MECHANICAL CONTRACTOR AND PROVIDE ALL NECESSARY AUXILIARY CONTACTS, RELAY, ETC. IN MOTOR STARTERS FOR REQUIRED CONTROL OF MECHANICAL EQUIPMENT.
10. DO NOT SUPPORT CONDUIT OFF OF CEILING GRID, CEILING GRID SUPPORTS, MECHANICAL SUPPORTS, OR ANY OTHER TRADE'S SUPPORTS. INSTALL CONDUITS AND BOXES ON SEPARATE SUPPORTS FROM BAR JOIST OR STRUCTURE.
11. ALL STANDARD RECEPTACLES MUST BE TAMPER-RESISTANT (TR) TYPE. THESE INCLUDE A BUILT-IN SAFETY FEATURE THAT PREVENTS CHILDREN FROM STICKING ITEMS INTO THE RECEPTACLE SLOTS.

ABBREVIATIONS

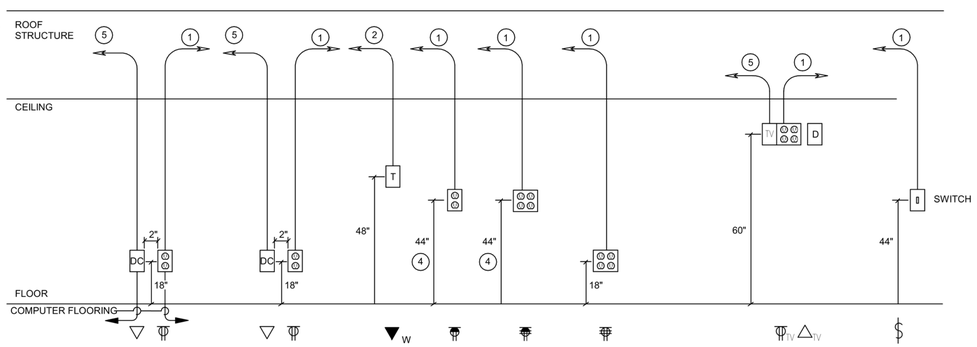
A	AMPS
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
BKR	BREAKER
C	CONDUIT
CATV	CABLE TELEVISION
CUH	CABINET UNIT HEATER
CKT	CIRCUIT
Cu	COPPER
E	EXISTING
EF	EXHAUST FAN
ELEC	ELECTRICAL
EM	EMERGENCY
EMT	EMERGENCY METALLIC TUBING
FCU	FAN COIL UNIT
G	GROUND
GFI	GROUND FAULT INTERRUPTER
GRC	GALVANIZED RIGID CONDUIT
HP	HORSEPOWER
J	JUNCTION BOX
KVA	KILOVOLT AMPERE
KW	KILOWATTS
LGTG	LIGHTING
MECH	MECHANICAL
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NTS	NOT TO SCALE
PVC	POLYVINYL CHLORIDE
P	PHASE (POLE)
TTB	TELEPHONE TERMINAL BOX
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
UV	UNIT VENTILATOR
V	VOLTS
VAV	VARIABLE AIR VOLUME
VIF	VERIFY IN FIELD
W	WATTS
WC	WATER COOLER
WP	WEATHERPROOF
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE

GENERAL PROJECT NOTES

1. WORK SHALL BE DONE IN ACCORDANCE WITH LOCAL, STATE OF OHIO, 2023 NEC AND NATIONAL CODES, RECOMMENDATIONS, REGULATIONS, AND REQUIREMENTS.
2. COORDINATE ELECTRICAL REQUIREMENTS FOR NEW WORK WITH THE PLUMBING AND MECHANICAL CONTRACTORS. VERIFY VOLTAGE, PHASE AND ACCESSORY REQUIREMENTS, SUCH AS MOTOR STARTERS AND DISCONNECTS.
3. CONTRACTOR SHALL PERFORM ALL CUTTING AND PATCHING AS REQUIRED FOR HIS WORK. OPENING IN WALLS, FLOORS AND CEILINGS SHALL BE FILLED IN, PATCHED, PAINTED AND FINISHED IN A MANNER TO MATCH THE QUALITY OF THE EXISTING, LIKE ADJACENT SURFACES.
4. NEW OPENINGS IN EXISTING WALLS AND FLOORS SHALL BE CORE DRILLED OR SAW CUT. OPENINGS IN NEW WALLS AND FLOORS SHALL BE PLANNED AND COORDINATED WITH GENERAL CONTRACTOR FOR THE INSTALLATION OF APPROPRIATE SLEEVES.
5. ALL CONDUIT SHALL BE 3/4" MINIMUM U.N.O. MC CABLE IS ALLOWED.
6. CONDUIT SHALL BE CONCEALED IN CEILING OR WALLS WHEREVER POSSIBLE.
7. ALL BRANCH CIRCUITS AND FEEDERS SHALL CONTAIN A GREEN INSULATED GROUND CONDUCTOR. GROUNDING BY MEANS OF RACEWAY IS NOT PERMITTED.
8. REFER TO MECHANICAL, PLUMBING, AND ARCHITECTURAL PLANS FOR EXACT LOCATION OF EQUIPMENT.
9. CONTRACTOR SHALL COORDINATE EXACT HEIGHT OF DEVICES DESIGNED AS OVER COUNTER WITH CASE WORK AND FURNITURE DRAWINGS.
10. VERIFY CEILING TYPES PER THE ARCHITECTURAL REFLECTED CEILING PLAN. PROVIDE APPROPRIATE TYPE FIXTURE, LAY-IN FOR GRID, FLANGE FOR DRYWALL, ETC.
11. VERIFY AND COORDINATE MOUNTING HEIGHTS AND LOCATIONS OF ALL DEVICES MOUNTED IN CASEWORK OR ABOVE COUNTERS WITH SPECIFIC EQUIPMENT FURNISHED.
12. NO MORE THAN 3 PHASE CONDUCTORS SHALL BE INSTALLED IN ANY ONE CIRCUIT, UNLESS NOTED OTHERWISE. EACH BRANCH CIRCUIT SHALL CONTAIN THEIR OWN NEUTRAL CONDUCTOR. NO SHARED NEUTRALS.
13. CONTRACTOR SHALL PROVIDE ALL FIRESTOPPING FOR CONDUIT OR CABLE TRAY PENETRATIONS THAT PENETRATE ACOUSTICAL RATED OR SMOKE AND FIRE RATED ASSEMBLIES. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF ALL RATED ASSEMBLIES. ALL RATED PENETRATIONS SHALL BE FIRESTOPPED TO ORIGINAL ASSEMBLY RATING. ALL NON-RATED FLOOR PENETRATIONS SHALL BE SEALED WATER TIGHT WITH A FLEXIBLE SEALANT.
14. PROVIDE ALL PULL BOXES, IN ACCESSIBLE AREA, THAT EXCEED NEC NUMBER OF BENDS OR LENGTH IN FEEDER AND BRANCH CIRCUITS. INSTALL BOXES WHERE REQUIRED PER CODE.
15. ALL WIRING DEVICES SHALL BE OF HEAVY DUTY COMMERCIAL GRADE CONSTRUCTION. REFER TO ARCHITECTURAL SHEETS AND CODE SHEET FOR ALL FIRE-RATED PARTITION LOCATIONS AND RATINGS. COORDINATE COLORS WITH ARCHITECT.
16. CONTRACTOR IS RESPONSIBLE FOR ALL CORE-DRILLS REQUIRED FOR INSTALLATION OF ELECTRICAL WORK.
17. ROUTING OF CIRCUITRY INSTALLED IN CASEWORK, CABINETRIES, ETC. SHALL BE COORDINATED FOR PROPER CONCEALMENT AND FUNCTION OF CASEWORK, CABINETRIES, ETC.
18. VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO EXCAVATION, TRENCHING, OR DRILLING.
19. ALL ROOF PENETRATIONS OR PATCHES SHALL BE MADE PER ROOFING MANUFACTURER WARRANTY REQUIREMENTS.
20. ALL EXPOSED METAL CONDUITS ARE TO BE PAINTED TO MATCH THE ADJACENT SURFACE. COORDINATION OF PAINTING OF CONDUIT IS TO BE BY THE ELECTRICAL CONTRACTOR, WITH PAINTING BY OTHERS.
21. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL REQUIRED JUNCTION BOXES, PULL BOXES. ETC FOR A COMPLETE INSTALLATION PER THE N.E.C. AND LOCAL CODES. ALL CONDUCTORS SHALL BE RATED FOR 90 DEGREE CELSIUS.
22. COORDINATE WORK WITH OTHER TRADES. COORDINATION OR SCHEDULING SHALL BE RESPONSIBILITY OF THE INVOLVED CONTRACTORS.
23. ALL LOW VOLTAGE CABLING INSTALLED IN SPACES WITHOUT A LAY-IN OR WITH A HARD CEILING SHALL BE INSTALLED IN CONDUIT AND BOXES.
24. ALL LOADS CALCULATED AND SHARED ON THESE PLANS ARE INTENDED FOR ENGINEERING USE ONLY AND NOT INTENDED TO BE USED BY ANYONE ELSE FOR ANY REASON. ANY USE OF THESE CALCULATIONS BY ANYONE OTHER THAN L2 ENGINEERING IS DONE AT THEIR OWN RISK.

DETAIL NOTES:

1. 120V RECEPTACLE BRANCH CIRCUIT. REFER TO POWER PLANS
2. 3/4" CONDUIT WITH CABLES TO CABLETRAY/DATA/COMM. BACKBOARD.
3. SWITCH LEG.
4. OR 4" ABOVE BACKSPLASH
5. STUB 1" CONDUIT TO ABOVE ACCESSIBLE CEILING. PROVIDE BUSHING



LEGEND

- DC — DATA/COMMUNICATIONS OUTLET
- T — TELEPHONE OUTLET
- TV — AV BOX
- 120V POWER OUTLET
- SWITCH
- DOUBLE DUPLEX 120V POWER OUTLET

1 TYPICAL DEVICE ELEVATION DETAILS
NTS

ELECTRICAL LEGEND

LIGHTING

A1	LIGHTING FIXTURE. REFER TO FIXTURE SCHEDULE. LETTER INDICATES TYPE.
A1 NL	EMERGENCY LIGHTING FIXTURE WITH EMERGENCY BATTERY BACKUP. "NL" INDICATES NIGHT LIGHT CIRCUIT. REFER TO FIXTURE SCHEDULE FOR BATTERY REQUIREMENTS.
C1	LIGHTING FIXTURE. LETTER INDICATES TYPE.
C1	EMERGENCY LIGHTING FIXTURE WITH EMERGENCY BATTERY BACKUP.
X1	CEILING MOUNTED EXIT SIGN. REFER TO FIXTURE SCHEDULE. SHADED AREA DENOTES FACE(S) OF UNIT. CONNECT TO LOCAL UNSWITCHED LIGHTING CIRCUIT.
X1	WALL MOUNTED EXIT SIGN. REFER TO FIXTURE SCHEDULE. SHADED AREA DENOTES FACE(S) OF UNIT. CONNECT TO LOCAL UNSWITCHED LIGHTING CIRCUIT.
EM	EMERGENCY EGRESS LIGHT. REFER TO FIXTURE SCHEDULE.
D	CEILING MOUNTED DAYLIGHT SENSOR.
OC	CEILING MOUNTED OCCUPANCY SENSOR.
$	SINGLE POLE WALL SWITCH. 120/277 VOLT, 20 AMP. 44" AFF.
3 $	THREE WAY WALL SWITCH. 120/277V, 20 AMP. 44" AFF
4 $	FOUR WAY WALL SWITCH. 120/277V, 20 AMP. 44" AFF
OC $	OCCUPANCY SENSOR WALL SWITCH. 120/277V, 20 AMP. 44" AFF
DOC $	OCCUPANCY SENSOR WALL SWITCH WITH 0-10V DIMMING. 120/277V, 20 AMP. 44" AFF
P $	SINGLE POLE WALL SWITCH WITH PILOT LIGHT. 120/277V, 20 AMP. 44" AFF
	EXTERIOR LIGHT FIXTURE. ER, EXISTING TO REMAIN, PL1 - NEW FIXTURE. REFER TO FIXTURE SCHEDULE.
PC	PHOTOCELL

POWER

48"	DUPLEX RECEPTACLE. 120 VOLT, 20 AMP. 18" AFF UNO.
U	DUPLEX RECEPTACLE WITH USB PLUG. 120 VOLT, 20 AMP. 18" AFF UNO.
	DUPLEX RECEPTACLE MOUNTED AT 46" OR ABOVE BACKSPLASH. 120 VOLT, 20 AMP.
	DOUBLE DUPLEX RECEPTACLE. 120 VOLT, 20 AMP. 18" AFF UNO.
	120 VOLT DOUBLE DUPLEX, 20 AMP RECEPTACLE MOUNTED AT 46" AFF OR 4" ABOVE BACKSPLASH.
GF/WP	DUPLEX RECEPTACLE WITH GROUND FAULT PROTECTION. 120 VOLT, 20 AMP. 18" AFF UNO, WP-WEATHERPROOF BOX
	FLUSH FLOOR DUPLEX RECEPTACLE IN FLOOR BOX
	120 VOLT SINGLE 20 AMP RECEPTACLE.
C	DUPLEX RECEPTACLE. CEILING MOUNTED
	SPECIAL PURPOSE RECEPTACE. REFER TO FLOOR PLANS FOR NEMA CONFIGURATION.
m	FRACTIONAL HP MOTOR STARTER WITH THERMAL OVERLOADS.
	ELECTRICAL MOTOR.
XXX-1	HOMERUN TO PANELBOARD. NOTION INDICATES PANEL AND CIRCUIT NUMBER. (ALL CONDUCTORS SHALL BE #10 UNLESS NOTED OTHERWISE.)
	ELECTRICAL PANELBOARD.
J	JUNCTION BOX.
	CONDUIT STUB-OUT AND CAP BELOW GRADE. MARK STUB-OUT AT GRADE LEVEL.
UE	UNDERGROUND HIGH VOLTAGE OR SECONDARY SERVICE FEED.
4X	SAFETY DISCONNECT SWITCH (NON-FUSED). 4X INDICATES ENCLOSURE TYPE.
	SAFETY DISCONNECT SWITCH (FUSED).
	COMBINATON MOTOR STARTER/DISCONNECT. WITH HOA SWITCH AT UNIT (FUSIBLE). OR (CIRCUIT BREAKER FOR ELEVATOR).
T1	TRANSFORMER (NUMBER INDICATES WHICH TRANSFORMER).
HD	HAND DRYER, VERIFY MOUNTING WITH SUPPLIER

GENERAL

1 / E0.1	DETAIL # ____ DETAIL REFERENCE TAG, DRAWING # REFER TO DETAIL SHEETS
	KEYNOTE FOR DRAWING
1 / E0.1	DETAIL REFERENCE TAG (SECTION)
EF-1	MECHANICAL EQUIPMENT TAG. REFER TO EQUIPMENT DATA SCHEDULE.
48"	INDICATES NEW WORK.
48"	INDICATES TO BE REMOVED.
48"	INDICATES EXISTING TO REMAIN.

FIRE ALARM

F	FIRE ALARM PULL STATION, 44" AFF MOUNTING HEIGHT
F	FIRE ALARM HORN/STROBE. 80" AFF MOUNTING HEIGHT
D R	FIRE ALARM DUCT MOUNTED SMOKE DETECTOR. S = SUPPLY, R = RETURN - COORDINATE WITH DUCTWORK. MAKE SAMPLING TUBE FULL WIDTH OF DUCT IN LENGTH. PROVIDE SMOKE DETECTOR FOR DAMPER OPERATION AND 120 VOLT POWER CONNECTION AS SHOWN ON THE POWER DRAWINGS. COORDINATE ALL CONNECTIONS WITH MECHANICAL CONTRACTOR. CONNECT TO ALARM SYSTEM.
S	FIRE ALARM CEILING MOUNTED SMOKE DETECTOR.
FAAP	FIRE ALARM ANNUNCIATOR PANEL.
FACP	FIRE ALARM CONTROL PANEL.
F	FIRE ALARM STROBE. 80" AFF MOUNTING HEIGHT.
BL WP	BLUE EXTERIOR STROBE LIGHT FOR FIRE DEPARTMENT CONNECTION WP - WEATHERPROOF
FS	SPRINKLER SYSTEM FLOW SWITCH FURNISHED AND INSTALLED BY THE FIRE PROTECTION CONTRACTOR, CONNECTED BY ELECTRICAL CONTRACTOR.
TS	SPRINKLER SYSTEM GATE VALVE. SUPERVISORY SWITCH FURNISHED AND INSTALLED BY THE FIRE PROTECTION CONTRACTOR, CONNECTED BY ELECTRICAL CONTRACTOR.
F WP	FIRE ALARM STROBE. 80" AFF MOUNTING HEIGHT.
	MAGNETIC DOOR HOLD OPEN.
RPS	FIRE ALARM REMOTE POWER SUPPLY.
Z	FIRE ALARM MONITOR MODULE.
R	FIRE ALARM CONTROL RELAY MODULE.
E.O.L.R.	END OF THE LINE RESISTOR.
KB	FIRE ALARM CONTROL RELAY MODULE.
CO	CARBON MONOXIDE DETECTOR

DOOR ACCESS

E	ELECTRIC DOOR STRIKE.
DC	DOOR SWITCH/CONTACT.
CR	KEY OR KEYCARD ACTIVATED SWITCH IN TAMPER PROOF ENCLOSURE. WP - WEATHERPROOF.
HC	HANDICAP DOOR ACCESS BUTTON IN FLUSH WALL BOX.

INTRUDER DETECTION SYSTEM

PIR	CEILING MOUNTED MOTION SENSOR DEVICE.
KP	CEILING MOUNTED MOTION SENSOR DEVICE.
	SECURITY CAMERA

DATA & COMMUNICATION

2	DATA /COMMUNICATION OUTLET. TWO PORTS REFER TO DETAIL FOR MOUNTING REQUIREMENTS.
W	WALL PHONE. 54" AFF.
	DATA OUTLET. 18" AFF.
4	DATA/COMMUNTICATION. FOUR PORT DATA, 18" AFF.
6	DATA/COMMUNTICATION. FOUR PORT DATA, 18" AFF.
WAP	WIRELESS ACCESS CONNECTION POINT WITH CEILING MOUNTED CISCO WIRELESS DEVICE.

ELECTRICAL INDEX OF DRAWINGS

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TITLE
ELECTRICAL LEGEND AND GENERAL NOTES

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ELECTRICAL SPECIFICATIONS

GENERAL PROVISIONS

A. REFERENCE

1. THE GENERAL CONDITIONS AND OTHER CONTRACT DRAWINGS AS SET FORTH IN THE FOREGOING PAGES ARE HEREBY INCORPORATED INTO AND BECOME A PART OF THE SPECIFICATIONS FOR WORK UNDER THIS PROJECT, INSOFAR AS THEY APPLY HERETO.

2. ALL SPECIFICATIONS UNDER THIS DIVISION TITLE ARE DIRECTED TO AND ARE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. UNLESS OTHER TRADES OR PERSONS ARE SPECIFICALLY MENTIONED, "ELECTRICAL CONTRACTOR" IS INFERRED AND INTENDED.

B. CONTRACT DRAWINGS

1. THE DRAWINGS ACCOMPANYING THESE SPECIFICATIONS ARE COMPLEMENTARY EACH TO THE OTHER AND WHAT IS CALLED FOR BY ONE SHALL BE AS IF CALLED FOR BY BOTH.

2. CONSULT ALL CONTRACT DRAWINGS WHICH MAY AFFECT THE LOCATION OF EQUIPMENT, CONDUIT AND WIRING AND MAKE MINOR ADJUSTMENTS IN LOCATION TO SECURE COORDINATION.

3. WIRING LAYOUT IS SCHEMATIC AND EXACT LOCATIONS SHALL BE DETERMINED BY FIELD CONDITIONS.

4. OTHER THAN MINOR ADJUSTMENTS SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE FOR APPROVAL BEFORE PROCEEDING WITH THE WORK.

C. JOB-SITE COPY OF DOCUMENTS

1. MAINTAIN AT THE SITE, ONE COPY OF ALL DRAWINGS, SPECIFICATIONS, ADDENDA APPROVED SHOP DRAWINGS, CHANGE ORDERS AND OTHER MODIFICATIONS, IN GOOD ORDER AND MARKED TO RECORD ALL CHANGES MADE DURING CONSTRUCTION. THESE SHALL BE AVAILABLE TO THE OWNER'S REPRESENTATIVE. THE DRAWINGS MARKED TO RECORD ALL CHANGES MADE DURING CONSTRUCTION SHALL BE DELIVERED TO THE OWNER'S REPRESENTATIVE FOR THE OWNER UPON COMPLETION OF THE WORK. AN ADDITIONAL SET OF DRAWINGS WILL BE FURNISHED BY THE OWNER'S REPRESENTATIVE FOR THIS PURPOSE UPON REQUEST.

D. MANUFACTURER'S DRAWINGS

1. THE CONTRACTOR SHALL SUBMIT TO THE ARCHITECT FOR REVIEW, (4) COPIES OF MANUFACTURER'S DRAWINGS AND WIRING DIAGRAMS (OR ELECTRONIC SUBMITTALS IN PDF FORMAT). THE ENGINEER WILL REVIEW CONTRACTOR'S SHOP DRAWINGS AND RELATED SUBMITTALS (AS INDICATED BELOW) WITH RESPECT TO THE ABILITY OF THE DETAILED WORK, WHEN COMPLETE, TO BE A PROPERLY FUNCTIONING INTEGRAL ELEMENT OF THE OVERALL SYSTEM DESIGNED BY THE ENGINEER. BEFORE SUBMITTING A SHOP DRAWING OR ANY RELATED MATERIAL TO THE ENGINEER, CONTRACTOR SHALL: REVIEW EACH SUCH SUBMISSION FOR CONFORMANCE WITH THE MEANS, METHODS, TECHNIQUES, SEQUENCES, AND OPERATIONS OF CONSTRUCTION. AND SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL THERETO, ALL OF WHICH ARE THE SOLE RESPONSIBILITY OF CONTRACTOR; APPROVE EACH SUCH SUBMISSION BEFORE SUBMITTING IT; AND SO STAMP EACH SUCH SUBMISSION BEFORE SUBMITTING IT. THE ENGINEER SHALL ASSUME THAT NO SHOP DRAWING OR RELATED SUBMITTAL COMPRISES A VARIATION UNLESS CONTRACTOR ADVISES ENGINEER OTHERWISE VIA A WRITTEN INSTRUMENT WHICH IS ACKNOWLEDGED BY ENGINEER IN WRITING. THE ITEMS, TYPES OF SUBMITTALS AND RELATED MATERIAL (IF ANY) CALLED FOR ARE INDICATED BELOW:

ITEMS SHOP DRAWINGS TYPE SUBMITTALS REQUIRED

LIGHTING FIXTURES
WIRING DEVICES
LIGHTING CONTROLS

E. GUARANTEES

1. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEFECTS, REPAIRS AND REPLACEMENTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR AFTER DATE OF SUBSTANTIAL COMPLETION AS DETERMINED BY THE OWNER'S REPRESENTATIVE. PRODUCT GUARANTEES GREATER THAN ONE (1) YEAR SHALL BE PASSED ALONG TO THE OWNER FOR FULL BENEFIT OF THE MANUFACTURER'S WARRANTY.

WORK INCLUDED

A. INSTALLATION, MATERIALS, AND WORKMANSHIP

6. FURNISH AND INSTALL ALL NECESSARY ANCHORS, SUPPORTS, STRAPS, BOXES, FITTINGS AND OTHER SIMILAR APPURTENANCES NOT INDICATED ON THE DRAWINGS BUT WHICH ARE REQUIRED FOR A COMPLETE AND PROPERLY INSTALLED SYSTEM CONSISTENT WITH THE ARCHITECTURAL TREATMENT OF THE BUILDING.

7. THE ELECTRICAL CONTRACTOR, INSOFAR AS THE WORK IS CONCERNED, SHALL AT ALL TIMES KEEP THE PREMISES IN A NEAT AND ORDERLY CONDITION, AND AT THE COMPLETION OF THE WORK, SHALL PROPERLY CLEAN UP AND CART AWAY DEBRIS AND EXCESS MATERIALS. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF DUMPSTER & REFUSE DISPOSAL AS REQUIRED FOR ELECTRICAL WORK.

8. ALL MATERIALS SHALL BE NEW AND UNDETERIORATED AND OF A QUALITY NOT LESS THAN THE MINIMUM SPECIFIED.

B. COORDINATION OF PLANS AND SPECIFICATIONS

1. CONTACT THE OWNER'S REPRESENTATIVE IMMEDIATELY IF THERE IS ANY QUESTIONS REGARDING THE MEANING OR INTENT OF EITHER PLANS OR SPECIFICATIONS, OR UPON NOTICING ANY DISCREPANCIES OR OMISSIONS IN EITHER PLANS OR SPECIFICATIONS.

C. CUTTING AND PATCHING

1. PATCHING SHALL MATCH EXISTING SURFACES IN KIND AND FINISH AND SHALL BE DONE BY THE GENERAL CONTRACTOR AT THE ELECTRICAL CONTRACTOR'S EXPENSE.

2. REPAIR OF DAMAGES, BY THE ELECTRICAL CONTRACTOR, TO NEWLY PATCHED AND REFINISHED AREAS SHALL BE DONE BY THE GENERAL CONTRACTOR AT THE ELECTRICAL CONTRACTOR'S EXPENSE, TO MATCH EXISTING CONDITION.

3. WHERE REQUIRED TO MAINTAIN FIRE RATING, OPENINGS SHALL BE SEALED UTILIZING 3M BRAND FIRE BARRIER PENETRATION SEALING SYSTEMS. FIRE BARRIER OR FIRE STOP SYSTEMS FROM CROUSE-HINDS, THOMAS & BETTS OR DOW CORNING MAY BE USED AT CONTRACTOR'S OPTION. THIS INCLUDES HOLES LEFT DUE TO REMOVAL OF EXISTING CONDUITS, BUS DUCT, ETC. OPENINGS SHALL BE TEMPORARILY FIRE STOPPED UNTIL PERMANENT FIRE STOPPING IS DONE.

D. CLEANING AND PAINTING

1. ALL ELECTRICAL EQUIPMENT SHALL BE KEPT DRY AND CLEAN DURING THE CONSTRUCTION PERIOD. INTERIOR OF ALL ENCLOSURES SHALL BE CLEANED OF DIRT AND DEBRIS BEFORE INSTALLING TRIM OR COVERS.

2. ALL FINISHED SURFACES OF EQUIPMENT FURNISHED UNDER THIS CONTRACT SHALL BE THOROUGHLY CLEANED OF DIRT AND ALL SCRATCHED OR DAMAGED SURFACES SHALL BE TOUCHED UP WITH MATCHING MATERIALS BEFORE FINAL ACCEPTANCE OF THE WORK.

3. WHEN ALL WORK IS COMPLETED AND ALL WORK HAS BEEN SATISFACTORILY TESTED AND ACCEPTED BY THE OWNER'S REPRESENTATIVE, ALL CONDUIT AND OTHER EXPOSED SURFACES SHALL BE THOROUGHLY CLEANED.

CODES AND FEES

A. CODES:

1. ALL WORK PERFORMED UNDER THIS SPECIFICATION SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE AS PREPARED AND PUBLISHED BY THE NATIONAL FIRE PROTECTION ASSOCIATION AND ANY APPLICABLE STATE OR LOCAL CODES.

B. FEES:

1. OBTAIN AND PAY FOR ANY AND ALL PERMITS REQUIRED BY ALL LAWS AND REGULATIONS AND PUBLIC AUTHORITY HAVING SUCH JURISDICTION.

TESTS AND SPECIFICAITONS

A. OBTAIN ALL INSPECTIONS REQUIRED BY ALL LAWS, ORDINANCES, RULES, REGULATIONS OR PUBLIC AUTHORITY HAVING JURISDICTION AND OBTAIN CERTIFICATES OF SUCH INSPECTIONS AND SUBMIT SAME TO THE OWNER'S REPRESENTATIVE. PAY ALL FEES, CHARGES AND OTHER EXPENSES IN CONNECTION THEREIN. OBTAIN OCCUPANCY PERMIT AS REQUIRED BY OWNER. FINAL PAYMENT SHALL NOT BE MADE UNTIL OCCUPANCY PERMIT IS OBTAINED.

B. WORK SHALL BE UNACCEPTABLE WHEN FOUND TO BE DEFECTIVE OR CONTRARY TO THE PLANS SPECIFICATIONS, CODES SPECIFIED OR ACCEPTED STANDARDS OF GOOD WORKMANSHIP.

C. THE CONTRACTOR SHALL PROMPTLY CORRECT ALL WORK FOUND UNACCEPTABLE BY THE OWNER'S REPRESENTATIVE WHETHER OBSERVED BEFORE OR AFTER SUBSTANTIAL COMPLETION AND WHETHER OR NOT FABRICATED, INSTALLED OR COMPLETED. THE CONTRACTOR SHALL BEAR ALL COSTS OF CORRECTING SUCH UNACCEPTABLE WORK, INCLUDING COMPENSATION FOR THE OWNERS REPRESENTATIVE ADDITIONAL SERVICES MADE NECESSARY THEREBY.

D. THE ELECTRICAL CONTRACTOR SHALL TEST AND OBTAIN ACCEPTANCE FOR THE FOLLOWING SYSTEMS:

1. EMERGENCY LIGHTING.
2. RECEPTACLE AND EQUIPMENT POWER.
3. LIGHTING.
4. LIGHTING CONTROLS

CONDUIT

A. FURNISH AND INSTALL ALL CONDUITS, BOXES, FITTINGS, ETC., FOR A COMPLETE RACEWAY SYSTEM.

B. ALL WIRING SHALL BE RUN IN EMT CONDUIT OR MC CABLE UNLESS OTHERWISE NOTED.

C. ALL CONDUIT SIZES STATED HEREIN OR MARKED ON THE DRAWINGS ARE MINIMUM SIZE AND SHALL BE NO LESS THAN 1/2" UNLESS OTHERWISE NOTED.

D. ALL CONDUIT SHALL BE SUBSTANTIALLY SUPPORTED BY PIPE STRAPS OR SUITABLE CLAMPS OR HANGERS ATTACHED TO THE ELEMENTS OF THE BUILDING STRUCTURE TO PROVIDE RIGID INSTALLATION; IN NO CASE SHALL CONDUIT BE ATTACHED OR SUPPORTED FROM ADJOINING PIPE OR INSTALLED IN SUCH A MANNER AS TO PREVENT THE READY REMOVAL OF OTHER PIPE FOR REPAIRS. "MINERALAC" TYPE SUPPORTS AND "UNISTRUT" TYPE ONE BOLT SUPPORTS WITH SQUARE ENDS SHALL NOT BE USED AT ANY LOCATION.

WIRE AND CABLE

A. ALL CONDUCTORS SHALL BE STRANDED AND OF THE AWG SIZE AND TYPE SHOWN ON THE DRAWINGS. WHERE NO SIZE OR TYPE IS SHOWN, CONDUCTORS SHALL NOT BE LESS THAN #12 TYPE XHHW, THHN, OR THWN. ALL CONDUCTORS SHALL BE COPPER AND HAVE 600 VOLT INSULATION; BE UL LABELED AND OF AMERICAN MANUFACTURER.

B. ALL CONNECTIONS ARE TO BE MADE USING PRESSURE TYPE TERMINALS.

C. THE FOLLOWING COLOR CODE SHALL BE USED:

	208 VOLT
PHASE A	BLACK
PHASE B	RED
PHASE C	BLUE
NEUTRAL	WHITE
EQUIPMENT GROUND	GREEN

D. CONDUCTORS NO. 10 AWG OR SMALLER SHALL HAVE INSULATION COLORED AS NOTED ABOVE.

E. CONDUCTORS NO.8 AWG OR LARGER SHALL HAVE INSULATION COLORED AS NOTED ABOVE OR COLORED TAPE, MINIMUM SIZE 1/2", WRAPPED TWICE AROUND AT THE FOLLOWING POINTS:

1. AT EACH TERMINAL.
2. AT EACH CONDUIT ENTRANCE.
3. AT INTERVALS NOT MORE THAN 12 INCHES APART.
4. IN ALL BOXES, PANEL TUBS, SWITCHBOARDS, ETC.

F. ALL BRANCH CIRCUITS SHALL BE MARKED IN THE PANELBOARD GUTTERS. MARKERS SHALL INDICATE CORRESPONDING BRANCH-CIRCUIT NUMBERS.

G. EACH BRANCH CIRCUIT REQUIRING A NEUTRAL SHALL BE FURNISHED WITH A SEPARATE INDIVIDUAL NEUTRAL CONDUCTOR.

BOXES AND PLATES

A. FURNISH AND INSTALL ALL OUTLET, JUNCTION, AND PULLBOXES AS INDICATED ON THE DRAWINGS AND AS NECESSARY TO INSTALL THE REQUIRED CONDUIT AND WIRING IN A NEAT AND WORKMANLIKE MANNER.

B. PULLBOXES AND JUNCTION BOXES SHALL BE GALVANIZED AND OF THE CORRECT SIZE AND SIZE AND GAUGE, IN ACCORDANCE WITH CODE REQUIREMENTS AND SHALL BE UL LABELED.

C. FLUSH OUTLET, JUNCTION AND PULLBOXES SHALL BE PRESSED STEEL GALVANIZED OR SHERARDIZED AND SHALL BE A MINIMUM OF 4" SQUARE OR OCTAGONAL SIMILAR TO APPLETON #40.

D. SWITCH PLATES ON FLUSH AND CAST BOXES SHALL BE SIERRA NOS. P-1, P-2, P-3 ETC., AS REQUIRED, AND SHALL BE MADE OF IVORY PLASTIC.

E. DUPLEX RECEPTACLE PLATES ON FLUSH AND CAST BOXES SHALL BE SIERRA NO. P-8 IVORY PLASTIC.

F. ALL BOXES SHALL BE RIGIDLY SUPPORTED FROM BUILDING STRUCTURE INDEPENDENT OF THE CONDUIT SYSTEM. BOXES CAST INTO MASONRY OR CONCRETE ARE CONSIDERED TO BE RIGIDLY SUPPORTED.

SWITCHES

A.	120V-20A	LEGRAND #CS20AAC1W, HUBBELL #CS120W, EATON #CS120W
	120V-20A 3-WAY	LEGRAND #CS20AAC3W, HUBBELL #CS320W, EATON #CS320W
	120V-20A 4-WAY	LEGRAND #CS20AAC4W, HUBBELL #CS420W, EATON #CS420W
	120V-20A OC	LEGRAND #DSW-301-W, HUBBELL #AD2000W22, EATON #OSD10A-W
	120V-20A DOC	LEGRAND #DW-311-W, HUBBELL #ADD2000W1, EATON #OS10D7-W
	120V-20A PILOT	LEGRAND #692WG, HUBBELL #HBL1221PL, EATON #AH1221PL

RECEPTACLES

A.	120V-20A	LEGRAND #CR20W, HUBBELL #CR20W, EATON #CR20W
	120V-20A TR	LEGRAND #TR20W, HUBBELL #CR20WHITR, EATON #TRCR20W
	120V-20A GF	LEGRAND #2097TRAW, HUBBELL #GFRTR20W, EATON #SGF20W
	120V-20A USB	LEGRAND #TR20USBAC6W, HUBBELL #USB20ACPDW, EATON #TRUSBPDAC20W
	120V-20A WP/GF	LEGRAND #2097TRWRW, HUBBELL #GFRTW20W, EATON #TWRSGF20W

WIRING DEVICES

A. WIRING DEVICES SHALL BE FURNISHED IN STRICT ACCORDANCE WITH THE CATALOG NUMBERS AND MANUFACTURERS LISTED IN THE SCHEDULE WHICH FOLLOWS. OTHER SPECIAL PURPOSE DEVICES SHALL BE AS SPECIFIED ON THE DRAWINGS.

B. COORDINATE DEVICE COLOR WITH ARCHITECT.

IDENTIFICATION

H. EACH PIECE OF ELECTRICAL EQUIPMENT AND INDIVIDUAL SWITCHES, ALL DISCONNECTS, STARTERS ALL EXHAUST FAN MANUAL STARTING SWITCHES, ALL POWER AND LIGHTING PANELS, ALL CABINETS AND PULL BOXES, ETC., SHALL BE IDENTIFIED ON THE FRONT COVER OR TRIM WITH ITS NAME AND/OR DESIGNATION NUMBER OR LETTER AS SHOWN ON THE DRAWINGS AND WITH THE VOLTAGE AVAILABLE WITHIN THE PANEL.

I. IDENTIFICATION SHALL BE IN THE FORM OF LAMINATED PLASTIC NAMEPLATES, BLACK FACE, WITH THE LETTERS ENGRAVED INTO THE WHITE BACKGROUND, MINIMUM 1/4" HIGH. PLATES SHALL BE DRILLED ON EACH END FOR SHEETMETAL SCREW ATTACHMENT, NO "DYMO" OR SIMILAR TYPE LABELS WILL BE ALLOWED.

J. THE FOLLOWING IS AN EXAMPLE OF THE NAMEPLATE LAYOUT AND WORDING:

AC-1 DICONNECT
208V - 1• CKT B-1,2

K. PLASTIC NAMEPLATES SHALL BE ATTACHED TO FACE OF ELECTRICAL DEVICE BY SHEETMETAL SCREWS. LOCATE PLATE SO WORDING READS HORIZONTALLY AND PLATE DOES NOT OBSTRUCT OTHER IDENTIFICATION PLATES, LATCHES OR OPERATORS.

L. WHERE CIRCUIT BREAKERS OR FUSES ARE APPLIED IN COMPLIANCE WITH THE SERIES COMBINATION RATINGS MARKED ON THE EQUIPMENT BY THE MANUFACTURER, THE EQUIPMENT ENCLOSURE(S) SHALL BE LEGIBLY MARKED IN THE FIELD TO INDICATE THE EQUIPMENT HAS BEEN APPLIED WITH A SERIES COMBINATION RATING. THE MARKING SHALL BE READILY VISIBLE AND STATE "CAUTION - SERIES RATED SYSTEM."

GROUNDING

A. ALL FEEDERS AND BRANCH CIRCUITS OVER 100 VOLTS SHALL INCLUDE A GROUNDING CONDUCTOR SIZED IN ACCORDANCE WITH NEC TABLE 250.122, EXCEPT NOT BE SMALLER THAN #12 FOR POWER AND LIGHTING CIRCUITS AND #14 FOR CONTROL CIRCUITS. ALL GROUND CONDUCTORS SHALL BE GREEN, OR AS SPECIFIED UNDER SECTION "WIRE AND CABLE."

B. ALL GROUND CLAMPS SHALL BE PENN-UNION "GPL" TYPE OR SIMILAR BY O.Z. OR BURNDY.

C. CONDUIT FOR SOLITARY GROUND CONDUCTORS SHALL BE RIGID SCHEDULE 40 PVC NON-METALLIC ELECTRICAL CONDUIT WITH UL LABEL. SOLITARY GROUND CONDUCTORS SHALL NOT BE PLACED THROUGH METALLIC SLEEVES OR CONDUITS AND SHALL NOT BE COMPLETELY ENCIRCLED BY METALLIC HANGERS OR SUPPORTS.

D. THE GROUND CONDUCTOR SHALL BE CONNECTED TO THE NEUTRAL IN ONLY TWO LOCATIONS - ON THE SUPPLY SIDE OF THE SERVICE DISCONNECT MEANS PER NEC 250.24 AND ON SEPARATELY DERIVED SYSTEMS PER NEC 250.30.

E. AT EACH RECEPTACLE BOX, THE GROUND CONDUCTOR SHALL ENTER AND CONNECT, WITH NORMAL WIRING CONNECTOR, TO: 1) THE GROUND PIGTAIL TO RECEPTACLE; 2) THE GROUND PIGTAIL TO BOX GROUND SCREW; AND 3) THE OUTGOING GROUND CONDUCTOR TO NEXT DEVICE, IF NOT AT END OF RUN, METAL TO METAL CONTACT BETWEEN THE DEVICE YOKE AND THE OUTLET BOX IS NOT ACCEPTABLE AS A BOND FOR EITHER SURFACE MOUNTED BOXES OR FLUSH TYPE BOXES.

F. CONDUIT SYSTEM SHALL BE ELECTRICALLY CONTINUOUS. ALL LOCK NUTS SHALL CUT THROUGH ENAMELED OR PAINTED SURFACES ON ENCLOSURES, WHERE ENCLOSURES AND NON-CURRENT CARRYING METALS ARE ISOLATED FROM THE CONDUIT SYSTEM, USE BONDING JUMPERS WITH APPROVED CLAMPS. WHERE REDUCING WASHERS ARE USED AND WHERE CONCENTRIC OR ECCENTRIC KNOCKOUTS ARE NOT COMPLETELY REMOVED BONDING BUSHINGS SHALL BE REQUIRED.

LIGHTING FIXTURES

A. FLUSH FIXTURES MAY BE FURNISHED WITH PRE-WIRED FEATURE PROVIDED THEY ARE UL APPROVED FOR 75.C WIRING AND THE JUNCTION BOX CAPACITY IS SUFFICIENT FOR THE CIRCUIT WIRING REQUIREMENTS.

B. CLEARANCES FOR RECESSED PORTIONS OF FIXTURES FROM COMBUSTIBLE MATERIAL AND THERMAL INSULATION, SHALL BE IN ACCORDANCE WITH NEC ARTICLE 410.66.

C. ANY FIXTURES SCRATCHED, BENT, CRACKED OR IN ANY WAY DAMAGED BEFORE ACCEPTANCE BY OWNER SHALL BE REPLACED AT THIS CONTRACTOR'S EXPENSE.

D. ALL FIXTURES SHALL BE IN WORKING ORDER AT THE TIME OF FINAL ACCEPTANCE OF THE WORK BY THE OWNER.

E. ALL LIGHTING FIXTURES ARE TO BE GROUNDED ON THE INTERIOR OF THE FIXTURE HOUSING, ON CLEAN BARE METAL (FREE OF PAINT). BY USE OF A PIGTAIL AND FASTENED BY A SCREW USED FOR NO OTHER PURPOSE.

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NOT FOR CONSTRUCTION

NEW POLE BARN

SPRINGFIELD MASONIC COMMUNITY

2655 W. NATIONAL RD. SPRINGFIELD, OHIO 45504

ISSUE

NO.	DATE	DESCRIPTION

DATE	07/12/24
JOB NO.	2024090
DRAWN	JMS
CHECKED	RLS

TITLE
ELECTRICAL SPECIFICATIONS

SHEET NO.
E0.3

7/12/2024 4:08:22 PM

EQUIPMENT ELECTRICAL DATA SCHEDULE

PLAN SYMBOL	DESCRIPTION/LOCATION	LOAD CHARACTERISTICS						STARTER						DISCONNECT					CTRL DEVICE			PANEL	CIRCUIT	FEEDER SIZE/ RACEWAY	NOTES	PLAN SYMBOL
		KW	HP	VOLTAGE	PHASE	FLA	SPEED DRIVE	TYPE	NEMA SIZE	FURNISH BY	INSTALL BY	AUXIL. RELAY	LOCATION	TYPE	FURNIS H BY	INSTALL BY	SWITCH/ FUSE SIZE	LOCATION	TYPE	FURNISH BY	INSTALL BY					
GUH-1	GAS FIRED UNIT HEATER	-	-	115	1	7.5	-	-	-	ES	ES	-	IN UNIT	SW	-	-	15A/NA	NEAR UNIT	-	-	-	-	-	(2) #12, (1) #12 GRD IN .75" C	-	GUH-1
GUH-2	GAS FIRED UNIT HEATER	-	-	115	1	7.5	-	-	-	ES	ES	-	IN UNIT	SW	-	-	15A/NA	NEAR UNIT	-	-	-	-	-	(2) #12, (1) #12 GRD IN .75" C	-	GUH-2
GUH-3	GAS FIRED UNIT HEATER	-	-	115	1	7.5	-	-	-	ES	ES	-	IN UNIT	SW	-	-	15A/NA	NEAR UNIT	-	-	-	-	-	(2) #12, (1) #12 GRD IN .75" C	-	GUH-3
GUH-4	GAS FIRED UNIT HEATER	-	-	115	1	7.5	-	-	-	ES	ES	-	IN UNIT	SW	-	-	15A/NA	NEAR UNIT	-	-	-	-	-	(2) #12, (1) #12 GRD IN .75" C	-	GUH-4
EF-1	EXHAUST FAN	-	1/6	115	1	-	-	-	-	ES	ES	-	IN UNIT	SW	-	-	20A/NA	NEAR UNIT	-	-	-	-	-	(3) #12, (1) #12 GRD IN .75" C	-	EF-1
EF-2	EXHAUST FAN	-	1/6	115	1	-	-	-	-	ES	ES	-	IN UNIT	SW	-	-	20A/NA	NEAR UNIT	-	-	-	-	-	(3) #12, (1) #12 GRD IN .75" C	-	EF-2
EWH-1	ELECTRIC WALL HEATER	3	-	208	1	-	-	-	-	ES	ES	-	IN UNIT	BKR	-	-	20A/NA	NEAR UNIT	-	-	-	-	-	(3) #12, (1) #12 GRD IN .75" C	-	EWH-1
EWH-2	ELECTRIC WALL HEATER	3	-	208	1	-	-	-	-	ES	ES	-	IN UNIT	BKR	-	-	20A/NA	NEAR UNIT	-	-	-	-	-	(3) #12, (1) #12 GRD IN .75" C	-	EWH-2
PTAC-1	PTAC	3	-	208	1	-	-	-	-	ES	ES	-	IN UNIT	CP	-	-	20A/NA	NEAR UNIT	-	-	-	-	-	(3) #12, (1) #12 GRD IN .75" C	1	PTAC-1
WH-1	WATER HEATER	6	-	208	1	-	-	-	-	ES	ES	-	IN UNIT	NFS	-	-	40A/NA	NEAR UNIT	-	-	-	-	-	(3) #8, (1) #10 GRD IN 1" C	-	WH-1

ABBREVIATIONS:

CC - CONTROL CONTRACTOR
CP - CORD/PLUG
EC - ELECTRICAL CONTRACTOR
ES - EQUIPMENT SUPPLIER
FS - FUSED SWITCH
FSC - FIRE SUPPRESSION CONTRACTOR
FSEC - FOOD SERVICE EQUIP. CONTRACTOR
FVNR - FULL VOLTAGE NON-REVERSING
GC - GENERAL CONTRACTOR
HC - HEATING CONTRACTOR
PC - PLUMBING CONTRACTOR
SC - SPRINKLER CONTRACTOR
VC - VENTILATION CONTRACTOR
TS - THERMOSTAT
NFS - NON FUSED SWITCH
SW - HORSEPOWER RATED SWITCH

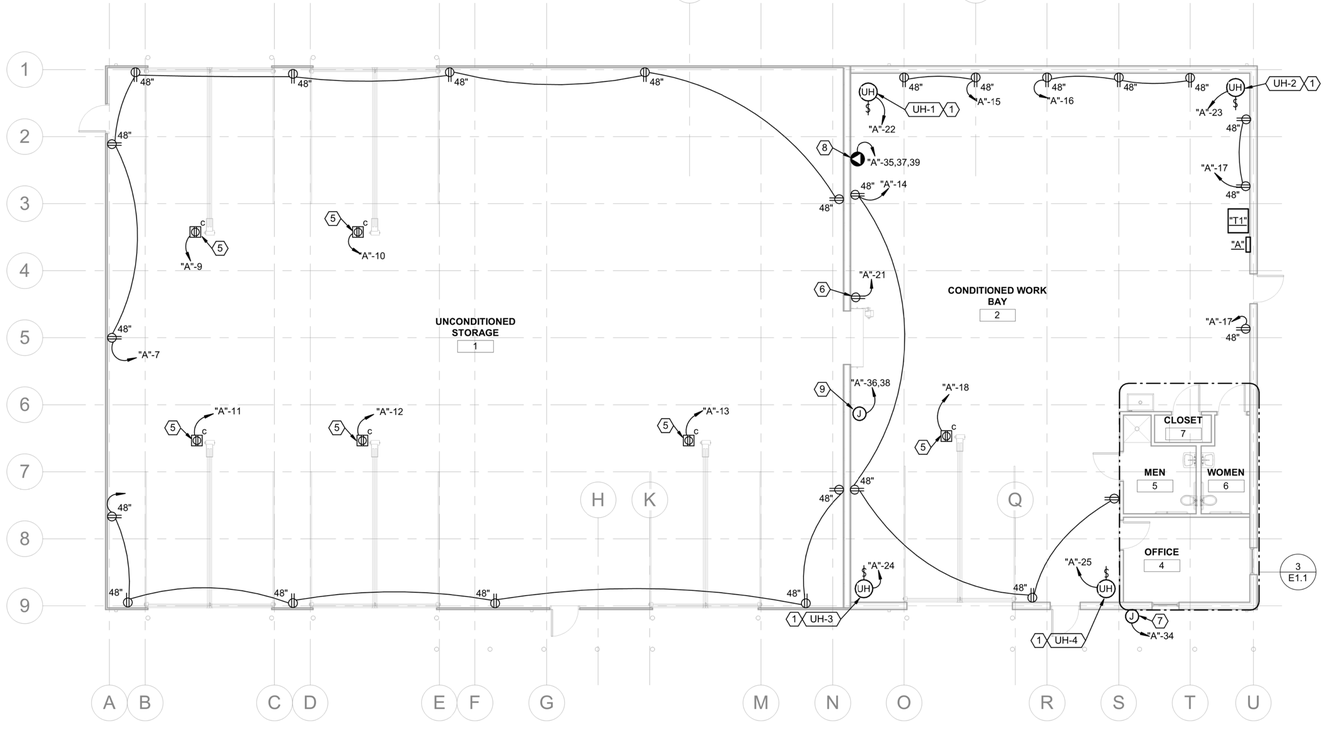
NOTES:

1 - EQUIPMENT IS PROVIDED WITH 6-20P.

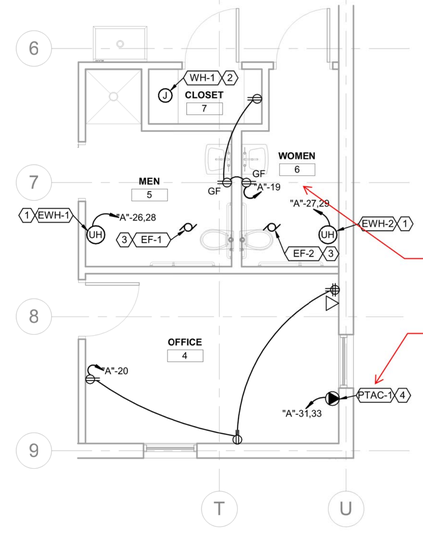
DRAWING NOTES

1. COORDINATE ALL LOCATIONS OF HVAC EQUIPMENT PRIOR TO ROUGH IN.
2. COORDINATE LOCATION OF JUNCTION BOX FOR WATER HEATER WITH PC PRIOR TO ROUGH IN.
3. EXHAUST FAN IS TO BE CONNECTED TO LIGHTING CIRCUIT AND CONTROLLED BY OC SWITCH IN SPACE.
4. COORDINATE EXACT LOCATION OF PLUG FOR PTAC WITH HC PRIOR TO ROUGH IN. RECEPTACLE SHALL BE 6-20P.
5. COORDINATE EXACT LOCATIONS OF CEILING RECEPTACLES FOR GARAGE DOOR OPENERS PRIOR TO ROUGH IN.
6. COORDINATE EXACT LOCATION OF RECEPTACLE FOR DOOR OPENER PRIOR TO ROUGH IN.
7. COORDINATE EXACT MOUNTING HEIGHT OF JUNCTION BOX FOR EXTERIOR SIGNAGE PRIOR TO ROUGH IN.
8. COORDINATE EXACT LOCATION OF RECEPTACLE FOR WELDER PRIOR TO ROUGH IN. EC TO VERIFY RECEPTACLE TYPE.
9. COORDINATE EXACT LOCATION OF JUNCTION BOX FOR AIR COMPRESSOR PRIOR TO ROUGH IN.

Add note regarding existing fuel pump and reworking (or not) off new building



1 POWER PLAN - NEW WORK
1/8" = 1'-0"



3 ENLARGED POWER PLAN - NEW WORK
1/4" = 1'-0"

Eliminating restroom - will be simple storage

Owner to provide unit. Electric only

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ISSUE

NO.	DATE	DESCRIPTION

DATE	07/12/24
JOB NO.	2024090
DRAWN	JMS
CHECKED	RLS

TITLE
ELECTRICAL POWER PLAN

SHEET NO.
E1.1

7/12/2024 4:08:23 PM

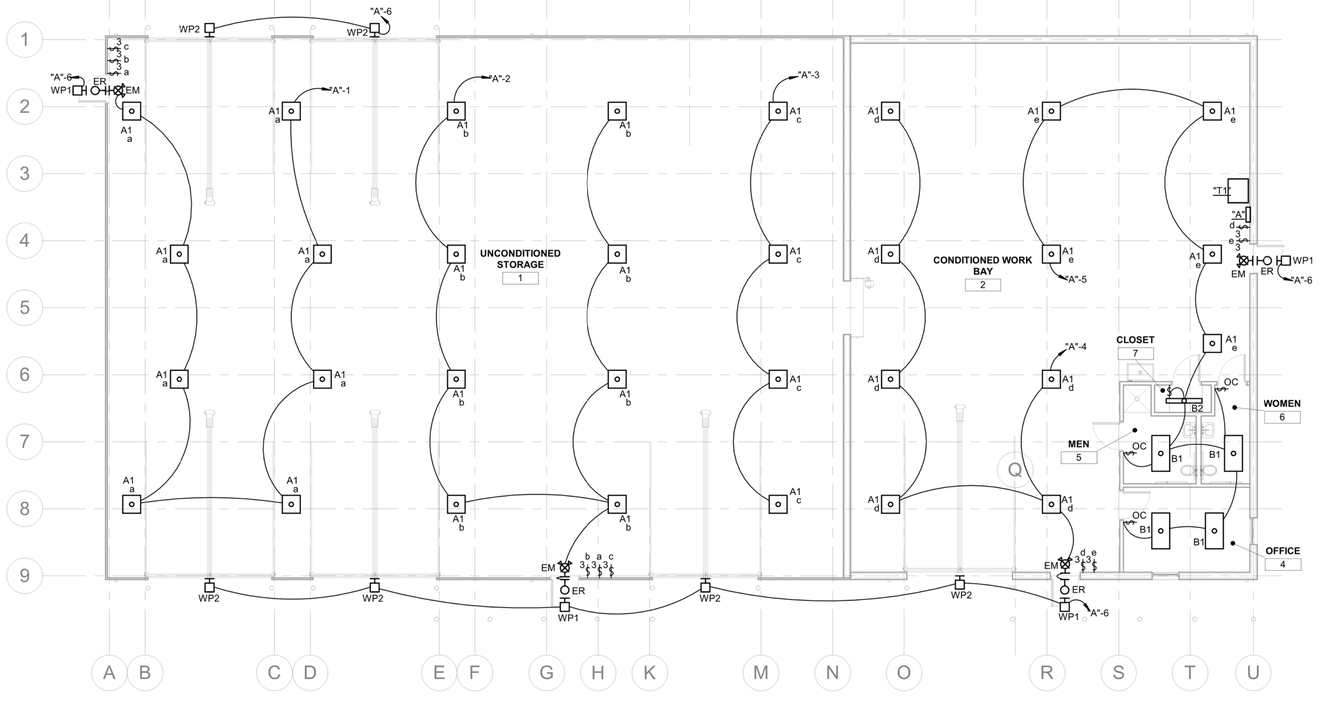
LIGHTING FIXTURE SCHEDULE

FIXTURE SYMBOL	FIXTURE VOLTAGE	FIXTURE INPUT WATTS	TEMPERATURE (K)	DELIVERED LUMENS	MANUFACTURER AND MODEL NUMBER	OTHER ACCEPTABLE MANUFACTURER	DIFFUSER MEDIA	CLASSIFICATION (EM - EMERGENCY, N - NORMAL, HAZ - HAZARDOUS, HB - HIGH BAY, LB - LOW BAY, HM - HIGH MAST)	TRIM COLOR: WHITE	BRONZE	CHROME	BRUSHED NICKEL	STANDARD	SEE NOTE	MOUNTING (S - SURFACE, R - RECESSED, SM - STEM MTD., WM - WALL MTD., C - CHAIN MTD., UC - UNDER CAB., CS - CEIL. SURF.)	SIZE (IN.): DIAMETER OR WIDTH	LENGTH	DEPTH	NOTES
A1	120	198	4000	14,740	RB4-14L-21L-28L-U-CCTS-WHT	AS PRE-APPROVED	CLEAR LENS	HB	X						C	13.1"	DIA	15.2"	-
B1	120	49	4000	3,992	VPAN24-33L/44L/55L-U-CCTS	AS PRE-APPROVED	FROSTED ACRYLIC LENS	N	X						R	24.1"	24.1"	5.16"	-
B2	120	25	4000	3,776	VS4-3L-U-CCTS-FRL	AS PRE-APPROVED	FROSTED ACRYLIC LENS	N	X						C	24"	48"	2.5"	-
WP2	120	78	4000	10,500	TLWP LED-11L-UNV-DIM-40-BZA-PCL120	AS PRE-APPROVED	POLYCARBONATE LENS	N		X					S	14.2"	9.02"	7.85"	-
WP1	120	38	4000	2,285	TSWP LED-2L-UNV-40-BZA-PCL120	AS PRE-APPROVED	POLYCARBONATE LENS	N		X					S	10.95"	6.83"	5.24"	-
X1	-	-	-	-	COMPASS #CCR	AS PRE-APPROVED	EMERGENCY EGRESS	EM	X						UNIVERSAL	19.25	8.125	1.75	-
ER	-	-	-	-	COMPASS #CORS	AS PRE-APPROVED	EMERGENCY EGRESS	EM	X						WM-8'-0"	4.5	DIA	6.7	-
▽▽	-	-	-	-	COMPASS #CU2	AS PRE-APPROVED	EMERGENCY EGRESS	EM	X						WM-8'-0"	4	9	2.75	-

NOTES:

DRAWING NOTES

1. FIXTURES ARE 18' A.F.F.



1 LIGHTING PLAN - NEW WORK
1/8" = 1'-0"

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NEW POLE BARN

SPRINGFIELD MASONIC COMMUNITY

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ISSUE

NO.	DATE	DESCRIPTION

DATE	07/12/24
JOB NO.	2024090
DRAWN	JMS
CHECKED	RLS

TITLE
ELECTRICAL LIGHTING PLAN

SHEET NO.
E2.1

7/12/2024 4:08:25 PM

Branch Panel: DPA

Location:
Supply From:
Mounting: Surfaced
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type:
Mains Rating: 600 A
MCB Rating: 0 A

Notes: **EXISTING PANEL LOCATED IN PUMP HOUSE**

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	PANEL A (EXISTING)	225 A	3	45000	10000					3	50 A	TRANSFORMER C (EXISTING)	2
3	--	--	--			45000	10000			--	--	--	4
5	--	--	--					45000	10000	--	--	--	6
7	CONDENSATE PUMPS (EXISTING)	20 A	3	2200	22000					3	100 A	TRANSFORMER B (EXISTING)	8
9	--	--	--			2200	22000			--	--	--	10
11	--	--	--					2200	22000	--	--	--	12
13	RADIATOR FAN (EXISTING)	40 A	3	8000	8000					3	40 A	DA TANK (EXISTING)	14
15	--	--	--			8000	8000			--	--	--	16
17	--	--	--					8000	8000	--	--	--	18
19	EXISTING	20 A	3	2200	25000					3	125 A	SEWAGE PUMPS (EXISTING)	20
21	--	--	--			2200	25000			--	--	--	22
23	--	--	--					2200	25000	--	--	--	24
25	GENERATOR FUEL PUMP (EXISTING)	20 A	3	2200	2200					3	20 A	BOILER FUEL PUMPS (EXISTING)	26
27	--	--	--			2200	2200			--	--	--	28
29	--	--	--					2200	2200	--	--	--	30
31	HOT WATER RETURN PUMPS (EXISTING)	20 A	3	2200	2200					3	20 A	EXISTING LOAD	32
33	--	--	--			2200	2200			--	--	--	34
35	--	--	--					2200	2200	--	--	--	36
37	AIR COMP (EXISTING)	20 A	3	2200	2200					3	20 A	EXISTING LOAD	38
39	--	--	--			2200	2200			--	--	--	40
41	--	--	--					2200	2200	--	--	--	42
43	BOILER (EXISTING)	30 A	3	6000	6000					3	30 A	BOILER 2 (EXISTING)	44
45	--	--	--			6000	6000			--	--	--	46
47	--	--	--					6000	6000	--	--	--	48
49	EXISITNG LOAD	40 A	3	8000	6000					3	30 A	BOILER 3 (EXISTING)	50
51	--	--	--			8000	6000			--	--	--	52
53	--	--	--					8000	6000	--	--	--	54
55	CHILLER HEATERS (EXISTING)	70 A	3	15000	25000					3	125 A	PRINT SHOP (EXISTING)	56
57	--	--	--			15000	25000			--	--	--	58
59	--	--	--					15000	25000	--	--	--	60
61	"T1"	20 A	3	21993									62
63	--	--	--			13693							64
65	--	--	--					16351					66
		Total Load:		223593 VA		215293 VA		217951 VA					
		Total Amps:		809 A		777 A		788 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	9600 VA	100.00%	9600 VA		
Receptacle	36104 VA	63.85%	23052 VA	**Total Conn. Load:**	656838 VA
Spare	604800 VA	100.00%	604800 VA	**Total Est. Demand:**	643786 VA
Lighting	6334 VA	100.00%	6334 VA	**Total Conn.:**	790 A
				Total Est. Demand:	774 A

Notes:

Branch Panel: "A"

Location: CONDITIONED WORK BAY 2
Supply From: "T1"
Mounting: Recessed
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 225 A
MCB Rating: 0 A

Notes:

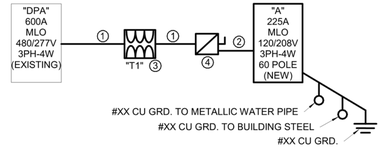
CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	LTG - UNCONDITIONED STORAGE 1	20 A	1	1584	1584					1	20 A	LTG - UNCONDITIONED STORAGE 1	2
3	LTG - UNCONDITIONED STORAGE 1	20 A	1			792	1188			1	20 A	LTG - CONDITIONED WORK BAY 2	4
5	LTG - CONDITIONED WORK BAY 2	20 A	1					1186	0	1	20 A	LTG - OUTDOOR	6
7	RECPT - UNCONDITIONED STORAGE	20 A	1	1260	1080					1	20 A	RECPT - UNCONDITIONED STORAGE	8
9	RECPT - GARAGE DOOR	20 A	1			360	360			1	20 A	RECPT - GARAGE DOOR	10
11	RECPT - GARAGE DOOR	20 A	1					360	360	1	20 A	RECPT - GARAGE DOOR	12
13	RECPT - GARAGE DOOR	20 A	1	360	720					1	20 A	RECPT - CONDITIONED WORK BAY	14
15	RECPT - CONDITIONED WORK BAY	20 A	1			360	540			1	20 A	RECPT - CONDITIONED WORK BAY	16
17	RECPT - CONDITIONED WORK BAY	20 A	1					540	360	1	20 A	RECPT - GARAGE DOOR	18
19	RECPT - RR'S	20 A	1	540	720					1	20 A	RECPT - OFFICE	20
21	JBOX - GARAGE DOOR OPENER	20 A	1			180	900			1	20 A	UNIT HEATER 1 (UH-1)	22
23	UNIT HEATER 2 (UH-2)	20 A	1					900	900	1	20 A	UNIT HEATER 3 (UH-3)	24
25	UNIT HEATER 4 (UH-4)	20 A	1	900	1500					2	20 A	ELEC. WALL HEATER (EWH-1)	26
27	ELEC. WALL HEATER (EWH-2)	20 A	2			1500	1500			--	--	--	28
29	--	--	--					1500	3000	2	40 A	JBOX - WATER HEATER (WH-1)	30
31	RCPT - PTAC (PTAC-1)	20 A	2	1500	3000					--	--	--	32
33	--	--	--			1500	180			1	20 A	JBOX - OUTSIDE SIGN	34
35	RCPT - WELDER	50 A	3					4333	2912	2	40 A	JBOX - AIR COMPRESSOR	36
37	--	--	--	4333	2912					--	--	--	38
39	--	--	--			4333	0			1	20 A	SPARE	40
41	SPARE	20 A	1					0	0	1	20 A	SPARE	42
43	SPARE	20 A	1	0	0					1	20 A	SPARE	44
45	SPARE	20 A	1			0	0			1	20 A	SPARE	46
47	SPARE	20 A	1					0	0	1	20 A	SPARE	48
49	SPACE	--	1	--	--					1	--	SPACE	50
51	SPACE	--	1			--	--			1	--	SPACE	52
53	SPACE	--	1					--	--	1	--	SPACE	54
55	SPACE	--	1	--	--					1	--	SPACE	56
57	SPACE	--	1			--	--			1	--	SPACE	58
59	SPACE	--	1					--	--	1	--	SPACE	60
		Total Load:		21993 VA		13693 VA		16351 VA					
		Total Amps:		187 A		114 A		140 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	9600 VA	100.00%	9600 VA		
Receptacle	36104 VA	63.85%	23052 VA	**Total Conn. Load:**	52038 VA
Lighting	6334 VA	100.00%	6334 VA	**Total Est. Demand:**	38986 VA
				Total Conn.:	144 A
				Total Est. Demand:	108 A

Notes:

◯	FEEDER SCHEDULE
①	(3) #1, (1) #6 CU GRD. IN 2" C.
②	(3) #4/0, (1) #4 CU GRD. IN 2" C.
③	75kVA TRANSFORMER 480/277V TO 120/208V
④	125A FUSED DISCONNECT



① SINGLELINE
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NOT FOR CONSTRUCTION

NEW POLE BARN

SPRINGFIELD MASONIC COMMUNITY

2655 W. NATIONAL RD. SPRINGFIELD, OHIO 45504

ISSUE

NO.	DATE	DESCRIPTION

DATE	07/12/24
JOB NO.	2024090
DRAWN	JMS
CHECKED	RLS

TITLE
PANELBOARD SCHEDULES AND SINGLE LINE DIAGRAM

SHEET NO.
E4.1

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