LEE'S SUMMIT LOGISTICS
431K SPEC BUILDING

NE TUDOR RD & MAIN ST
LEE'S SUMMIT, MO
64086

02.18.2022
PERMIT SET

OWNER
SCANNELL PROPERTIES
8801 RIVER CROSSING BLVD. SUITE 300
INDIANAPOLIS, IN 46240
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CIVIL ENGINEER
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OVERLAND PARK, KS 66213
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ARCHITECT
CURRAN
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CONTACT : SHAWN CURRAN

STRUCTURAL ENGINEER
WALLACE DESIGN
COLLECTIVE
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O : 816 . 421 . 8282

CONTRACTOR
KADEAN CONSTRUCTION
1821 McGEE STREET
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O : 816 . 708 . 1199

DRAWINGS INDEX

STATE OF MISSOURI
SHAWN M. CURRAN
NUMBER A-8207
REGISTERED ARCHITECT

LEE'S SUMMIT LOGISTICS 431K SPEC
210300

SCOPE NOTES

IN THE EVENT OF QUESTIONS REGARDING THE CONTRACT DOCUMENTS, SPECIFICATIONS, EXISTING CONDITIONS OR DESIGN INTENT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE ARCHITECT PRIOR TO BID SUBMITTAL AND PROCEEDING WITH ANY WORK IN QUESTION.

THESE CONTRACT DOCUMENTS ARE INTENDED TO DESCRIBE ONLY THE SCOPE AND APPEARANCE OF THE REAL PROPERTY IMPROVEMENTS, INCLUDING THE PERFORMANCE AND LEVEL OF QUALITY EXPECTED OF OF ITS COMPONENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSURE THAT ALL WORK COMPLETED AND MATERIALS INSTALLED BE IN FULL COMPLIANCE AT A MINIMUM, WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES HAVING JURISDICTIONAL AUTHORITY OVER THE PROJECT.

THESE CONTRACT DOCUMENTS DO NOT ATTEMPT TO INSTRUCT THE CONTRACTOR IN THE DETAILS OF HIS TRADE. THEY ARE PERFORMANCE SPECIFICATIONS IN THAT THEY DO REQUIRE THAT ALL MANUFACTURED ITEMS, MATERIALS AND EQUIPMENT BE INSTALLED IN STRICT CONFORMANCE TO THE MANUFACTURER'S RECOMMENDED SPECIFICATIONS, EXCEPT IN THE CASE WHERE THE CONTRACT DOCUMENTS ARE MORE STRINGENT. ANY MISCELLANEOUS ITEMS OR MATERIALS NOT SPECIFICALLY NOTED, BUT REQUIRED FOR PROPER INSTALLATION SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

ALL WORK SHALL BE WARRANTED SATISFACTORY, IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR, OR FOR THE PERIOD OF WARRANTY CUSTOMARY, OR STIPULATED FOR THE TRADE, CRAFT, OR PRODUCT, WHICHEVER IS LONGER. ONLY COMPETENT MECHANICS CAPABLE OF PRODUCING GOOD WORKMANSHIP CUSTOMARY TO THE TRADE SHOULD BE USED. COMMENCING WORK BY A CONTRACTOR OR SUBCONTRACTOR CONSTITUTES ACCEPTANCE OF THE CONDITIONS AND SURFACES CONCERNED. IF ANY SUCH CONDITIONS ARE UNACCEPTABLE, THE GENERAL CONTRACTOR SHALL BE NOTIFIED IMMEDIATELY, AND NO WORK SHALL BE PERFORMED UNTIL THE CONDITIONS ARE CORRECTED.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH THE PROJECT SCOPE OF WORK, BUILDING STANDARDS, SCHEDULE AND DEADLINES. THE CONTRACTOR SHALL FURTHER BE RESPONSIBLE FOR ADVISING THE OWNER OF ALL LONG LEAD ITEMS AFFECTING THE PROJECT SCHEDULE AND SHALL UPON REQUEST FROM THE OWNER, SUBMIT ORDER CONFIRMATIONS AND DELIVERY DATES FOR SUCH LONG LEAD ITEMS TO THE OWNER.

ALL CONTRACTOR OR SUPPLIER REQUESTS FOR SUBSTITUTIONS OF SPECIFIED ITEMS SHALL BE SUBMITTED, IN WRITING, ACCOMPANIED BY THE ALTERNATIVE PRODUCT INFORMATION, TO THE ARCHITECT, NO LATER THAT TEN (10) BUSINESS DAYS, PRIOR TO BID OPENING DATE. SUBSTITUTIONS SHALL ONLY BE CONSIDERED IF THEY DO NOT SACRIFICE QUALITY, FUNCTIONALITY, APPEARANCE OR WARRANTY. UNDER NO CIRCUMSTANCES WILL THE OWNER BE REQUIRED TO PROVE THAT A PRODUCT PROPOSED FOR SUBSTITUTION IS OR IS NOT OF EQUAL QUALITY TO THE PRODUCT SPECIFIED. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR SCALE THE DRAWINGS TO DETERMINE DIMENSIONS. REFER TO PLANS, SECTIONS AND DETAILS FOR ALL DIMENSIONAL INFORMATION.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF ALL SELECTED MATERIALS WHICH SHALL BE COMPLETE IN ALL RESPECTS PRIOR TO THE FINAL ACCEPTANCE, UNLESS OTHERWISE NOTED.

THE CONTRACTOR SHALL PRESERVE ALL PRINTED INSTRUCTIONS AND WARRANTY INFORMATION THAT IS PROVIDED WITH EQUIPMENT OR MATERIALS USED, AND DELIVER SAID PRINTED MATTER TO THE OWNER AT THE TIME OF SUBSTANTIAL COMPLETION. THE CONTRACTOR SHALL INSTRUCT THE OWNER IN THE PROPER USE OF THE EQUIPMENT FURNISHED BY THEIR TRADE.

GENERAL CONTRACTOR SHALL PROVIDE A THOROUGH CONSTRUCTION CLEANING AT PROJECT CLOSE OUT, PRIOR TO PUNCH LIST WALK THROUGH.

THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL FABRICATED ITEMS, AND PHYSICAL SAMPLES OF ALL FINISH MATERIALS SPECIFIED TO THE ARCHITECT FOR REVIEW.

REVIEWED SHOP DRAWINGS AND SUBMITTALS BY OTHERS SHALL NOT BE CONSIDERED AS PART OF THE CONTRACT DOCUMENTS. THE ARCHITECT ASSUMES NO RESPONSIBILITY FOR DRAWINGS, SCHEDULES, AND/OR SPECIFICATIONS FOR WORK ON THE PROJECT PREPARED BY OTHERS.

THE ARCHITECT WILL REVIEW ALL SHOP DRAWINGS, SUBMITTALS AND SAMPLES FOR CONFORMITY WITH THE CONTRACT DOCUMENTS AND RETURN THEM TO THE CONTRACTOR WITHIN SEVEN (7) WORKING DAYS EXCEPT AS MAY OTHERWISE BE PROVIDED FOR BY THE OWNER.

THE CONTRACTOR SHALL NOT REPRODUCE AND MARK UP ANY PART OF THE CONTRACT DOCUMENTS FOR SUBMITTAL AS A SHOP DRAWING. ANY SUCH SUBMITTAL WILL BE REJECTED.

ANY SUBMITTAL REQUIRED TO BE REVIEWED MORE THAN THE INITIAL REVIEW AND ONE (1) ADDITIONAL REVIEW, WILL BE CONSIDERED TO BE IN EXCESS OF THE SCOPE OF THE PROJECT. THE TIME REQUIRED FOR THIRD AND SUBSEQUENT REVIEWS OF A SUBMITTAL WILL BE PAID FOR BY THE CONTRACTOR TO THE ARCHITECT AT THE ARCHITECT'S STANDARD BILLING RATES, PLUS REIMBURSABLE EXPENSES.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ANY EXISTING CONDITIONS AND ALL CRITICAL DIMENSIONS ASSOCIATED WITH THE PROPOSED WORK. THE CONTRACTOR SHALL CONFIRM THAT ALL WORK OUTLINED WITHIN THE CONTRACT DOCUMENTS CAN BE ACCOMPLISHED AS SHOWN, PRIOR TO BID OPENING. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY CONDITIONS ENCOUNTERED WHICH MAY AFFECT BUILDING CODE COMPLIANCE, LIFE SAFETY, ISSUANCE OF CERTIFICATE OF OCCUPANCY, OR COMPLETION OF THE PROJECT AS DIRECTED IN THE CONTRACT DOCUMENTS.

NO ADDITIONAL FUNDS WILL BE APPROVED FOR WORK OMITTED FROM THE CONTRACTOR'S BID DUE TO LACK OF VERIFICATION BY THE CONTRACTOR, EXCEPT AS OTHERWISE APPROVED BY THE OWNER FOR WORK ASSOCIATED WITH HIDDEN CONDITIONS WHICH ARE NOT ACCESSIBLE PRIOR TO CONSTRUCTION.

REFER TO PROJECT MANUAL (WHEN APPLICABLE) FOR ADDITIONAL REQUIREMENTS AND DIRECTIONS.
ALL INTERIOR FINISHES SHALL COMPLY WITH CHAPTER EIGHT (8) OF THE INTERNATIONAL BUILDING CODE.

LIGHT GAGE METAL STUDS: STUDS, THEIR COMPONENTS AND THEIR CONNECTIONS SHALL BE ENGINEERED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED. THE ENGINEER SHALL AFFIX THEIR SEAL AND SIGNATURE TO SHOP DRAWINGS AND CALCULATIONS SUBMITTED FOR REVIEW.

STEEL REQUIRED TO TRANSMIT GRAVITY AND/OR LATERAL LOADS TO THE STRUCTURE NOT DETAILED ON THE STRUCTURAL DRAWINGS IS THE RESPONSIBILITY OF THE METAL STUD SUPPLIER TO DESIGN, DETAIL, PROVIDE AND INSTALL.

METAL STUDS SHALL BE DESIGNED TO SUPPORT THE LOADS SHOWN IN THE DESIGN DATA IN ADDITION TO THE WEIGHT OF THE MATERIALS ATTACHED TO THE METAL STUDS. METAL STUDS SHALL BE DESIGNED USING THE LOAD COMBINATIONS IN SECTION 1605.3.1 OF THE INTERNATIONAL BUILDING CODE, 2012 EDITION. NO INCREASE IN ALLOWABLE STRESS IS ALLOWED.

DEFLECTION DUE TO LATERAL LOAD SHALL BE LIMITED TO $\frac{1}{240}$ OF THE STUD SPAN. FOR CANTILEVERS, THE DEFLECTION DUE TO LATERAL LOAD AT THE END OF THE CANTILEVER SHALL BE LIMITED TO $\frac{1}{180}$ OF THE CANTILEVER DIMENSION.

METAL STUD MANUFACTURER SHALL DETERMINE FINAL LAYOUT AND GAUGE OF STUDS TO MEET THE ARCHITECTURAL AND STRUCTURAL REQUIREMENTS.

WHERE ROUGH CARPENTRY IS IN CONTACT WITH THE GROUND, EXPOSED TO WEATHER OR IN AREAS OF HIGH RELATIVE HUMIDITY PROVIDE FASTENERS AND ANCHORAGES WITH A HOT DIP ZINC COATING OF G90 COMPLYING WITH ASTM A153 OR PROVIDE FASTENERS AND ANCHORAGES OF TYPE 304 STAINLESS STEEL.

ALL WOOD SHEATHING TO BE FIRE TREATED UNLESS NOTED OTHERWISE.

ABBREVIATIONS

ACT	ACOUSTICAL CEILING TILE
ADDL	ADDITIONAL
AFF	ABOVE FINISHED FLOOR
ALUM	ALUMINUM
ANOD	ANODIZED
APP	APPROXIMATE
ARCH	ARCHITECT
AWT	ACOUSTICAL WALL TREATMENT
BLDG	BUILDING
BLKG	BLOCKING
B.O.	BOTTOM OF
BOT	BOTTOM
BRG	BEARING
CAB	CABINET
CJ	CONTROL JOINT
CL	CENTER LINE
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CONST	CONSTRUCTION
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
CPT	CARPET
CT	CERAMIC TILE
CW	COLD WATER
DET, DTL	DETAIL
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIM	DIMENSION
DWG(S)	DRAWING(S)
EA	EACH
EC	EXPOSED CEILING
EIFS	EXTERIOR INSULATION FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
ENG	ENGINEER
EQ	EQUAL
EQUIP	EQUIPMENT
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FIN	FINISH
FLR	FLOOR
FR	FIRE RETARDANT
FT	FEET
GA	GAUGE
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GYP BD	GYPSUM BOARD
HDWR	HARDWARE
HGT	HEIGHT
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HP	HIGH POINT
HVAC	HEATING, VENTILATING, AIR CONDITIONING
HW	HOT WATER
INSUL	INSULATION
JAN	JANITOR
JST	JOIST
JT	JOINT
KD	KNOCKDOWN
KIT	KITCHEN
LAM	LAMINATE
LAV	LAVATORY
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
MAS	MASONRY
MAT	MATERIAL
MAX	MAXIMUM
MB	MARKER BOARD
MECH	MECHANICAL
MEZZ	MEZZANINE
MFR	MANUFACTURER
MIN	MINIMUM
MO	MASONRY OPENING
MTL	METAL
NIC	NOT IN CONTRACT
NR	NOT RATED
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFD	OVERFLOW DRAIN
OH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
OTO	OUT TO OUT
PLAS LAM	PLASTIC LAMINATE
PLWD	PLYWOOD
PS	PROJECTION SCREEN
QT	QUARRY TILE
R	RISER
RA	RETURN AIR
RB	RESILIENT BASE
RD	ROOF DRAIN
REF	REFERENCE
REFR	REFRIGERATOR
REQD	REQUIRED
RO	ROUGH OPENING
SA	SUPPLY AIR
SCHED	SCHEDULE
SCMD	SOLID CORE METAL DOOR
SCWD	SOLID CORE WOOD DOOR
SEC	SECTION
SF	SQUARE FOOT
SIM	SIMILAR
SPECS	SPECIFICATIONS
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURAL
SUSP	SUSPENDED
TB	TACK BOARD
TEL	TELEPHONE
TLT	TOILET
T.O.	TOP OF
TRTD	TREATED
TV	TELEVISION
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
UR	URINAL
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VIF	VERIFY IN FIELD
VT	VINYL TILE
W/	WITH
W/O	WITHOUT
WB	WOOD BASE
WC	WATER CLOSET
WD	WOOD
WH	WATER HEATER
WP	WORKING POINT

SYMBOLS

(NOT ALL MAY APPLY)

- KEYED NOTE
- WINDOW OR GLAZED OPENING TAG
  IF WINDOW - W#
  IF STOREFRONT - SF#
  IF CURTAINWALL - CW#
- ACCESSORY TAG
- EQUIPMENT TAG
- FINISH TAG
- ROOM TAG
- ELEVATION TAG - INTERIOR OR EXTERIOR
- SECTION CUT AT AREAS SHOWN SMALL SCALE
- ENLARGED PLAN
- ELEVATION TARGET. FINISHED FLOOR = 0'-0" UNO
- REVISION
- PLAN OR TRUE NORTH
- BATT INSULATION - WIDTH OF FRAMING UNO
- FIRE EXTINGUISHER IN SEMI-RECESSED CABINET PROVIDED / INSTALLED BY GC
- SURFACE MOUNTED FIRE EXTINGUISHER PROVIDED / INSTALLED BY GC
- DOOR WITH DOOR NUMBER
- WINDOW OR GLAZED OPENING
- STUD FRAMED WALL - REFER TO INDEX SHEET FOR INFORMATION
- CMU WALL - REFER TO SECTIONS AND DETAILS
- BRICK WALL - REFER TO SECTIONS AND DETAILS
- CONCRETE WALL - REFER TO SECTIONS AND DETAILS
- EIFS OVER SUBSTRATE - REFER TO SECTIONS FOR WIDTH AND PROFILE
- EXISTING DOOR - REFER TO DOOR SCHEDULE
- EXISTING FRAMED WALL
- EXISTING WINDOW WITH SILL AND / OR STOOL
- DEMO'D DOOR
- DEMO'D WALL
- WALL TYPE
  WALL HEIGHT IF DESIGNATED ON PLANS. IF NOT, SEE WALL TYPES THIS SHEET

CODE ANALYSIS

APPLICABLE CODES

BUILDING CODE
2018 INTERNATIONAL BUILDING CODE

PLUMBING CODE
2017 INTERNATIONAL PLUMBING CODE

ELECTRICAL CODE
2017 NATIONAL ELECTRICAL CODE

FIRE CODE
2018 INTERNATIONAL FIRE CODE

MECHANICAL CODE
2018 INTERNATIONAL MECHANICAL CODE

FUEL GAS CODE
2018 FUEL GAS CODE

INDIANA HANDICAPPED ACCESSIBILITY CODE
2009 ANSI A117.1
ADA ACCESSIBILITY GUIDELINES

OCCUPANCY (OVERALL BUILDING)

CLASSIFICATION (302.1): S-1

OCCUPANCY (TENANT SPACE)

CLASSIFICATION (302.1): S-1
ACCESSORY USES (508.2.1): B
NON-SEPARATED USES (508.3.2): N/A
SEPARATED USES (508.3.3): N/A

AUTOMATIC SPRINKLER SYSTEM

SPRINKLER SYSTEM REQUIRED (903): YES
SPRINKLER SYSTEM PROVIDED: YES

ALLOWABLE BUILDING HEIGHT

TABULAR HEIGHT (503): FILL IN

ALLOWABLE BUILDING AREA

TABULAR AREA (503): FILL IN

BUILDING AREA INCREASE

INCREASE FOR SPRINKLERED BUILDING (506.3): FILL IN
UNLIMITED AREA (507): FILL IN
FRONTAGE INCREASE (506.2): FILL IN
If = (F/P - .25) x W / 30
TOTAL ALLOWABLE AREA WITH INCREASES: FILL IN
Aa = At + (At x If) + (At x Is)
Aa = FILL IN

ACTUAL BUILDING HEIGHT AND AREA

BUILDING AREA: FILL IN
BUILDING HEIGHT (FEET / # FLOORS): FILL IN

TABULAR OCCUPANT LOAD (1004.1.2)

OCCUPANT LOAD FACTOR: FILL IN

ACTUAL OCCUPANT LOAD (1004.1.2)

SQUARE FOOTAGE / OCCUPANT LOAD FACTOR: FILL IN
TOTAL OCCUPANTS: FILL IN

FIRE RESISTIVE REQUIREMENTS (601 AND 602)

CONSTRUCTION TYPE: NR
STRUCTURAL FRAME: NR
EXTERIOR BEARING WALLS: NR
INTERIOR BEARING WALLS NR
EXTERIOR NON-BEARING WALLS: NR
INTERIOR NON-BEARING WALLS NR
FLOOR CONSTRUCTION: NR
ROOF CONSTRUCTION: NR
SHAFTS: N/A

FIRE RESISTANCE RATED CONSTRUCTION (704, 601, 602)

RATED EXTERIOR WALLS: FILL IN
FIRE SEPARATION DISTANCE FILL IN
UNPROTECTED OPENING AREA: FILL IN

INTERIOR WALL AND CEILING FINISH REQUIREMENTS (803)

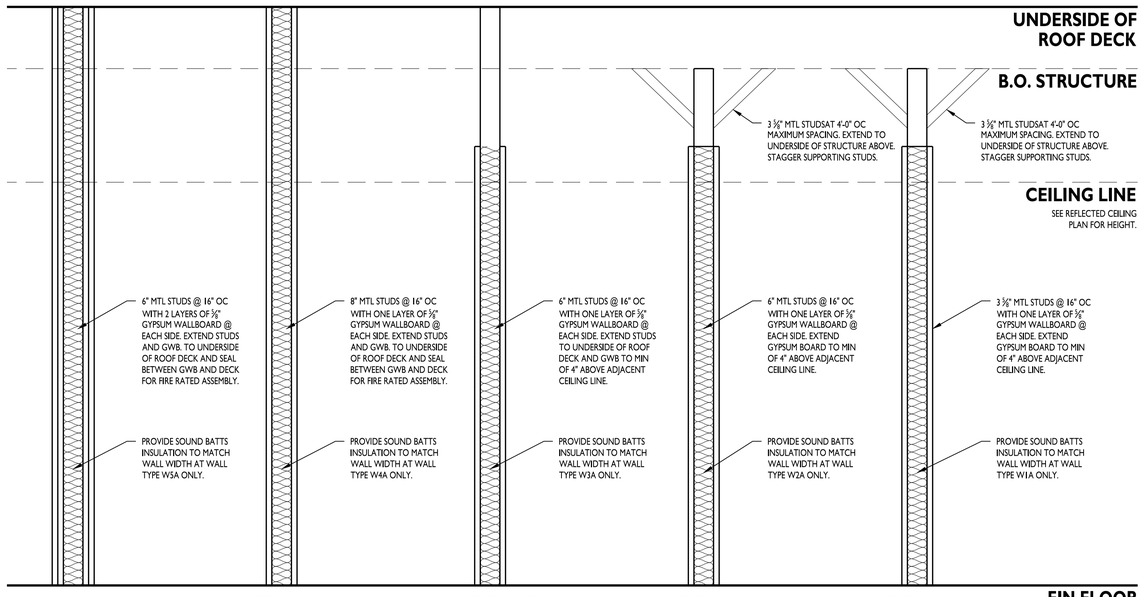
SEE FINISH SCHEDULE FOR MATERIALS
ALL MATERIALS ARE CLASS A RATED

FIRE PROTECTION SYSTEMS

STANDPIPE SYSTEM (905): FILL IN
PORTABLE FIRE EXTINGUISHERS (906.1): FILL IN
FIRE ALARM AND DETECTION SYSTEMS (907): FILL IN
SMOKE CONTROL SYSTEMS (909): FILL IN
SMOKE AND HEAT VENTS (910): FILL IN

EGRESS

MINIMUM WIDTH FACTOR (1005.1): FILL IN
REQUIRED MINIMUM WIDTH FROM SPACE (1005.1): FILL IN
MINIMUM NUMBER OF EXITS (1015): FILL IN
ACTUAL NUMBER OF EXITS: FILL IN
ACTUAL WIDTH OF EXITS: FILL IN
ALLOWABLE TRAVEL DISTANCE (1016.2): FILL IN
CORRIDOR CONSTRUCTION (1018.1): FILL IN
MINIMUM CORRIDOR WIDTH (1018.2): FILL IN
MAXIMUM DEAD END CORRIDOR (1018.4): FILL IN



WALL TYPE GENERAL NOTES

A. NOTE: WALL HEIGHT AS MARKED ON PLANS IN CONJUNCTION WITH WALL TYPE SYMBOL WILL SUPERCEDE WALL HEIGHTS AS SHOWN ABOVE. SEE SYMBOLS LEGEND THIS SHEET.

B. PROVIDE DEEP LEG DEFLECTION TRACK AT TOP OF ALL METAL STUD WALLS WHERE STUDS EXTEND TO UNDERSIDE OF ROOF DECK OR STRUCTURE ABOVE.

C. USE MOLD AND MILDEW RESISTANT GYPSUM WALLBOARD ON ALL PLUMBING WALLS. USE 5/8" CEMENT BOARD INSTEAD OF GYP BOARD BEHIND ALL TILE FINISHES.

D. BRACE METAL STUD WALLS TO TOP OF STRUCTURAL STEEL ELEMENTS-ABOVE CEILING PLANE. COORDINATE REQUIRED BRACE SPACING WITH STRUCTURAL ENGINEER PRIOR TO BEGINNING CONSTRUCTION.

E. REFER TO ROOM FINISH SCHEDULE FOR ALL FINISH SELECTIONS; CEILING TYPES AND HEIGHTS; AND TYPES, SIZES AND LOCATIONS ETC.

F. ALL STUD WALLS CREATING A CONCEALED WALL SPACE TO HAVE FIREBLOCKING AT INTERVALS NOT EXCEEDING 10'-0" PER 718.2.2 IBC 2012

WALL TYPES

NOT TO SCALE

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SCANNELL PROPERTIES

CERTIFICATION

STATE OF MISSOURI
SHAWN M. CURRAN
NUMBER A-8207
REGISTERED ARCHITECT

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING A LOT 1

NW CORNER OF
NE TUDOR RD & MAIN ST
LEE'S SUMMIT, MO 64086

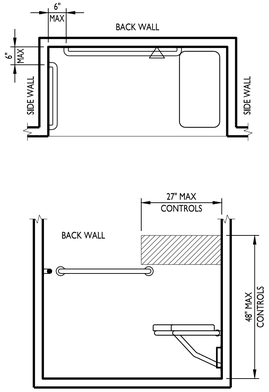
ISSUE DATES

PERMIT SET	02.18.22

210300

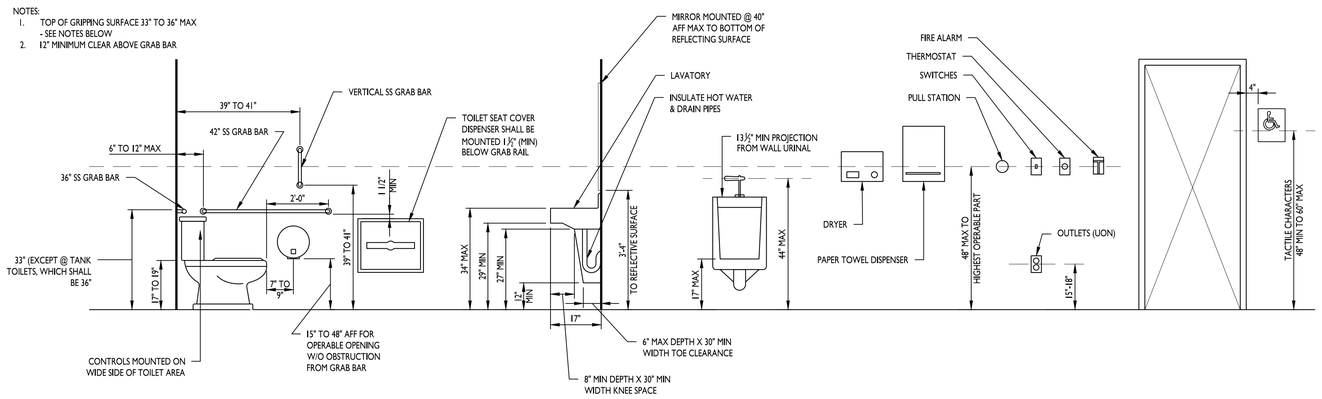
SCOPE NOTES

A001



SHOWER STALL DIMENSIONS 8

1/2" = 1'-0"



TYPICAL MOUNTING HEIGHTS 1

1/2" = 1'-0"

TYPICAL ADA INFO

WATER CLOSET: WATER CLOSETS SHALL BE 17" TO 19" AFF WHEN MEASURED TO THE TOP OF THE TOILET SEAT AND THE CENTER FOR THE FIXTURE SHALL BE 18" FROM ONE WALL WITH A CLEAR FLOOR SPACE OF 60" WIDE AND 59" DEEP FOR FLOOR MOUNT AND 56" DEEP FOR WALL MOUNT. FLUSH CONTROLS SHALL BE LOCATED ON THE OPEN SIDE OF THE WATER CLOSET.

SINK: SINK SHALL BE MOUNTED WITH THE RIM OR COUNTER NO HIGHER THAN 34" AFF PROVIDE A CLEARANCE OF AT LEAST 29" TO THE BOTTOM OF THE APRON WITH AN 8"X27" KNEE SPACE AND 6"X9" TOE SPACE. EXPOSED HOT WATER AND DRAIN PIPES UNDER SINKS SHALL BE INSULATED. FAUCETS SHALL BE LEVER-OPERATED, PUSH-TYPE AND MOTION SENSOR.

URINALS: URINALS SHALL BE STALL-TYPE OR WALL HUNG WITH THE RIM AT A MAXIMUM OF 17" AFF AND A 30" X 48" CLEAR FLOOR SPACE.

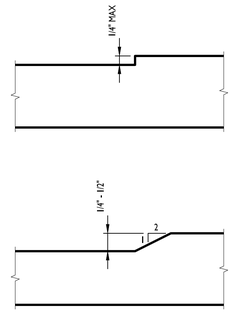
GRAB BARS: GRAB BARS SHALL BE 33" TO 36" AFF THE GRAB BAR BEHIND THE WATER CLOSET SHALL BE 36" LONG AND NO MORE THAN 6" OF OF THE SIDE WALL. THE SIDE WALL GRAB BAR SHALL BE 42" LONG AND 12" OFF THE BACK WALL.

MIRROR: MIRRORS SHALL BE MOUNTED SO THE BOTTOM OF THE REFLECTING SURFACE IS NO MORE THAN 40" AFF.

PAPER TOWEL/DRYER: PAPER TOWEL/ DRYERS SHALL BE MOUNTED NO HIGHER THAN 48" AFF.

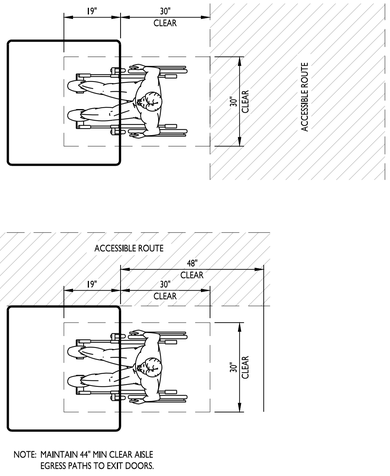
SOAP DISPENSER: SOAP DISPENSERS SHALL BE MOUNTED NO HIGHER THAN 48" AFF.

TOILET PAPER: TOILET PAPER DISPENSERS SHALL BE INSTALLED WITHIN 36" MAX OF THE BACK WALL.



FLOOR TRANSITIONS 9

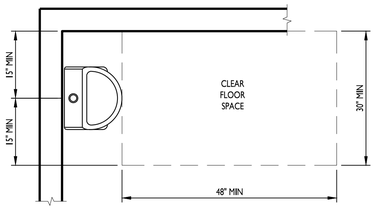
6" = 1'-0"



NOTE: MAINTAIN 44" MIN CLEAR AISLE EGRESS PATHS TO EXIT DOORS.

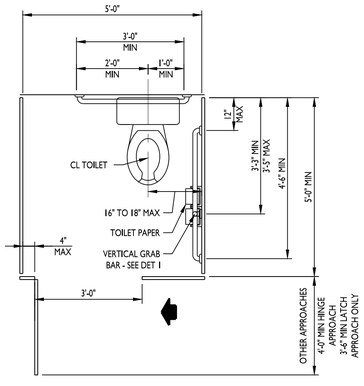
ACCESSIBLE ROUTES 6

1/2" = 1'-0"



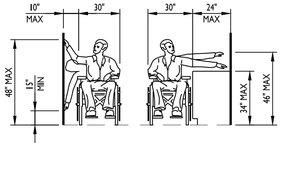
URINAL CLEAR SPACE 4

3/4" = 1'-0"



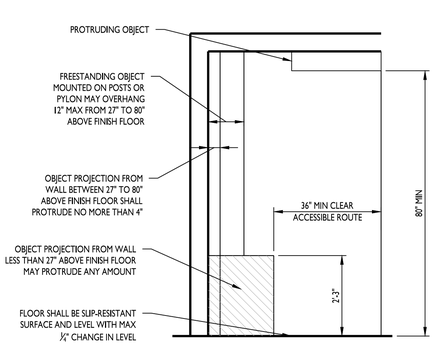
TOILET STALL DIMENSIONS 2

1/2" = 1'-0"



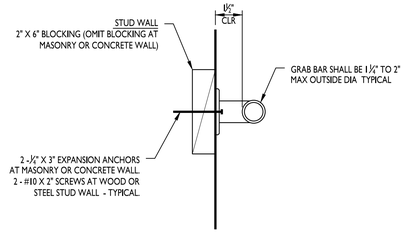
REACH RANGES 10

1/4" = 1'-0"



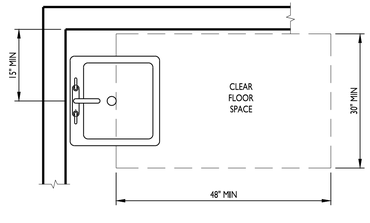
VERTICAL CLEARANCES 7

1/2" = 1'-0"



GRAB BAR DIMENSIONS 5

3" = 1'-0"



SINK CLEAR SPACE 3

3/4" = 1'-0"

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LEE'S SUMMIT, MO 64086

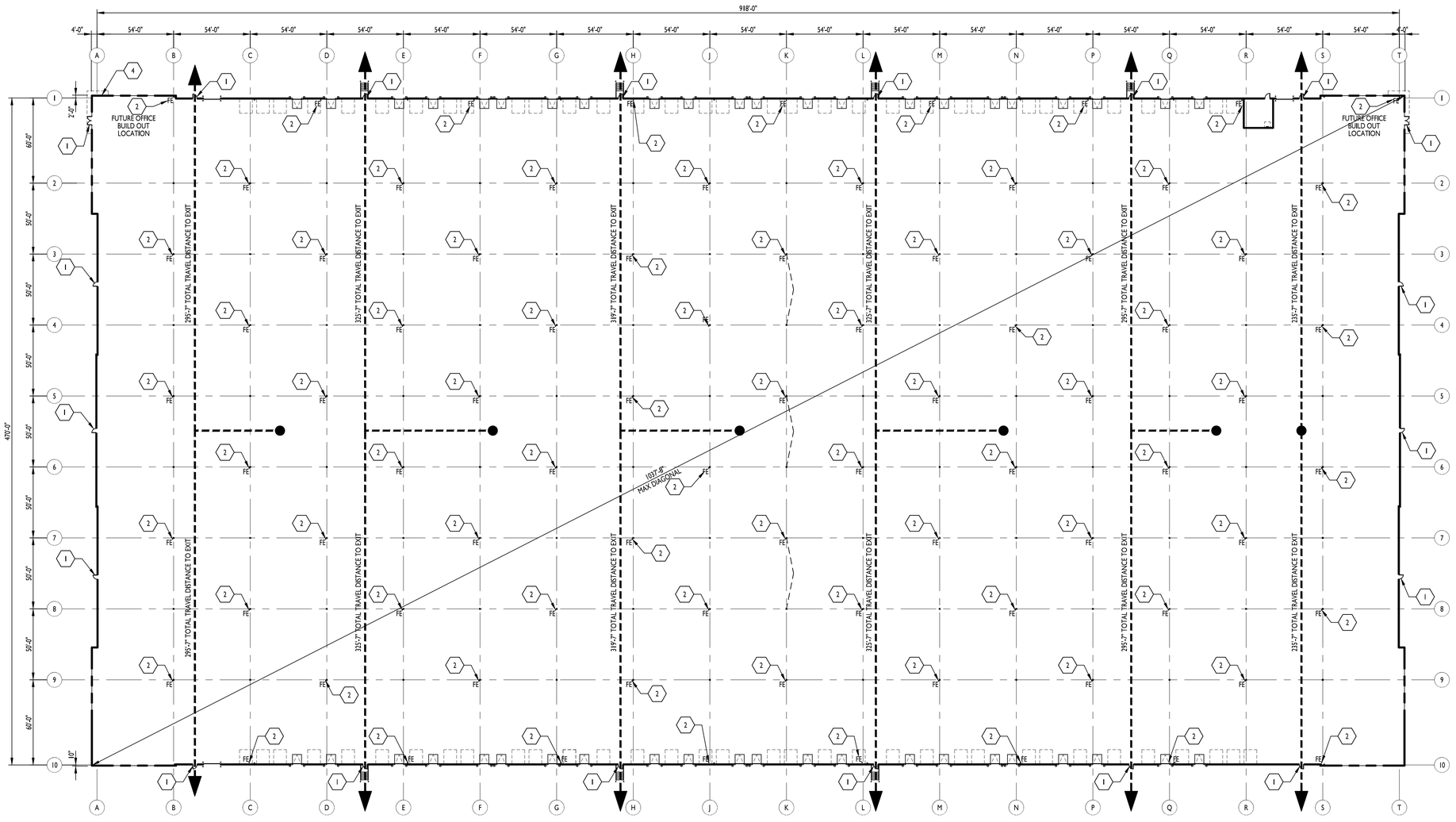
ISSUE DATES

PERMIT SET	02.18.22

210300

TYPICAL ACCESSIBILITY DETAILS

A002

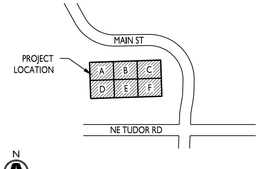


LIFE SAFETY PLAN 1" = 40'

N

KEYED NOTES

1. EXIT, EXIT SIGN, AND EMERGENCY LIGHTING ABOVE DOOR INTERIOR WITH BATTERY BACKUP. EXTERIOR EGRESS LIGHTING ABOVE DOOR TIED TO BATTERY BACK UP.
2. PROPOSED FIRE EXTINGUISHER LOCATION. VERIFY WITH FIRE MARSHAL. FINAL QUANTITY AND LOCATIONS TO BE DETERMINED WITH FINAL RACKING PLAN AND FIRE DEPARTMENT REVIEW.
3. SEE CIVIL PLANS AND FIRE PROTECTION PLANS FOR FIRE DEPARTMENT CONNECTION POINTS AND FIRE LINE LEAD INS THIS LOCATION.
4. PROVIDE BUILDING ADDRESS SIGNAGE THIS LOCATION. SIGNAGE TO BE 12" BELOW TOP OF PARAPET. SEE DOOR ID NOTES THIS SHEET. STREET NAME AND NUMBER TO BE PROVIDED.
5. THIS DOOR LABELLED "PUMP ROOM". SEE DOOR ID NOTES.
6. ONE-HOUR RATED PUMP ROOM. SEE FLOOR PLAN AND WALL TYPES.



KEY PLAN

CURRAN
ARCHITECTURE
5719 LAWTON LOOP E. DR. #212
INDIANAPOLIS, IN 46216
O :: 317 . 288 . 0681
F :: 317 . 288 . 0753

SCANNELL PROPERTIES

CERTIFICATION

STATE OF MISSOURI
SHAWN M. CURRAN
NUMBER A-8207
REGISTERED ARCHITECT

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING A LOT 1

NW CORNER OF
NE TUDOR RD & MAIN ST
LEE'S SUMMIT, MO 64086

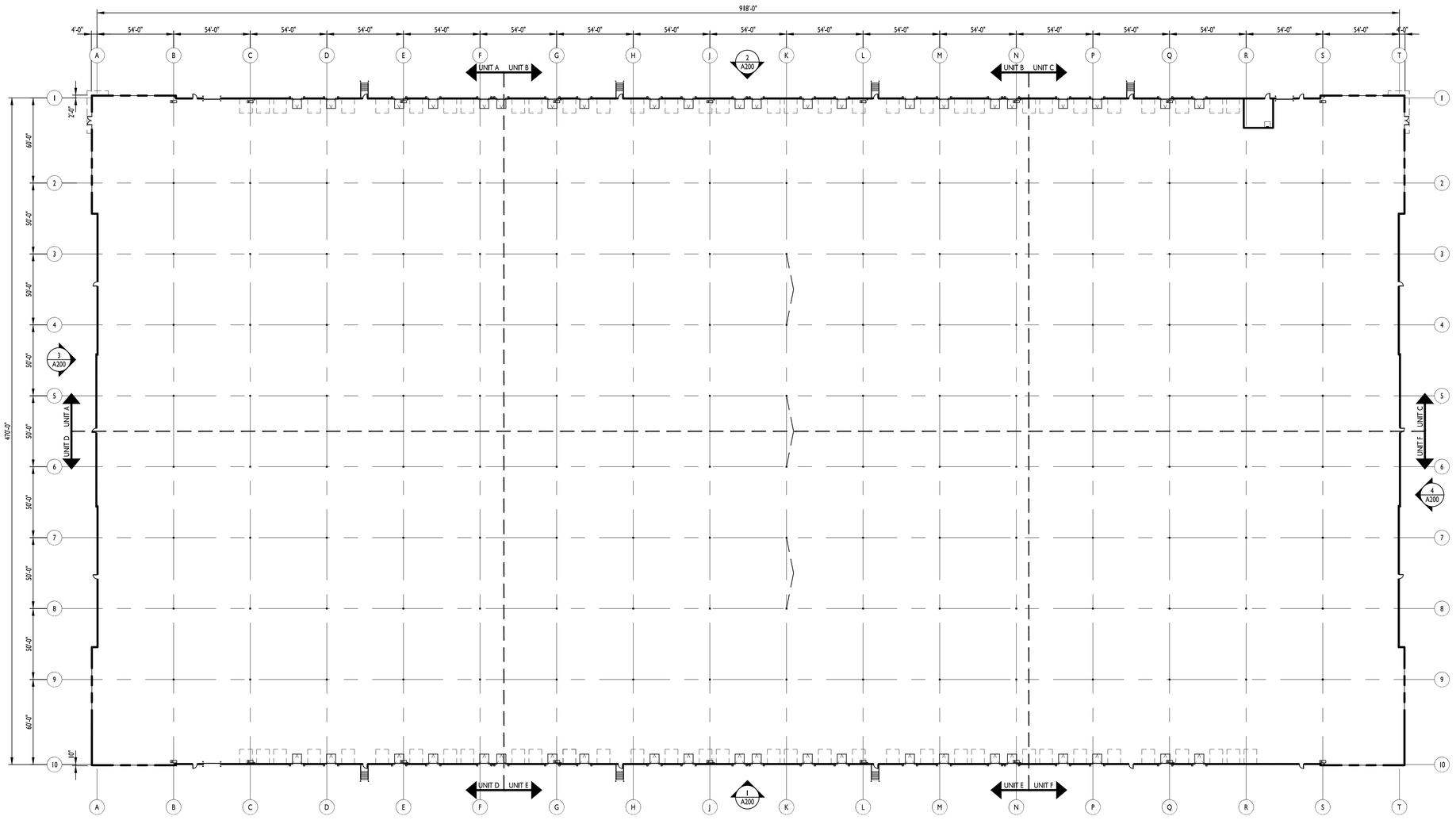
ISSUE DATES

PERMIT SET	02.18.22

210300

LIFE SAFETY PLAN

A100



OVERALL FLOOR PLAN 1" = 40'

N

GENERAL NOTES

A. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS AND JOB CONDITIONS. ANY DEVIATION FROM WHAT IS NOTED IN DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IMMEDIATELY.

B. ALL DIMENSIONS SHOWN ARE FACE OF BRICK, MASONRY OR METAL STUD FRAMING, UNLESS OTHERWISE NOTED.

C. PROVIDE DEEP LEG DEFLECTION TRACK AT ALL METAL STUD CONNECTIONS WITH STRUCTURE ABOVE, TYPICAL.

D. PROVIDE FIRE RATED WOOD BLOCKING IN METAL STUD WALLS FOR ANY WALL SUPPORTED ITEMS.

E. PROVIDE APPROVED FIRE RATED STOPPING MATERIALS IN ANY OPENINGS IN FIRE RATED ASSEMBLIES.

F. REFER TO DOOR AND WINDOW SCHEDULES FOR ALL MATERIALS, FINISHES, AND HARDWARE INFORMATION.

G. REFER TO EXTERIOR ELEVATIONS FOR ALL BRICK, MASONRY, AND OTHER EXPANSION JOINT LOCATIONS.

H. ALL MATERIALS LOCATED IN CEILING PLENUM SHALL BE RATED FOR SUCH INSTALLATION OR PROTECTED TO PROVIDE COMPLIANCE. THIS INCLUDES BUT IS NOT LIMITED TO INSULATION (FHC 25/50) POWER AND LOW VOLTAGE WIRING, TELECOMMUNICATIONS CABLING, PLUMBING SUPPLY AND DRAIN LINES AND SUPPORTING BRACKETS AND/OR BLOCKING FOR CEILING HUNG ITEMS.

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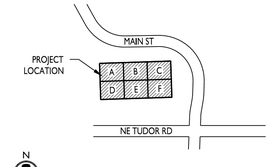
K. ALL DOORS, UNLESS OTHERWISE NOTED, TO HAVE HINGE SIDE SET 4" FROM CORNER SHOWN TO OUTSIDE OF FRAME.

L. UNLESS SPECIFIED ELSEWHERE, ALL INTERIOR SLABS AND SLAB INFILLS TO BE FF-50/FL-35 OVERALL AND FF-35/FL-25 LOCAL.

M. ALL EXIT DOORS TO HAVE TACTILE EXIT SIGNAGE PER 703.4 OF THE ANSI 117.1 2009



N

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LEE'S SUMMIT LOGISTICS
BUILDING A LOT 1

NW CORNER OF
NE TUDOR RD & MAIN ST
LEE'S SUMMIT, MO 64086

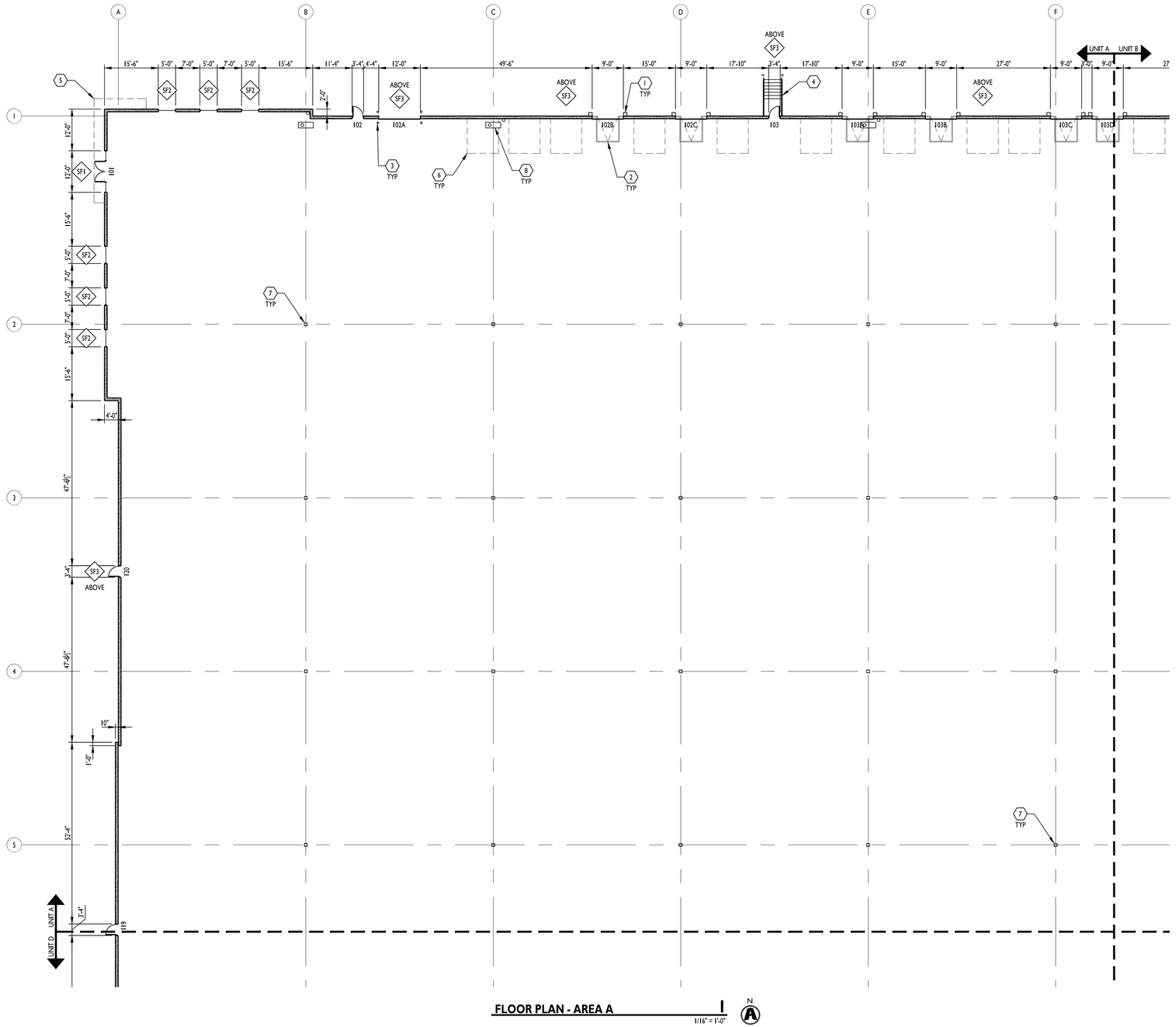
ISSUE DATES

PERMIT SET	02.18.22

210300

OVERALL FLOOR PLAN

A101



FLOOR PLAN - AREA A

1/16" = 1'-0"

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KEYED NOTES

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3. CONCRETE FILLED PIPE BOLLARDS.
4. GALVANIZED STEEL STAIRS. REFER TO 11/A502 & 12/A502.
5. METAL CANOPY ABOVE. REFER TO WALL SECTIONS & ELEVATIONS.
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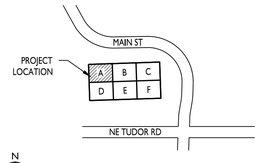
7. STEEL COLUMNS PROVIDE PANTED FINISH.
8. COORDINATE ROOF DRAIN LEADERS SO THAT IT IS CENTERED BETWEEN DOORS



KEY PLAN

CURRAN
ARCHITECTURE
5719 LAWTON LOOP E. DR. #212
INDIANAPOLIS, IN 46216
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F :: 317 . 288 . 0753

SCANNELL PROPERTIES

CERTIFICATION

STATE OF MISSOURI
SHAWN M. CURRAN
NUMBER A-8207
REGISTERED ARCHITECT

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS
BUILDING A LOT 1

NW CORNER OF
NE TUDOR RD & MAIN ST
LEE'S SUMMIT, MO 64086

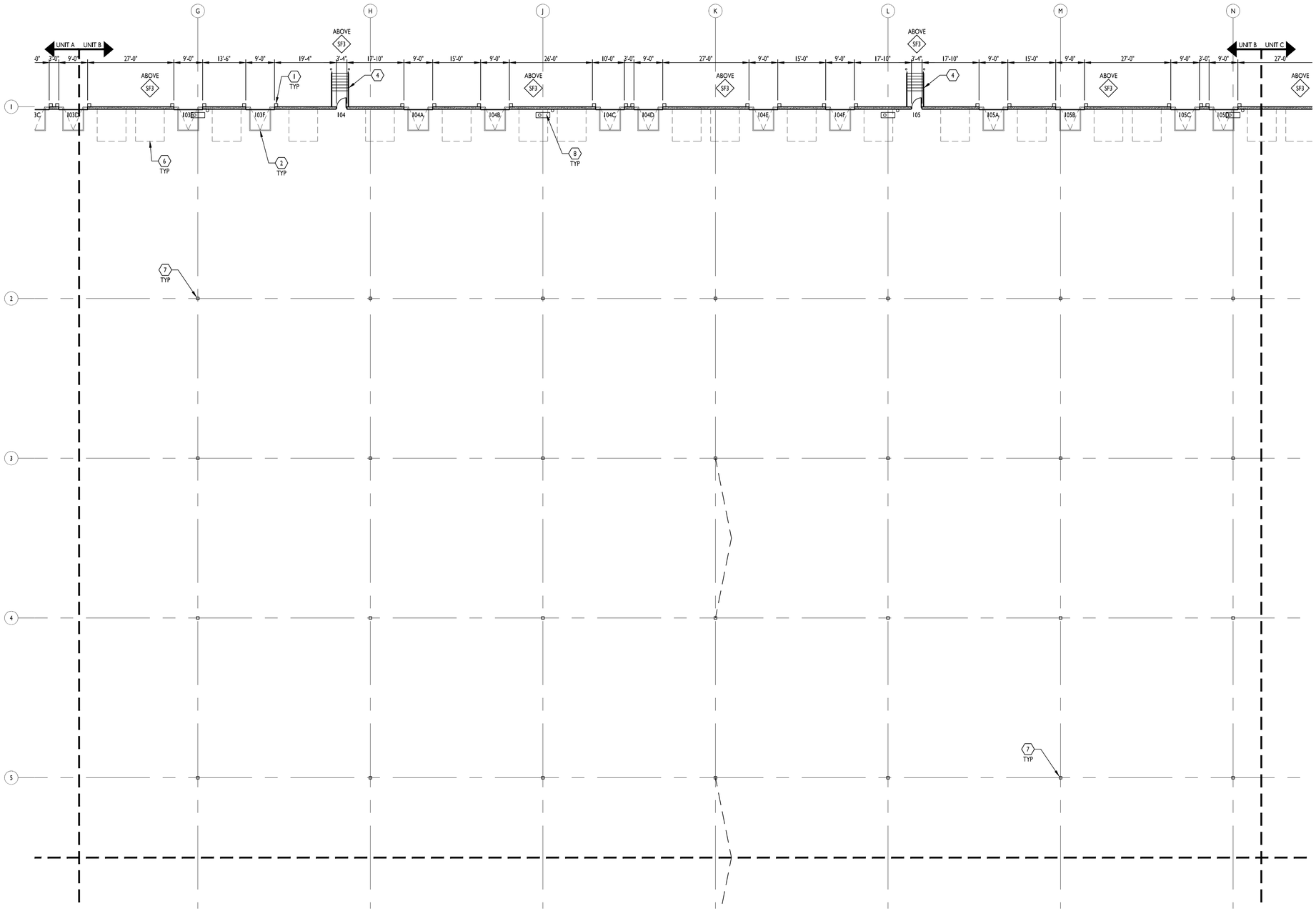
ISSUE DATES

PERMIT SET	02.18.22

210300

FLOOR PLAN
AREA A

A102



FLOOR PLAN - AREA B

1/16" = 1'-0"

GENERAL NOTES

A. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS AND JOB CONDITIONS. ANY DEVIATION FROM WHAT IS NOTED IN DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IMMEDIATELY.

B. ALL DIMENSIONS SHOWN ARE FACE OF BRICK, MASONRY OR METAL STUD FRAMING, UNLESS OTHERWISE NOTED.

C. PROVIDE DEEP LEG DEFLECTION TRACK AT ALL METAL STUD CONNECTIONS WITH STRUCTURE ABOVE, TYPICAL.

D. PROVIDE FIRE RATED WOOD BLOCKING IN METAL STUD WALLS FOR ANY WALL SUPPORTED ITEMS.

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KEYED NOTES

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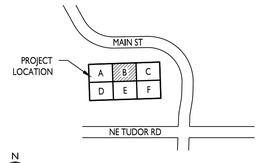


KEY PLAN

CURRAN
ARCHITECTURE
5719 LAWTON LOOP E. DR. #212
INDIANAPOLIS, IN 46216
O :: 317 . 288 . 0681
F :: 317 . 288 . 0753

SCANNELL PROPERTIES

CERTIFICATION

STATE OF MISSOURI
SHAWN M. CURRAN
NUMBER A-8207
REGISTERED ARCHITECT

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS
BUILDING A LOT 1

NW CORNER OF
NE TUDOR RD & MAIN ST
LEE'S SUMMIT, MO 64086

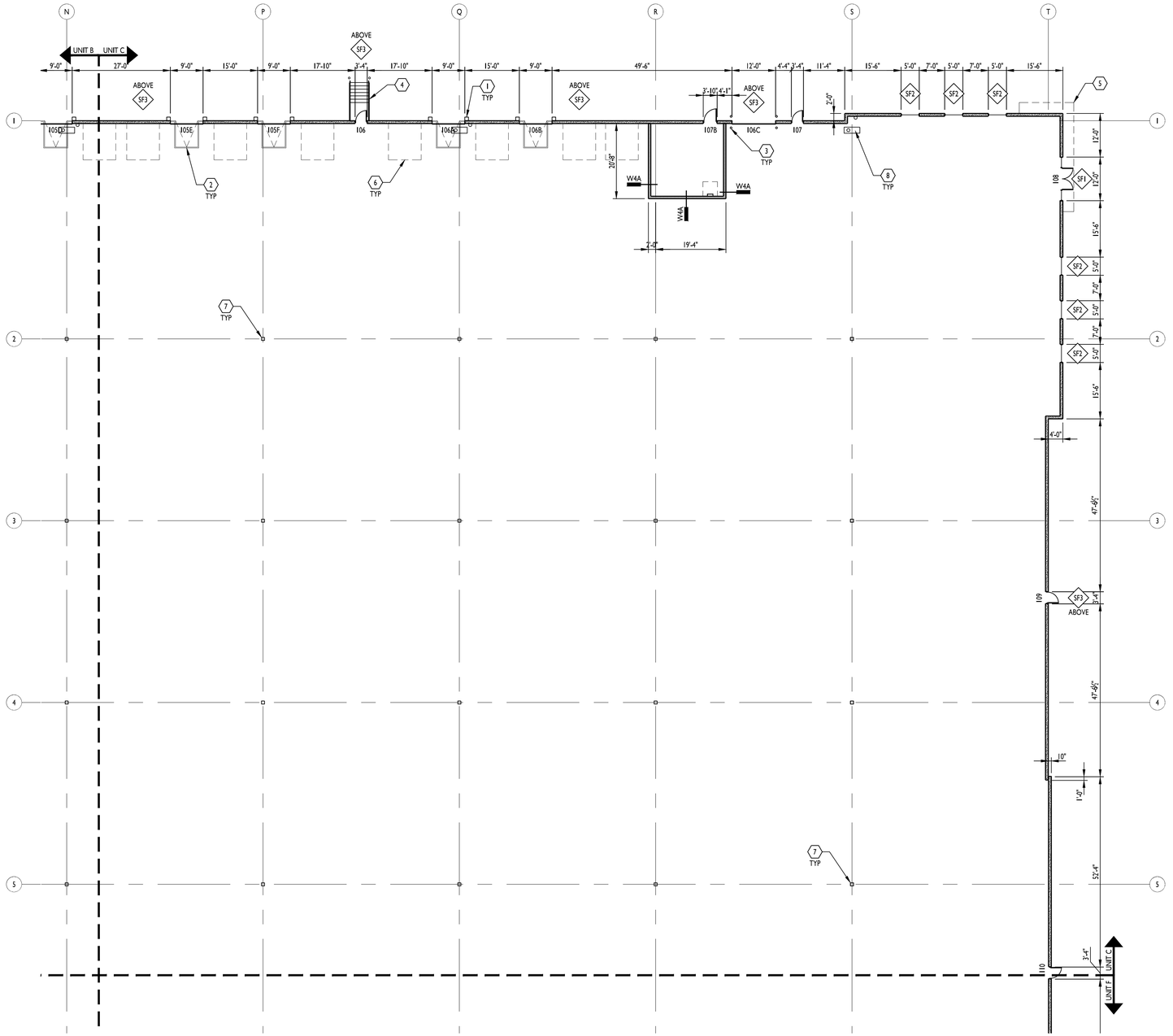
ISSUE DATES

PERMIT SET	02.18.22

210300

FLOOR PLAN
AREA B

A103



FLOOR PLAN - AREA C

1/16" = 1'-0"

GENERAL NOTES

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M. ALL EXIT DOORS TO HAVE TACTILE EXIT SIGNAGE PER 703.4 OF THE ANSI 117.1 2009

KEYED NOTES

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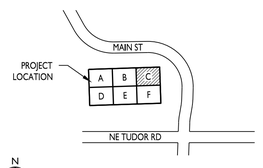

KEY PLAN

CURRAN
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5719 LAWTON LOOP E. DR. #212
INDIANAPOLIS, IN 46216
O :: 317 . 288 . 0681
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SCANNELL PROPERTIES

CERTIFICATION

STATE OF MISSOURI
SHAWN M. CURRAN
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PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS
BUILDING A LOT 1

NW CORNER OF
NE TUDOR RD & MAIN ST
LEE'S SUMMIT, MO 64086

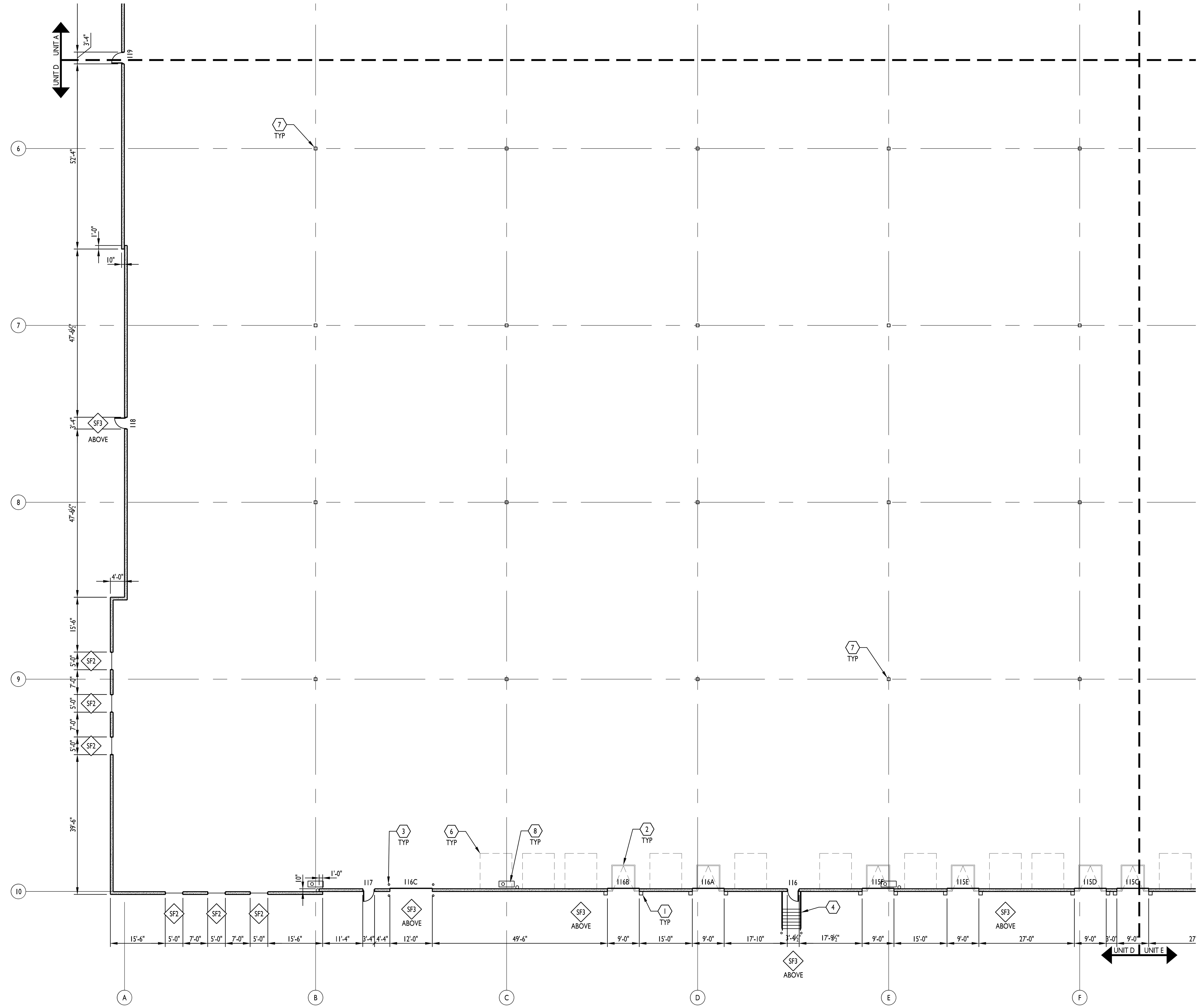
ISSUE DATES

PERMIT SET	02.18.22

210300

FLOOR PLAN
AREA C

A104



FLOOR PLAN - AREA D
1/16" = 1'-0"

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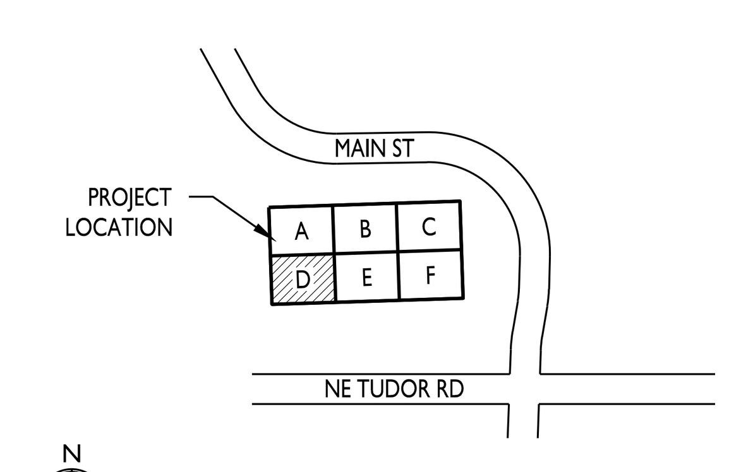

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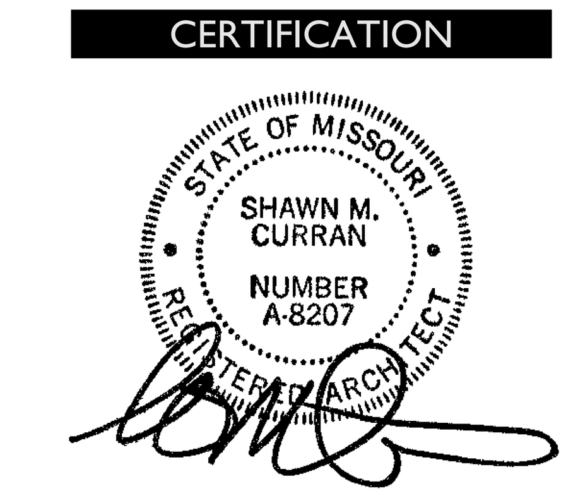


PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS
BUILDING A LOT 1

NW CORNER OF
NE TUDOR RD & MAIN ST
LEE'S SUMMIT, MO 64086

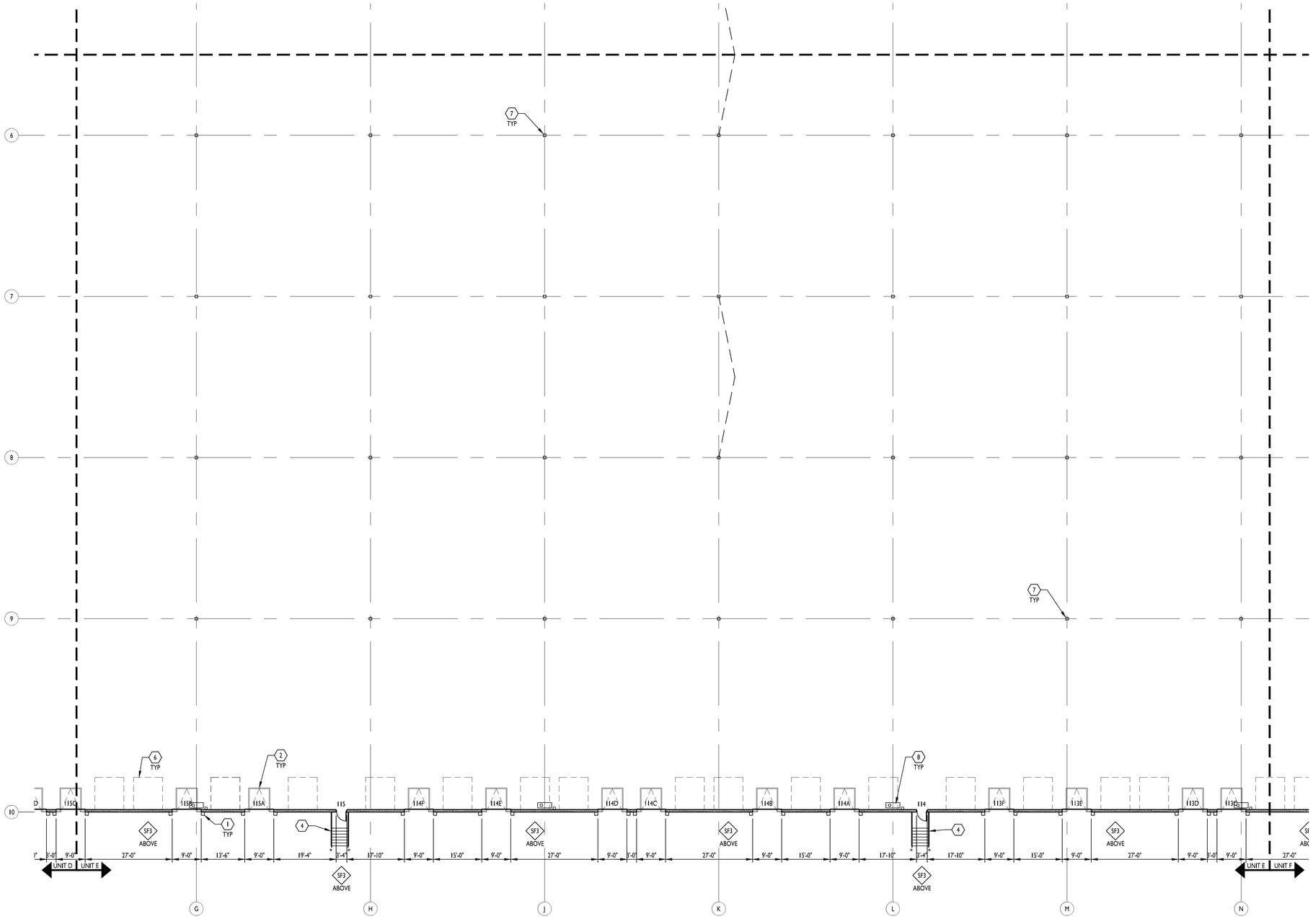
ISSUE DATES

PERMIT SET	02.18.22

210300

FLOOR PLAN
AREA D

A105



FLOOR PLAN - AREA E 1

1/16" = 1'-0"

N

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I. PRIOR TO ORDERING ANY PRODUCTS, CONTRACTOR SHALL SUBMIT SAMPLES TO THE ARCHITECT OF ALL FINISH MATERIALS TO BE USED ON THE PROJECT. THE CONTRACTOR SHALL BEAR SOLE RESPONSIBILITY FOR ANY MATERIALS ORDERED INCORRECTLY WHEN THAT MATERIAL WAS NOT REVIEWED BY THE ARCHITECT.

J. PROVIDE CONCRETE FILLED STEEL PIPE BOLLARDS AT ALL REQUIRED UTILITY EQUIPMENT LOCATIONS SUCH AS GAS METERS, ELECTRICAL TRANSFORMER PANELS, ETC., COORDINATE WITH UTILITY COMPANY AND CONTRACTORS, WHEN APPLICABLE, FOR NECESSARY LOCATIONS. REFER TO CIVIL DRAWINGS FOR BOLLARD SPECIFICATIONS AND ADDITIONAL INFORMATION.

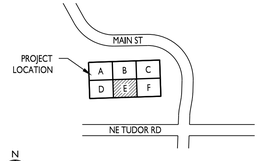
K. ALL DOORS, UNLESS OTHERWISE NOTED, TO HAVE HINGE SIDE SET 4" FROM CORNER SHOWN TO OUTSIDE OF FRAME.

L. UNLESS SPECIFIED ELSEWHERE, ALL INTERIOR SLABS AND SLAB INFILLS TO BE FF-50/FL-35 OVERALL AND FF-35/FL-25 LOCAL.

M. ALL EXIT DOORS TO HAVE TACTILE EXIT SIGNAGE PER 703.4 OF THE ANSI 117.1 2009

KEYED NOTES

1. DOCK SEALS.
2. DOCK LEVELER. COORDINATE W/ MANUFACTURER FOR SIZING AND SLAB PREP.
3. CONCRETE FILLED PIPE BOLLARDS.
4. GALVANIZED STEEL STAIRS. REFER TO 11/A502 & 12/A502.
5. METAL CANOPY ABOVE. REFER TO WALL SECTIONS & ELEVATIONS.
6. LOCATION OF FUTURE DOCK DOORS. PRECAST PANELS TO BE FABRICATED TO ALLOW FOR FUTURE REMOVAL OF CONCRETE IN THESE LOCATIONS. REFER TO ELEVATIONS FOR ADDITIONAL INFORMATION.
7. STEEL COLUMNS PROVIDE PANTED FINISH.
8. COORDINATE ROOF DRAIN LEADERS SO THAT IT IS CENTERED BETWEEN DOORS



N

KEY PLAN

CURRAN
ARCHITECTURE
5719 LAWTON LOOP E. DR. #212
INDIANAPOLIS, IN 46216
O :: 317 . 288 . 0681
F :: 317 . 288 . 0753

SCANNELL PROPERTIES

CERTIFICATION

STATE OF MISSOURI
SHAWN M. CURRAN
NUMBER A-8207
REGISTERED ARCHITECT

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING A LOT 1

NW CORNER OF
NE TUDOR RD & MAIN ST
LEE'S SUMMIT, MO 64086

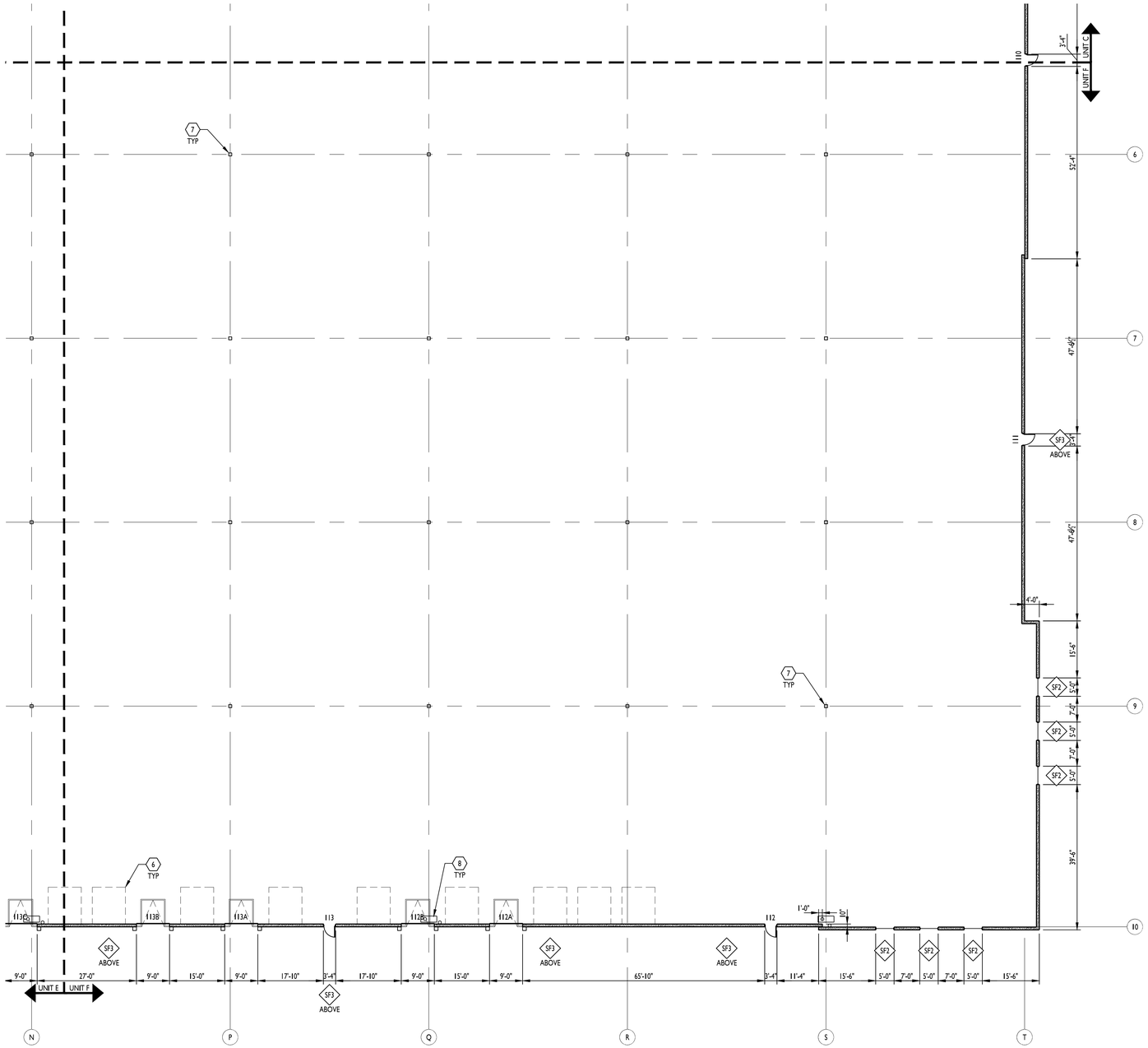
ISSUE DATES

PERMIT SET	02.18.22

210300

FLOOR PLAN
AREA E

A106



FLOOR PLAN - AREA F
1/16" = 1'-0"

GENERAL NOTES

A. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS AND JOB CONDITIONS. ANY DEVIATION FROM WHAT IS NOTED IN DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IMMEDIATELY.

B. ALL DIMENSIONS SHOWN ARE FACE OF BRICK, MASONRY OR METAL STUD FRAMING, UNLESS OTHERWISE NOTED.

C. PROVIDE DEEP LEG DEFLECTION TRACK AT ALL METAL STUD CONNECTIONS WITH STRUCTURE ABOVE, TYPICAL.

D. PROVIDE FIRE RATED WOOD BLOCKING IN METAL STUD WALLS FOR ANY WALL SUPPORTED ITEMS.

E. PROVIDE APPROVED FIRE RATED STOPPING MATERIALS IN ANY OPENINGS IN FIRE RATED ASSEMBLIES.

F. REFER TO DOOR AND WINDOW SCHEDULES FOR ALL MATERIALS, FINISHES, AND HARDWARE INFORMATION.

G. REFER TO EXTERIOR ELEVATIONS FOR ALL BRICK, MASONRY, AND OTHER EXPANSION JOINT LOCATIONS.

H. ALL MATERIALS LOCATED IN CEILING PLENUM SHALL BE RATED FOR SUCH INSTALLATION OR PROTECTED TO PROVIDE COMPLIANCE. THIS INCLUDES BUT IS NOT LIMITED TO INSULATION (FHC 25/50) POWER AND LOW VOLTAGE WIRING, TELECOMMUNICATIONS CABLING, PLUMBING SUPPLY AND DRAIN LINES AND SUPPORTING BRACKETS AND/OR BLOCKING FOR CEILING HUNG ITEMS.

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K. ALL DOORS, UNLESS OTHERWISE NOTED, TO HAVE HINGE SIDE SET 4" FROM CORNER SHOWN TO OUTSIDE OF FRAME.

L. UNLESS SPECIFIED ELSEWHERE, ALL INTERIOR SLABS AND SLAB INFILLS TO BE FF-50/FL-35 OVERALL AND FF-35/FL-25 LOCAL.

M. ALL EXIT DOORS TO HAVE TACTILE EXIT SIGNAGE PER 703.4 OF THE ANSI 117.1 2009

KEYED NOTES

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3. CONCRETE FILLED PIPE BOLLARDS.
4. GALVANIZED STEEL STAIRS. REFER TO 11/A502 & 12/A502.
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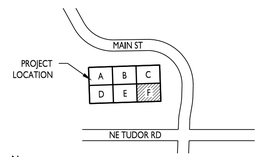
7. STEEL COLUMNS PROVIDE PANTED FINISH.
8. COORDINATE ROOF DRAIN LEADERS SO THAT IT IS CENTERED BETWEEN DOORS



KEY PLAN

CURRAN
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5719 LAWTON LOOP E. DR. #212
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F :: 317 . 288 . 0753

SCANNELL PROPERTIES

CERTIFICATION

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BUILDING A LOT 1

NW CORNER OF
NE TUDOR RD & MAIN ST
LEE'S SUMMIT, MO 64086

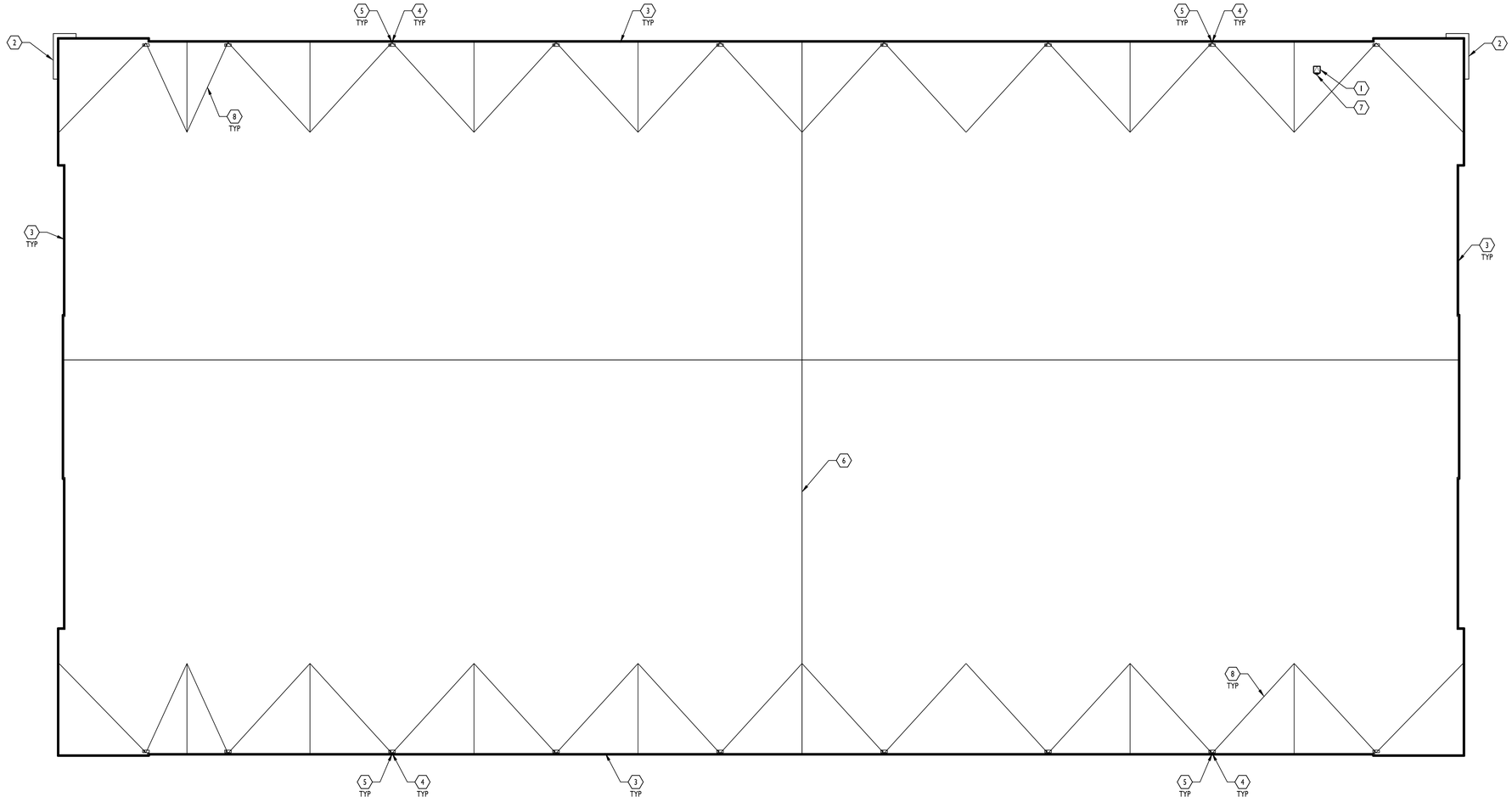
ISSUE DATES

PERMIT SET	02.18.22

210300

FLOOR PLAN
AREA F

A107



ROOF PLAN 1" = 40'

N

ROOF PLAN LEGEND

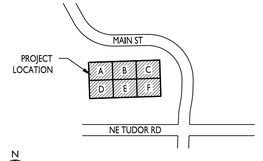
DENOTES TAPERED INSULATION OR ROOF CRICKETS TO ROOF DRAIN LOCATIONS. SLOPE MIN OF ¼"/FOOT AS INDICATED BY ARROWS OR TWICE THE AMOUNT OF THE UNDERLYING DECK WHICHEVER IS GREATER.

DENOTES ROOF SLOPE AT ¼" / FOOT MINIMUM.

ROOF TYPE #1 — MECHANICALLY FASTENED 45 MIL TPO MEMBRANE WITH RIGID POLYISOCYANURATE INSULATION AT MINIMUM OF R-20. INSULATION TO BE TWO LAYERS WITH STAGGERED JOINTS. MEMBRANE SHEETS RUN PERPENDICULAR TO THE DECK FLUTES. FOAM PERIMETER OF INSULATION. SEE DETAIL.

KEYED NOTES

1. 4' x 4' INSULATED ROOF HATCH. COORDINATE LOCATION WITH ROOF FRAMING BELOW. REFER TO A304 FOR DETAIL.
2. MANUFACTURED PAN & GUTTER AWING W/ SCUPPER DIRECTED TO LANDSCAPE BELOW. MAPES ILLUMIDECK OR EQUAL.
3. PREFINISHED METAL COPING WITH CONTINUOUS HOLD DOWN CLIP AT EDGE OF PANEL.
4. ROOF DRAINS, REFER TO ENGINEERING DRAWINGS.
5. OVERFLOW SCUPPER OPENING IN WALL. WRAP WITH ROOF MEMBRANE. BOTTOM OF OPENING TO BE AT 2" ABOVE ROOF MEMBRANE. COORDINATE FINAL LOCATION.
6. ROOF MANUFACTURER'S TYPICAL EXPANSION JOINT DETAIL COORDINATE PLACEMENT WITH ROOF FRAMING.
7. TAPERED INSULATION TO DIRECT WATER TO ROOF DRAINS.
8. LINE INDICATES APPROXIMATE LOCATION OF ROOF FRAMING, SLOPE TO DRAIN. SEE ROOF FRAMING PLANS.



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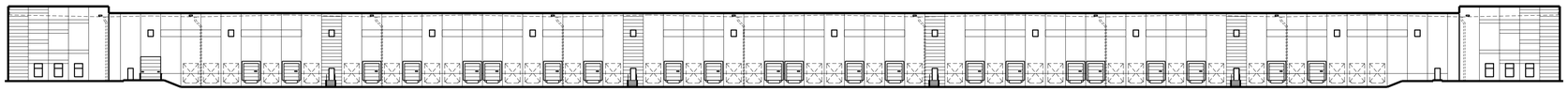
ISSUE DATES

PERMIT SET	02.18.22

210300

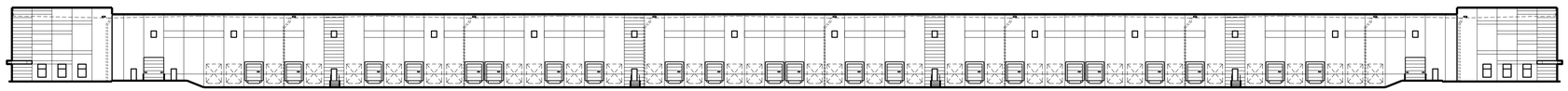
ROOF PLAN

A120



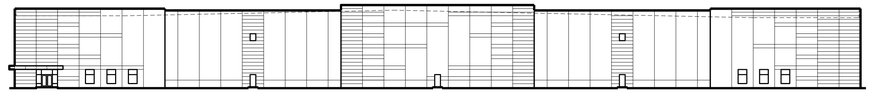
OVERALL SOUTH ELEVATION 1

1" = 40'



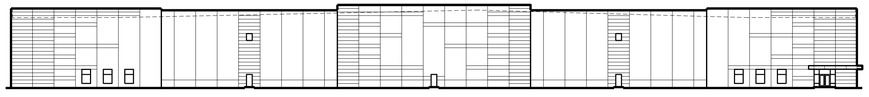
OVERALL NORTH ELEVATION 2

1" = 40'



OVERALL WEST ELEVATION 3

1" = 40'



OVERALL EAST ELEVATION 4

1" = 40'

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PERMIT SET	02.18.22

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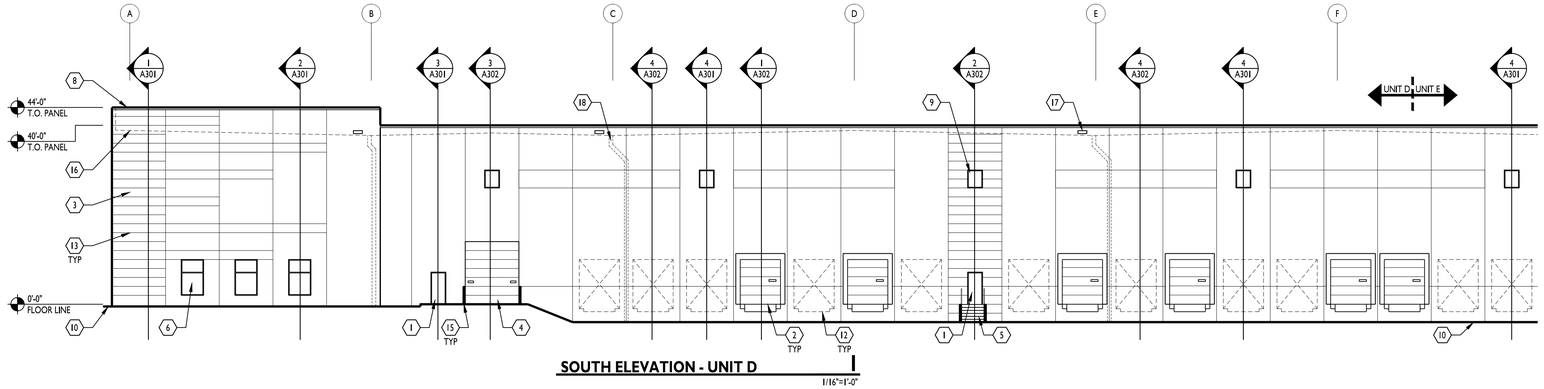
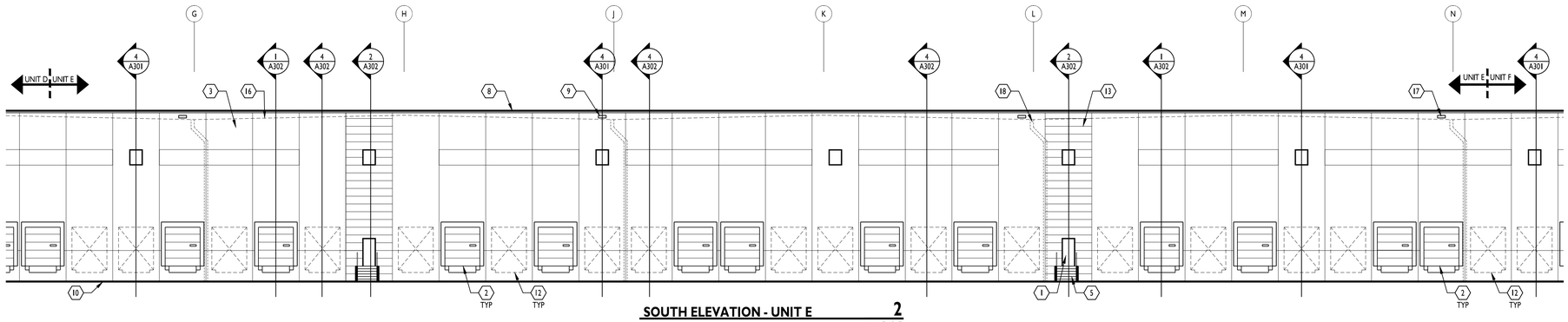
OVERALL EXTERIOR ELEVATIONS

A200



SOUTH ELEVATION - UNIT D

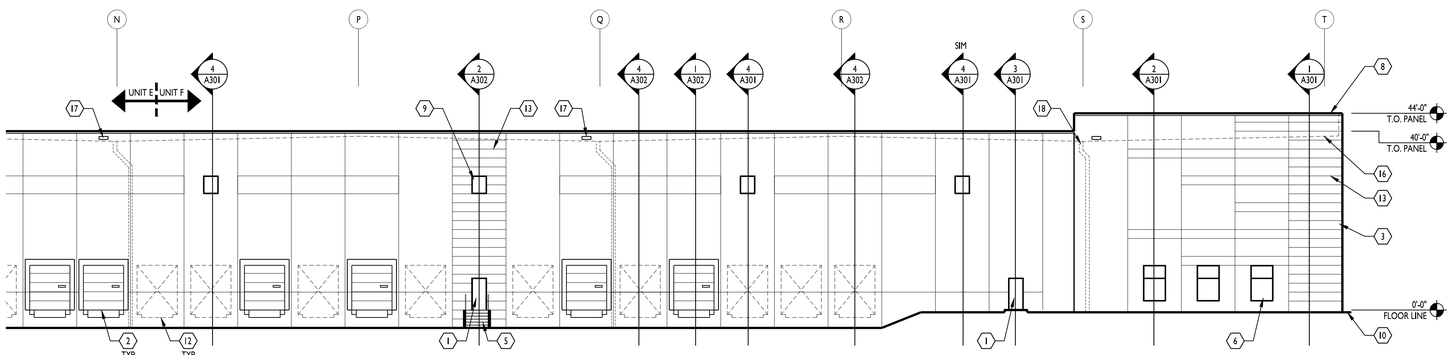
1/16"=1'-0"



SOUTH ELEVATION - UNIT E

2

1/16"=1'-0"



SOUTH ELEVATION - UNIT F

3

1/16"=1'-0"

GENERAL TILT WALL PAINT NOTES

A. CONCRETE TO CURE 30 DAYS PRIOR TO PAINT OR VERIFY PH LEVEL IS BETWEEN 6-8. IF PH IS HIGHER THAN 8, A PRIMER THAT IS TOLERANT OF A HIGH ALKALINE SUBSTRATE IS REQUIRED. VERIFY PRODUCT WITH PAINT MANUFACTURER DATA SHEETS FOR ACCEPTABLE MATERIALS TO MEET THE PH OF THE PANELS. TYPICAL LOXON PRIMERS. PROVIDE REPORT STATING PH LEVEL OF PANEL PRIOR TO PAINT APPLICATION.

B. TILT WALL CONTRACTOR TO VERIFY AND CONFIRM TO GENERAL CONTRACTOR THAT ALL BOND BREAKERS HAVE BEEN REMOVED FROM THE FACE OF THE CONCRETE VIA PRESSURE WASHING OR SAND BLASTING. PROCESS IS DEPENDENT ON THE TYPE OF BOND BREAKER USED. TILE WALL CONTRACTOR TO SUPPLY A LETTER CONFIRMING THAT BOND BREAKER IS REMOVED.

C. PRIOR TO PAINTING, VERIFY THAT PRECAST CONCRETE MOISTURE LEVEL IS 15% OR LOWER.

D. ALL ACRYLIC PAINTS TO BE 100% ACRYLIC SHERWIN WILLIAMS A-100, SUPER PAINT OR EQUAL.

E. ELASTOMERIC PAINTS WILL BE ACCEPTABLE. CONFLEX OR SHERLASTIC OR EQUAL. MUST BE APPLIED AT 10 MILS RO 30 + MILS WET. MUST APPLY TWO COATS. VERIFY PH REQUIREMENTS WITH DATA SHEETS.

F. BASE LINE SPECIFICATION FOR THIS PROJECT:
PRIMER COAT: LOXON SEALER A24W8300
SECOND COAT: A-100 EXTERIOR LATEX FLAT A6 SERIES

KEYED NOTES

1. INSULATED STEEL DOOR. SEE DOOR SCHEDULE. VERIFY PAINT COLOR WITH OWNER.
2. TYPICAL DOCK DOOR AND EQUIPMENT. SEE DOOR SCHEDULE
3. INSULATED TILT WALL CONCRETE PANEL W/ PAINTED FINISH. REVEALS CAST IN AS SHOWN. REFER TO WALL SECTIONS FOR ADDITIONAL DETAIL.
4. TYPICAL OVERHEAD DRIVE IN DOOR. SEE DOOR SCHEDULE.
5. DOCK STAIR AND BOLLARDS.
6. ANODIZED ALUMINUM STOREFRONT. LOW-E GLASS.
7. TYPICAL ANODIZED ALUMINUM STOREFRONT DOOR. GLASS AND ALUMINUM COLOR TO MATCH STOREFRONT. SEE DOOR SCHEDULE.
8. PRE-FINISHED COPING/ROOF EDGE. SEE ROOF PLAN.
9. ANODIZED ALUMINUM STOREFRONT CLERESTORY. LOW-E GLASS. SEE DOOR SCHEDULE. CENTERED IN PANEL.
10. GRADE LEVEL., SEE CIVIL PLANS FOR MORE INFORMATION.
11. MANUFACTURED PAN & GUTTER AWNING EQUAL TO MAPES LUMIDECK OR EQUAL. COORDINATE SCUPPER/DRAIN LOCATIONS IN THE FIELD WITH FINAL LANDSCAPE PLAN.
12. KNOCK OUT PANEL IN TILT WALL, CENTERED IN PANEL. SIZED FOR 9'-0" x 10'0." W/ REVEALS. PROVIDE REVEAL ALONG KNOCKOUT. 6" SOLID SECTION OF PANEL CENTERED ON REVEAL.
13. REVEALS @ CAST IN PANEL. SEE WALL SECTIONS FOR DETAIL & HEIGHTS.
14. WALL MOUNTED WALL PACK LIGHT FIXTURE MOUNTED AT 29'-8" AFF TO CENTER OF FIXTURE. SEE ELECTRICAL PLANS AND SITE LIGHTING PHOTOMETRIC PLANS FOR FURTHER INFORMATION. CENTER ON PANEL.
15. TYPICAL PAINTED STEEL BOLLARDS.
16. DASHED LINE INDICATES SLOPE OF ROOF LINE BEYOND. SEE ROOF PLAN FOR MORE INFORMATION.
17. 24" WIDE x 8" TALL OVERFLOW SCUPPER OPENING IN WALL. BOTTOM TO BE AT 34'-0" AFF WITH CENTER OF OPENING 48" AWAY FROM COLUMN LINE AS SHOWN. COORDINATE WITH FINAL ROOF FRAMING ELEVATIONS.
18. ROOF DRAIN ON INTERIOR SIDE OF PANEL. COORDINATE LOCATION TO BE CENTERED BETWEEN DOORS / KNOCKOUTS, AND TO AVOID CLERESTORY WINDOWS.

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ARCHITECTURE
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SCANNELL
PROPERTIES

CERTIFICATION

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PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING A LOT 1

NW CORNER OF
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LEE'S SUMMIT, MO 64086

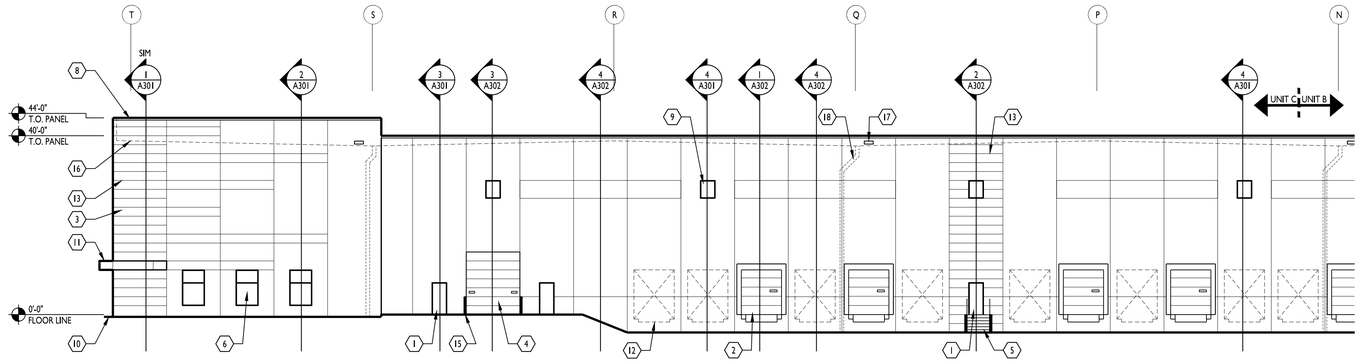
ISSUE DATES

PERMIT SET	02.18.22

210300

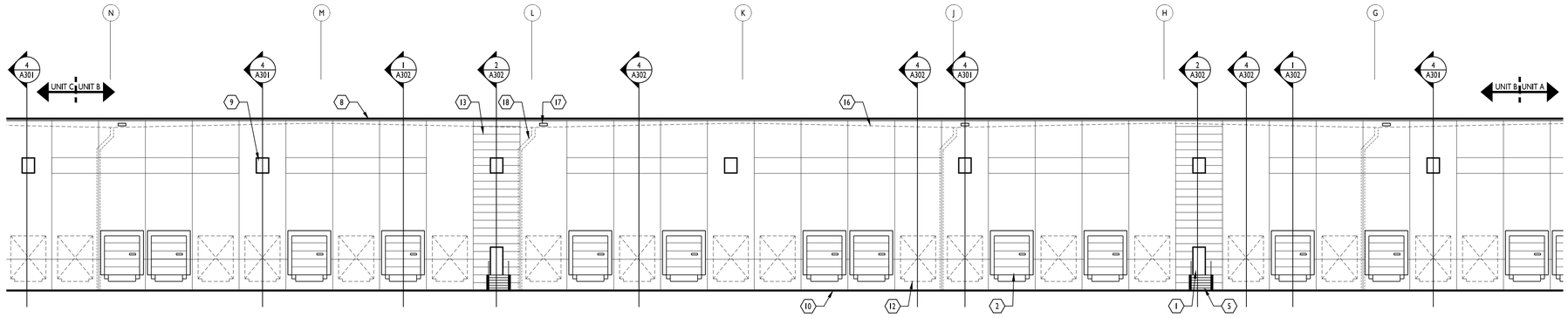
EXTERIOR ELEVATIONS

A201



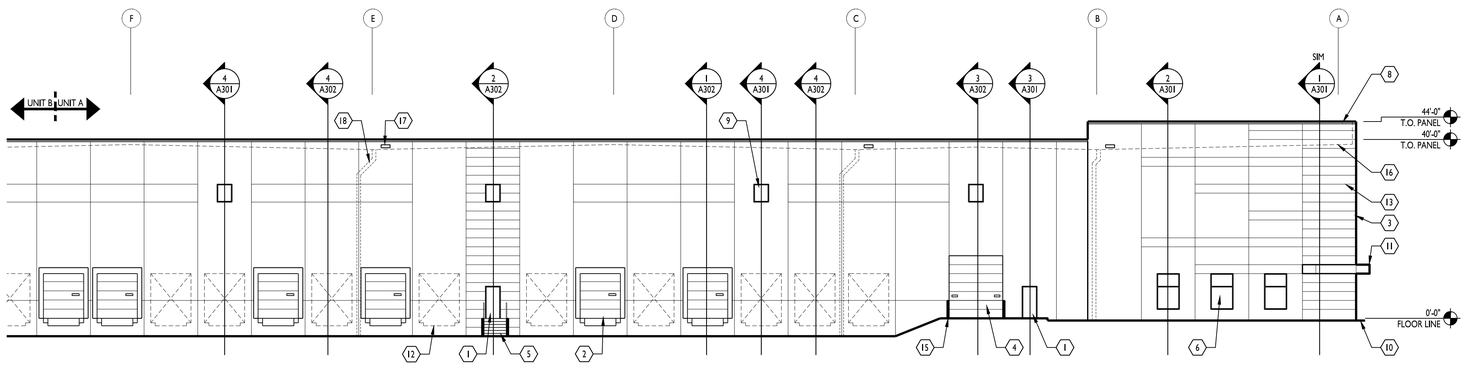
NORTH ELEVATION - UNIT C 1

1/16"=1'-0"



NORTH ELEVATION - UNIT B 2

1/16"=1'-0"



NORTH ELEVATION - UNIT A 3

1/16"=1'-0"

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SECOND COAT: A-100 EXTERIOR LATEX FLAT A6 SERIES

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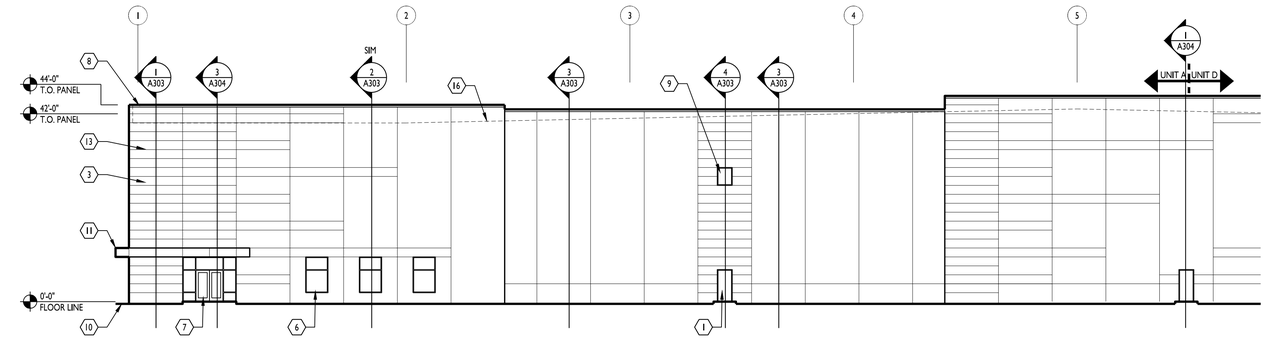
ISSUE DATES

PERMIT SET	02.18.22

210300

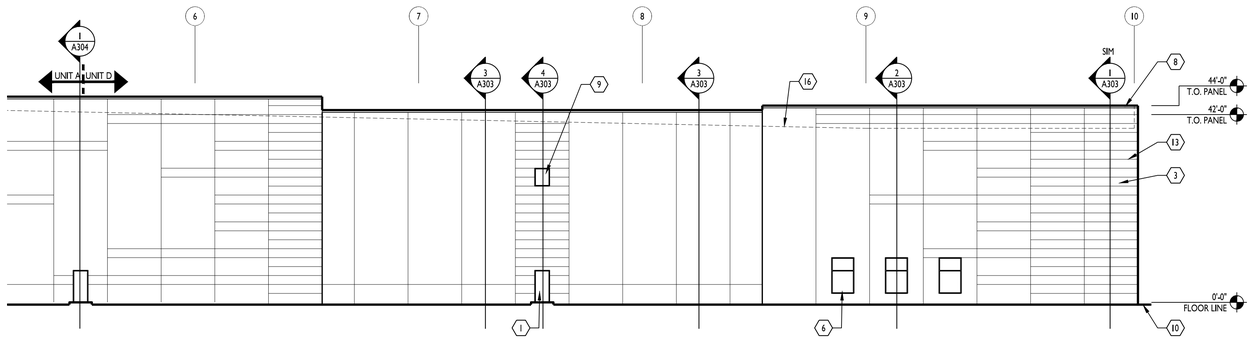
EXTERIOR ELEVATIONS

A202



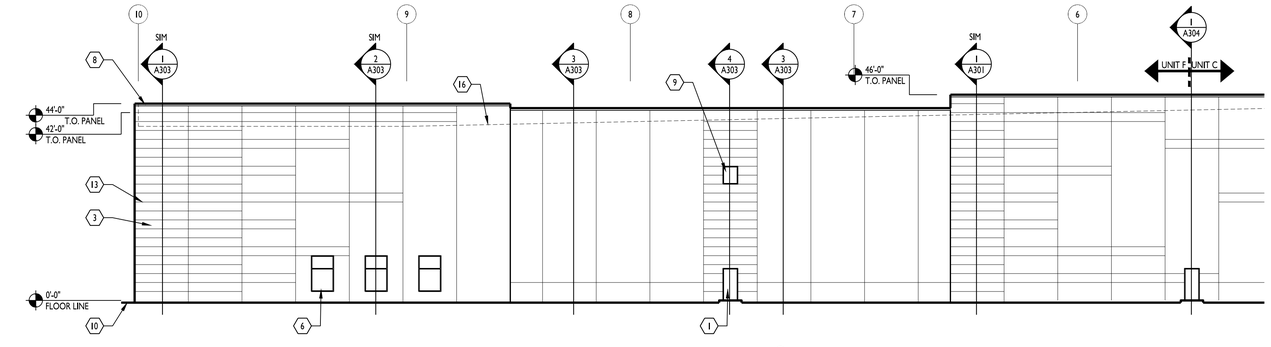
WEST ELEVATION - UNIT A **1**

1/16"=1'-0"



WEST ELEVATION - UNIT D **2**

1/16"=1'-0"



EAST ELEVATION - UNIT F **3**

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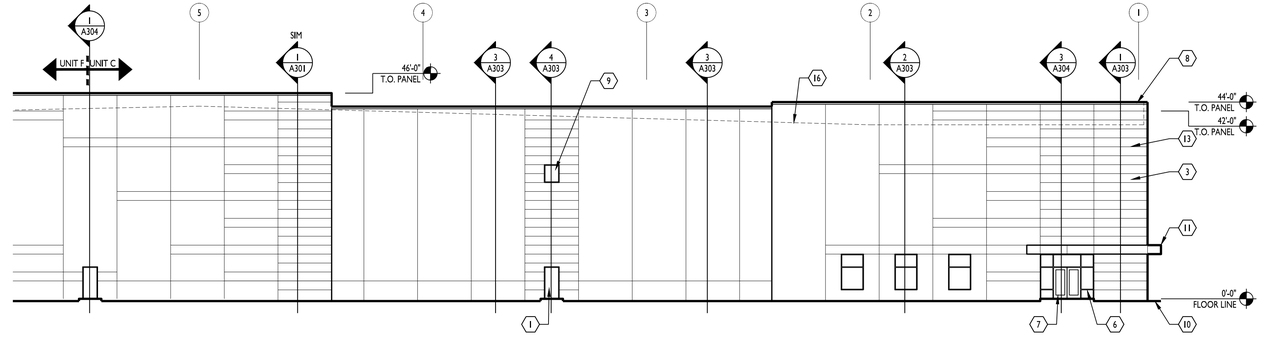

EAST ELEVATION - UNIT C **4**

1/16"=1'-0"

GENERAL TILT WALL PAINT NOTES

A. CONCRETE TO CURE 30 DAYS PRIOR TO PAINT OR VERIFY PH LEVEL IS BETWEEN 6-8. IF PH IS HIGHER THAN 8, A PRIMER THAT IS TOLERANT OF A HIGH ALKALINE SUBSTRATE IS REQUIRED. VERIFY PRODUCT WITH PAINT MANUFACTURER. DATA SHEETS FOR ACCEPTABLE MATERIALS TO MEET THE PH OF THE PANELS. TYPICAL LOXON PRIMERS. PROVIDE REPORT STATING PH LEVEL OF PANEL PRIOR TO PAINT APPLICATION.

B. TILT WALL CONTRACTOR TO VERIFY AND CONFIRM TO GENERAL CONTRACTOR THAT ALL BOND BREAKERS HAVE BEEN REMOVED FROM THE FACE OF THE CONCRETE VIA PRESSURE WASHING OR SAND BLASTING. PROCESS IS DEPENDENT ON THE TYPE OF BOND BREAKER USED. TILE WALL CONTRACTOR TO SUPPLY A LETTER CONFIRMING THAT BOND BREAKER IS REMOVED.

C. PRIOR TO PAINTING, VERIFY THAT PRECAST CONCRETE MOISTURE LEVEL IS 15% OR LOWER.

D. ALL ACRYLIC PAINTS TO BE 100% ACRYLIC SHERWIN WILLIAMS A-100, SUPER PAINT OR EQUAL.

E. ELASTOMERIC PAINTS WILL BE ACCEPTABLE. CONFLEX OR SHERLASTIC OR EQUAL. MUST BE APPLIED AT 10 MILS RO 30 + MILS WET. MUST APPLY TWO COATS. VERIFY PH REQUIREMENTS WITH DATA SHEETS.

F. BASE LINE SPECIFICATION FOR THIS PROJECT:
PRIMER COAT: LOXON SEALER A24W8300
SECOND COAT: A-100 EXTERIOR LATEX FLAT A6 SERIES

KEYED NOTES

1. INSULATED STEEL DOOR. SEE DOOR SCHEDULE. VERIFY PAINT COLOR WITH OWNER.
2. TYPICAL DOCK DOOR AND EQUIPMENT. SEE DOOR SCHEDULE
3. INSULATED TILT WALL CONCRETE PANEL W/ PAINTED FINISH. REVEALS CAST IN AS SHOWN. REFER TO WALL SECTIONS FOR ADDITIONAL DETAIL.
4. TYPICAL OVERHEAD DRIVE IN DOOR. SEE DOOR SCHEDULE.
5. DOCK STAIR AND BOLLARDS.
6. ANODIZED ALUMINUM STOREFRONT. LOW-E GLASS.
7. TYPICAL ANODIZED ALUMINUM STOREFRONT DOOR. GLASS AND ALUMINUM COLOR TO MATCH STOREFRONT. SEE DOOR SCHEDULE.
8. PRE-FINISHED COPING/ROOF EDGE. SEE ROOF PLAN.
9. ANODIZED ALUMINUM STOREFRONT CLERESTORY. LOW-E GLASS. SEE DOOR SCHEDULE. CENTERED IN PANEL.
10. GRADE LEVEL., SEE CIVIL PLANS FOR MORE INFORMATION.
11. MANUFACTURED PAN & GUTTER AWNING EQUAL TO MAPES LUMIDECK OR EQUAL. COORDINATE SCUPPER/DRAIN LOCATIONS IN THE FIELD WITH FINAL LANDSCAPE PLAN.
12. KNOCK OUT PANEL IN TILT WALL, CENTERED IN PANEL. SIZED FOR 9'-0" x 10'0-" W/ REVEALS. PROVIDE REVEAL ALONG KNOCKOUT. 6" SOLID SECTION OF PANEL CENTERED ON REVEAL.
13. REVEALS @ CAST IN PANEL. SEE WALL SECTIONS FOR DETAIL & HEIGHTS.
14. WALL MOUNTED WALL PACK LIGHT FIXTURE MOUNTED AT 29'-8" AFF TO CENTER OF FIXTURE. SEE ELECTRICAL PLANS AND SITE LIGHTING PHOTOMETRIC PLANS FOR FURTHER INFORMATION. CENTER ON PANEL.
15. TYPICAL PAINTED STEEL BOLLARDS.
16. DASHED LINE INDICATES SLOPE OF ROOF LINE BEYOND. SEE ROOF PLAN FOR MORE INFORMATION.
17. 24" WIDE x 8" TALL OVERFLOW SCUPPER OPENING IN WALL. BOTTOM TO BE AT 34'-0" AFF WITH CENTER OF OPENING 48" AWAY FROM COLUMN LINE AS SHOWN. COORDINATE WITH FINAL ROOF FRAMING ELEVATIONS.
18. ROOF DRAIN ON INTERIOR SIDE OF PANEL. COORDINATE LOCATION TO BE CENTERED BETWEEN DOORS / KNOCKOUTS, AND TO AVOID CLERESTORY WINDOWS.

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SHAWN M. CURRAN
NUMBER A-8207
REGISTERED ARCHITECT

PROJECT INFORMATION

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BUILDING A LOT 1

NW CORNER OF
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LEE'S SUMMIT, MO 64086

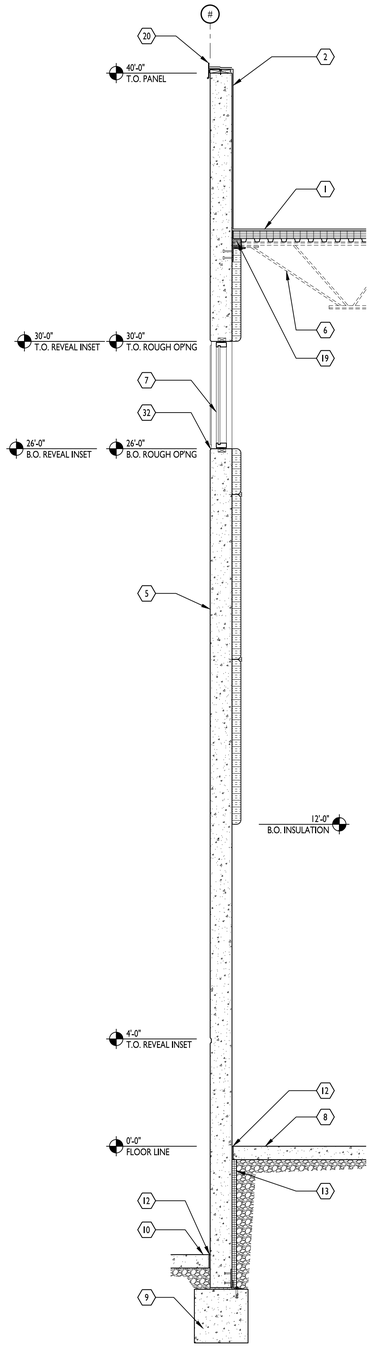
ISSUE DATES

PERMIT SET	02.18.22

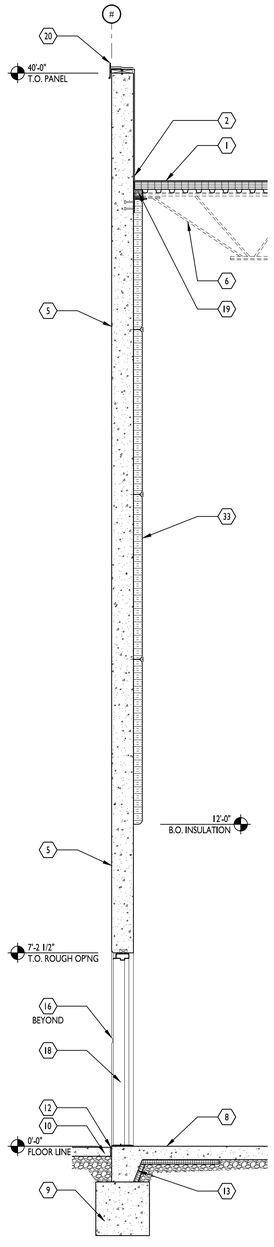
210300

EXTERIOR ELEVATIONS

A203



SECTION 4
3/8" = 1'-0"



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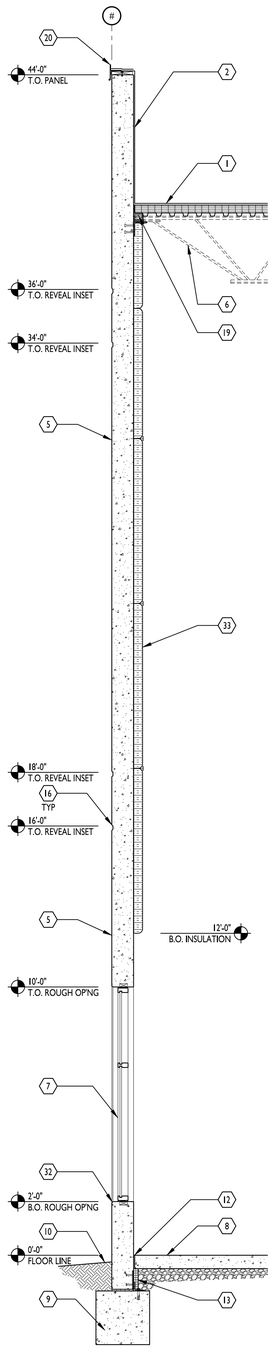

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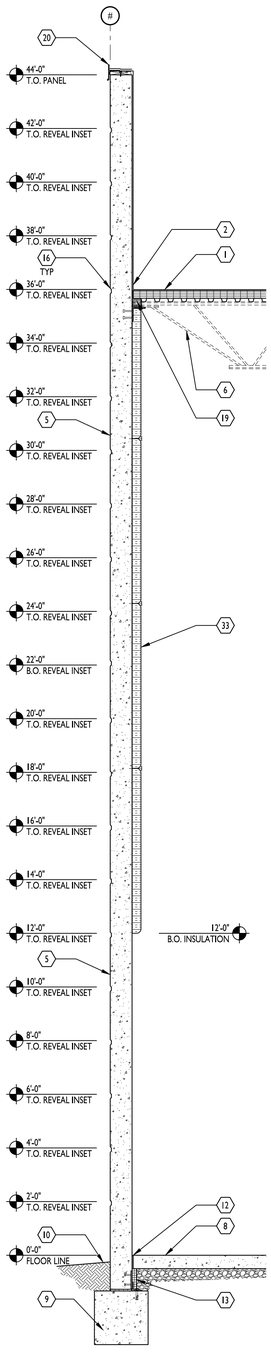

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3/8" = 1'-0"

KEYED NOTES

1. ROOF MEMBRANE AND INSULATION BOARD. SEE ROOF PLAN FOR INFORMATION. UNDERSIDE OF DECKING FACTORY FINISHED, COLOR WHITE. MINIMUM SLOPE 1/4 INCH PER FOOT. TYPICAL BUILDING ROOFING UNLESS NOTED OTHERWISE.
2. WRAP ROOF MEMBRANE UP BACK SIDE OF TILTWALL PANEL, OVER TREATED 2x BLOCKING ATTACHED TO TILTWALL PANEL. PROVIDE PRE-FINISHED METAL COPING WITH CONTINUOUS HOLD DOWN CLIP. FOR ALL ROOF EDGES UNLESS NOTED OTHERWISE.
3. DOCK SEAL AND DOCK BUMPER
4. PRE-FINISHED INSULATED STEEL OVERHEAD DOOR. REFER TO DOOR SCHEDULE
5. TYPICAL WALL PANELS: TILTWALL CONCRETE PANELS WITH STEEL FORM PAINT READY EXTERIOR FINISH. REFER TO 1/A301 FOR TYPICAL VERTICAL SPACING OF REVEALS. REFER TO ELEVATIONS FOR SPECIFIC REVEAL LAYOUT PER PANEL.
6. STRUCTURAL STEEL FRAMING. REFER TO ENGINEERING DRAWINGS. COORDINATE STRUCTURAL WITH TILTWALL MANUFACTURER. ORIENTATION OF FRAMING MAY VARY PER SECTION. REFER TO STRUCTURAL DRAWINGS FOR MORE INFORMATION
7. THERMALLY BROKEN ALUMINUM STOREFRONT FRAMING WITH 1" INSULATED TINTED GLASS. REFER TO STOREFRONT ELEVATIONS FOR MORE INFORMATION.
8. CONCRETE SLAB ON GRADE. SEE STRUCTURAL.
9. REINFORCED CONCRETE FOUNDATION. SEE STRUCTURAL.
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11. PROVIDE HINGED LOCKING GATE ON LADDER.
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PERMIT SET	02.18.22

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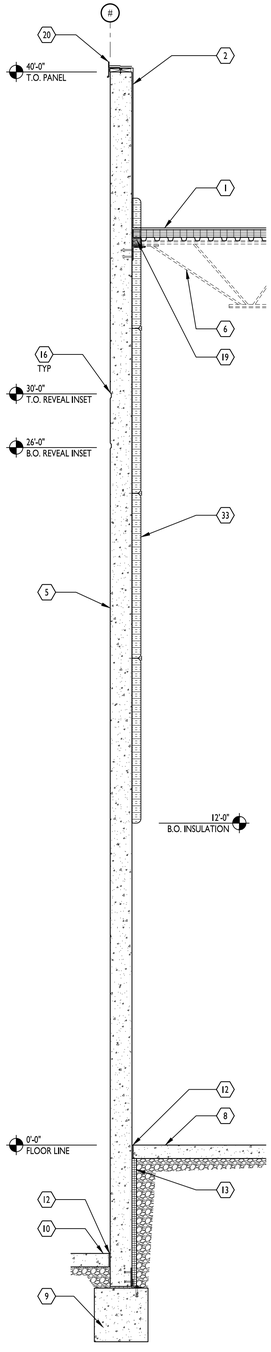
WALL SECTIONS

A301



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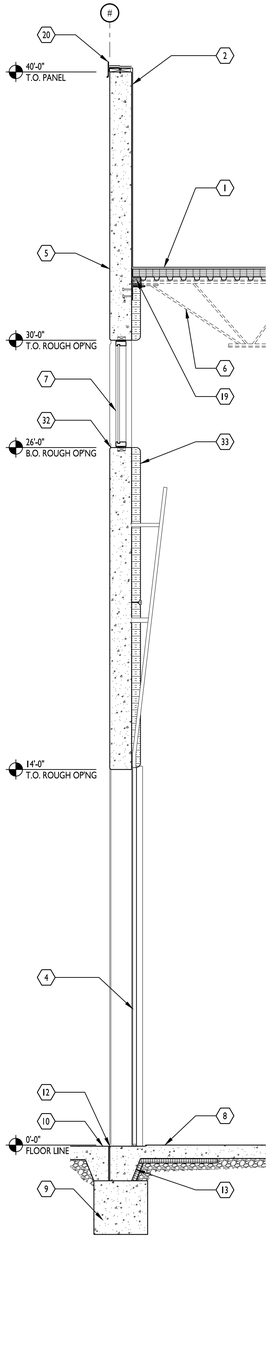

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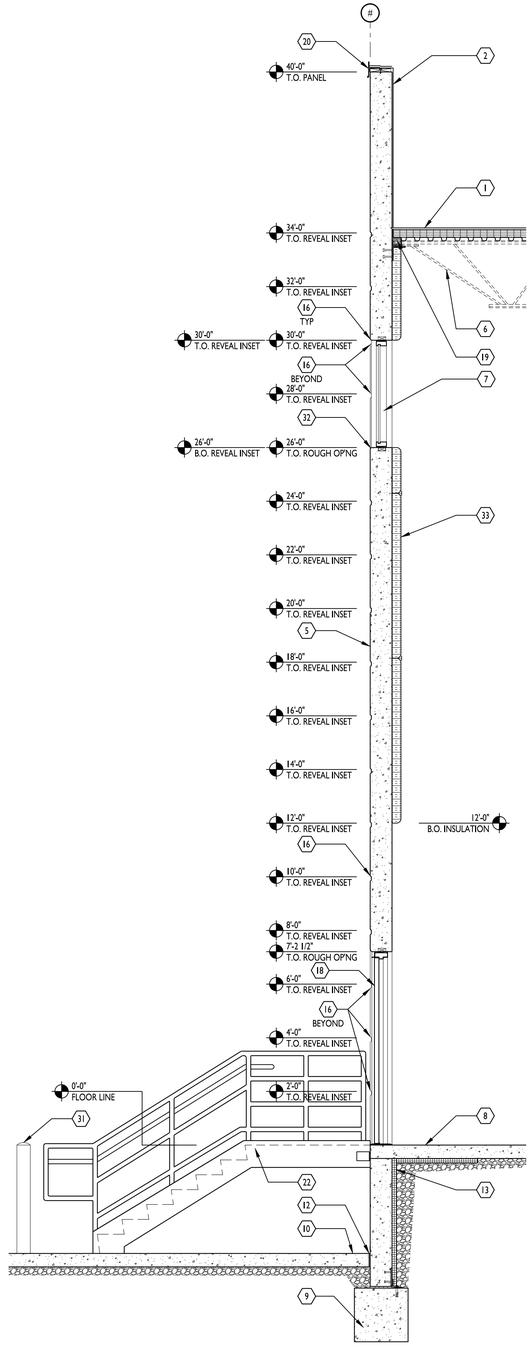

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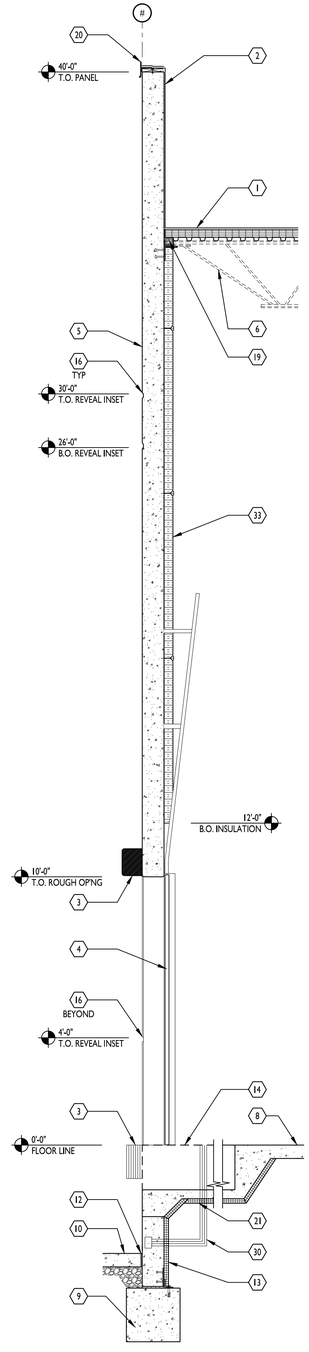

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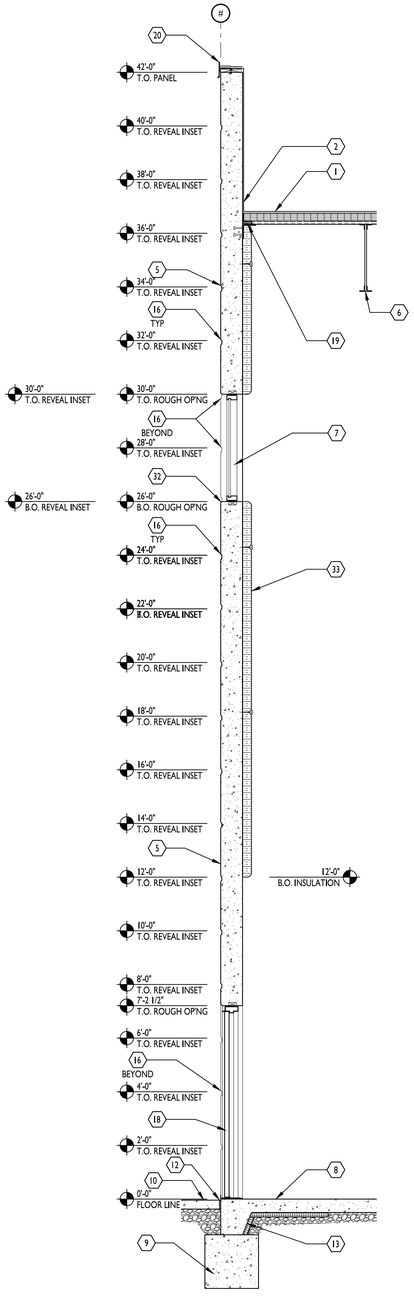
WALL SECTIONS

A302



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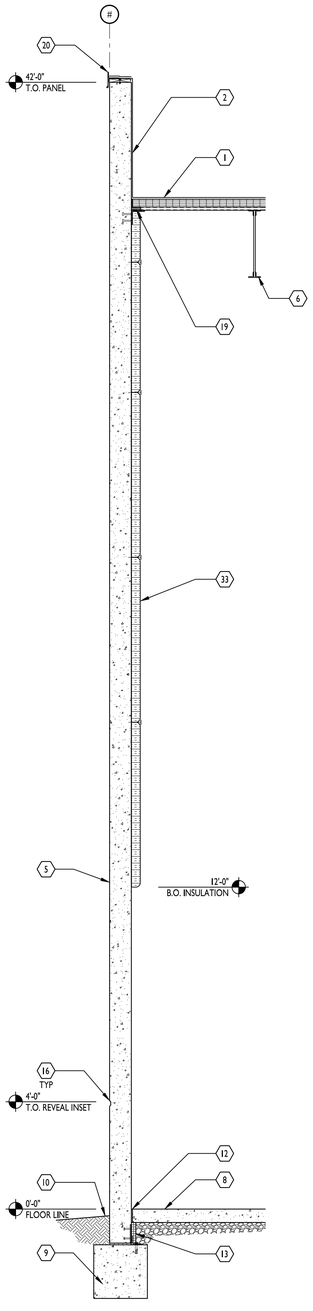

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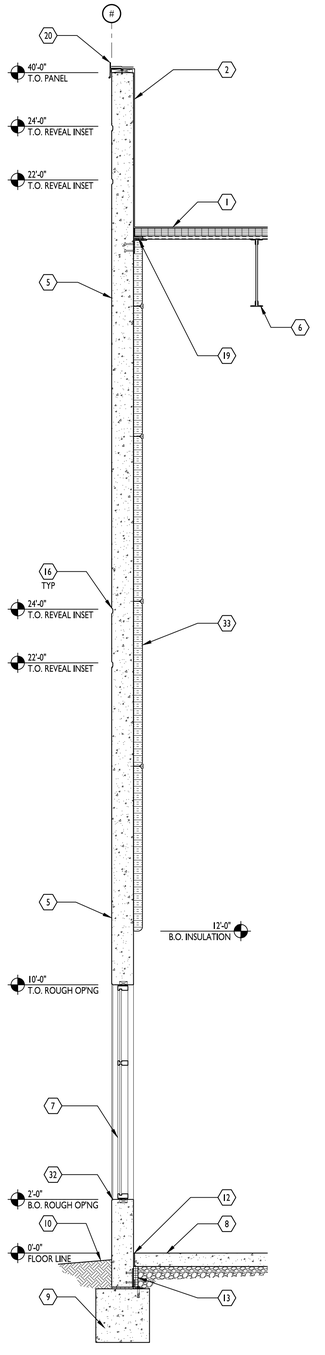

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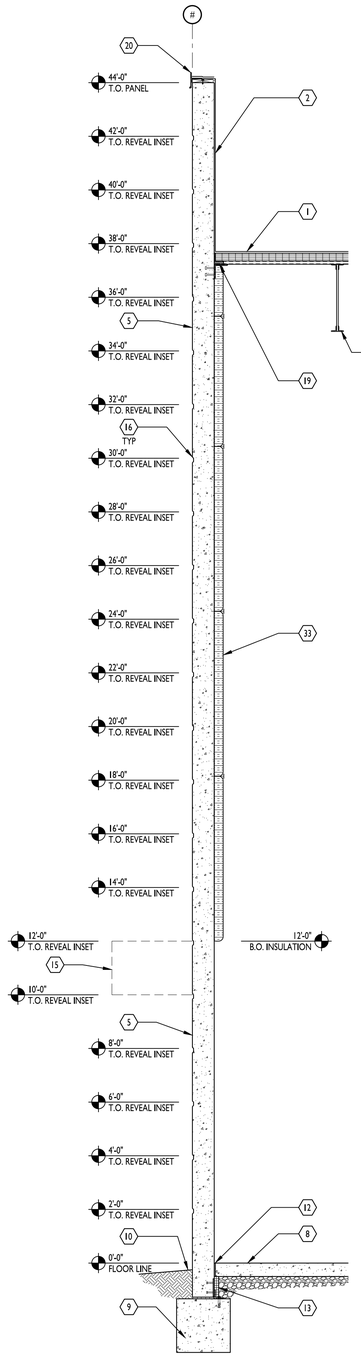

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32. FLASHING TO EXTEND OVER EDGE OF CONCRETE. PROVIDE HEMMED EDGE.
33. STICK PIN INSULATION W/ MINIMUM R-13 VALUE. USE ADHESIVES & FASTENERS TO SECURE INSULATION.
34. 8" REINFORCED CMU WALL. REFER TO STRUCTURAL DWGS.
35. HONEYWELL GUIDELOC VERTICAL RAIL AND FALL ARRESTER SYSTEM MOUNTED TO CENTER OF RUNGS, OR EQUAL.
36. CONSTRUCT 1 HR RATED WALL ON TOP OF CMU TO ROOF DECK. REFER TO WALL TYPE W4A ON A001.
37. TYPICAL DEFLECTION TRACK. REFER TO A501 FOR DETAIL.

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SCANNELL
PROPERTIES

CERTIFICATION

STATE OF MISSOURI
SHAWN M. CURRAN
NUMBER A-8207
REGISTERED ARCHITECT

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING A LOT 1

NW CORNER OF
NE TUDOR RD & MAIN ST
LEE'S SUMMIT, MO 64086

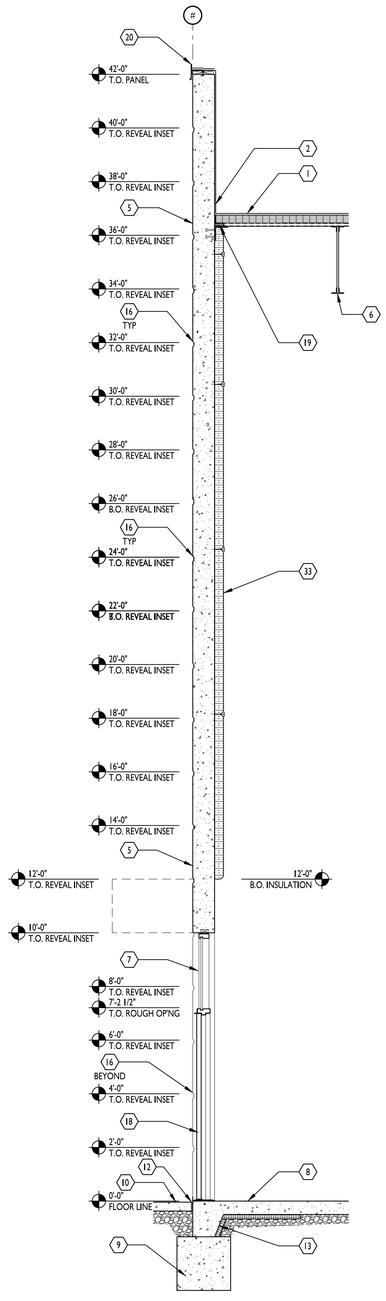
ISSUE DATES

PERMIT SET	02.18.22

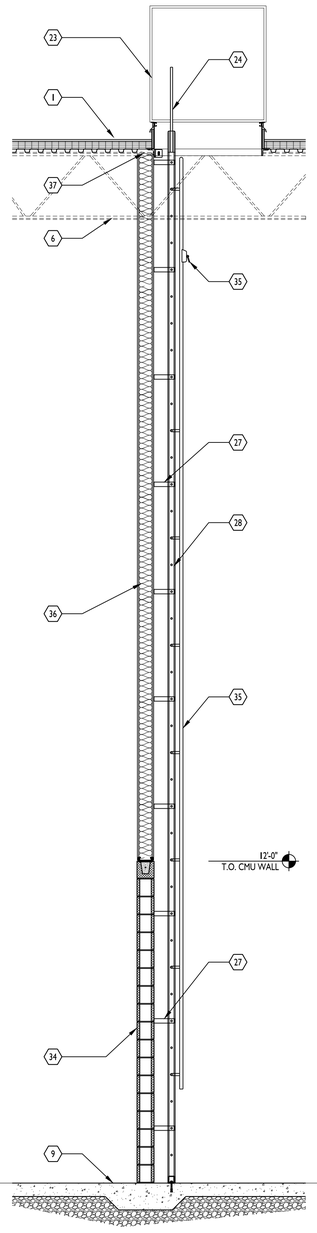
210300

WALL SECTIONS

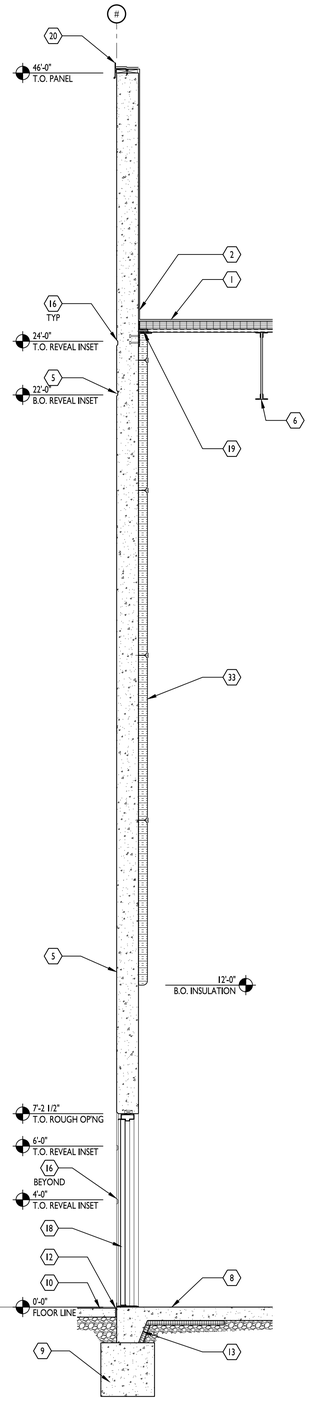
A303



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



SECTION 2
3/8" = 1'-0"



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

KEYED NOTES

1. ROOF MEMBRANE AND INSULATION BOARD. SEE ROOF PLAN FOR INFORMATION. UNDERSIDE OF DECKING FACTORY FINISHED, COLOR WHITE. MINIMUM SLOPE 1/4 INCH PER FOOT. TYPICAL BUILDING ROOFING UNLESS NOTED OTHERWISE.
2. WRAP ROOF MEMBRANE UP BACK SIDE OF TILTWALL PANEL, OVER TREATED 2x BLOCKING ATTACHED TO TILTWALL PANEL. PROVIDE PRE-FINISHED METAL COPING WITH CONTINUOUS HOLD DOWN CLIP. FOR ALL ROOF EDGES UNLESS NOTED OTHERWISE.
3. DOCK SEAL AND DOCK BUMPER
4. PRE-FINISHED INSULATED STEEL OVERHEAD DOOR. REFER TO DOOR SCHEDULE.
5. TYPICAL WALL PANELS: TILTWALL CONCRETE PANELS WITH STEEL FORM PAINT READY EXTERIOR FINISH. REFER TO 1/A301 FOR TYPICAL VERTICAL SPACING OF REVEALS. REFER TO ELEVATIONS FOR SPECIFIC REVEAL LAYOUT PER PANEL.
6. STRUCTURAL STEEL FRAMING. REFER TO ENGINEERING DRAWINGS. COORDINATE STRUCTURAL WITH TILTWALL MANUFACTURER. ORIENTATION OF FRAMING MAY VARY PER SECTION. REFER TO STRUCTURAL DRAWINGS FOR MORE INFORMATION
7. THERMALLY BROKEN ALUMINUM STOREFRONT FRAMING WITH 1" INSULATED TINTED GLASS. REFER TO STOREFRONT ELEVATIONS FOR MORE INFORMATION.
8. CONCRETE SLAB ON GRADE. SEE STRUCTURAL.
9. REINFORCED CONCRETE FOUNDATION. SEE STRUCTURAL.
10. SEE CIVIL FOR EXTERIOR GRADING, SIDEWALKS, ETC...
11. PROVIDE HINGED LOCKING GATE ON LADDER.
12. 1/2" EXPANSION JOINT
13. 2" RIGID INSULATION BOARD, TYPICAL, UNDERSIDE OF SLAB TO TOP OF FOOTING. AT DOORS AND LOCATIONS WHERE DOORS OR STOREFRONT EXTENDS TO FLOOR SLAB, EXTEND THE INSULATION HORIZONTALLY UNDER THE SLAB A MINIMUM OF 4'.
14. DOCK LEVELER PIT. VERIFY DIMENSIONS WITH SUBMITTAL PACKAGE OF LEVELER UNIT. SEE STRUCTURAL FOR REINFORCEMENT INFORMATION.
15. MANUFACTURED PAN AND GUTTER AWNING SYSTEM WITH SCUPPER DIRECTED TO LANDSCAPE BELOW, MAPES LUMIDECK OR EQUAL. FINISH AND SCUPPER LOCATION TO BE SELECTED BY ARCHITECT.
16. REVEALS CAST IN TILTWALL WALL. REFER TO 1/A501. SEE ELEVATIONS FOR LOCATIONS OF REVEALS ON EACH PANEL
17. TYPICAL SEALANT JOINT
18. INSULATED STEEL DOOR AND HOLLOW METAL FRAME. REFER TO FLOOR PLAN FOR NUMBER AND DOOR SCHEDULE FOR SIZE, HARDWARE, AND FINISH.
19. FOAM ENCLOSURE, TYPICAL ENTIRE PERIMETER OF DECK. VERIFY MATERIAL AND DETAILS. COORDINATE WITH DECK MANUFACTURER/SUPPLIER. FOAM BETWEEN BLOCKING AND TOP LAYER OF ROOF INSULATION. EXTEND DOWN TO DECK AND JOIST ANGLES.
20. PRE-FINISHED METAL COPING WITH CONT. HOLD DOWN CLIP. COLOR SELECTED BY ARCHITECT FROM FULL RANGE OF MANUFACTURER'S COLORS
21. INSULATION IS TO EXTEND TO BACK OF DOCK LEVELER PIT, AND EXTEND VERTICALLY UP SIDES AND BACK OF PIT TO COMPLETELY INSULATE PIT PERIMETER.
22. GALVANIZED STEEL DOCK STAIR ASSEMBLY. REFER TO 11 AND 12/A501 FOR INFORMATION
23. 4' X 4' INSULATED ROOF HATCH. COORDINATE PLACEMENT WITH ROOF FRAMING. LADDER TO BE CENTERED BELOW HATCH.
24. "LADDER UP" SUPPORT POST
25. PROVIDE BRACING AS REQUIRED BY LADDER SUPPLIER.
26. OSHA COMPLIANT ROOF ACCESS LADDER CAGE.
27. LADDER BRACKETS. ANCHOR TO SLAB, ROOF FRAMING AND PLATFORM.
28. 18 INCH WIDE STEEL LADDER WITH 1 INCH DIAMETER STEEL RUNGS AT 12 INCHES O.C. SECURE STRINGERS TO FLOOR - TYPICAL BOTH SIDES PER LADDER SUPPLIER REQUIREMENTS.
29. 1 1/2" DIA STEEL 2 LINE GUARD RAIL WITH 4" TALL TOE BOARD AT PLATFORM LEVEL
30. PROVIDE ADD ALTERNATE PRICING TO PROVIDE CONDUIT FOR FUTURE TRAILER RESTRAINT
31. CONCRETE FILLED PIPE BOLLARDS, PAINTED SAFETY YELLOW. REFER TO CIVIL DRAWINGS FOR MORE INFORMATION
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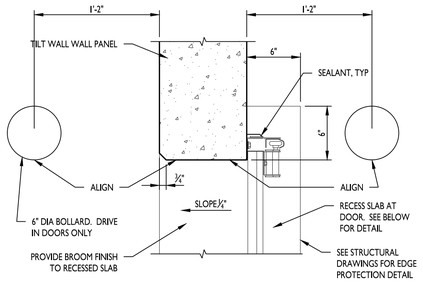
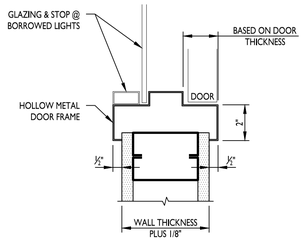
WALL SECTIONS

A304



DRIVE IN DOOR JAMB DETAIL 13

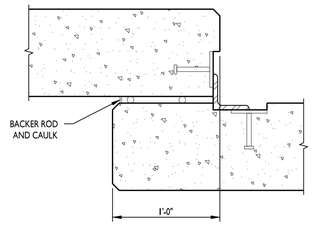
1 1/2" = 1'-0"



REFER TO FLOOR PLANS FOR WALL TYPES (JAMB SHOWN - HEAD SIMILAR)

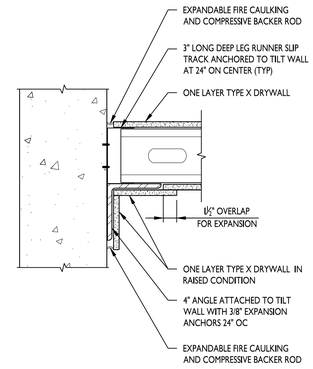
DOOR JAMB SECTION 10

3" = 1'-0"



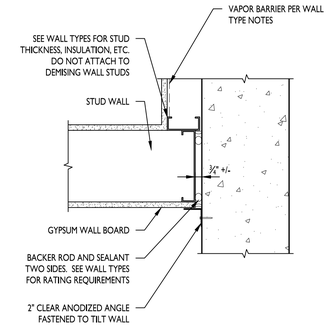
TILT WALL OVERLAP WALL DETAIL 7

1 1/2" = 1'-0"



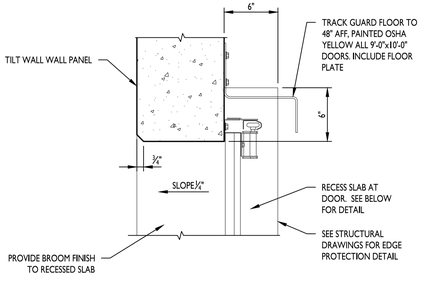
TILT WALL TO WALL SECTION DETAIL DRYWALL "LID" CONDITION 4

1 1/2" = 1'-0"



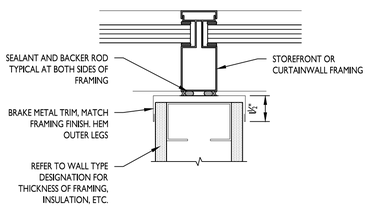
TILT WALL TO WALL PLAN DETAIL 1

1 1/2" = 1'-0"



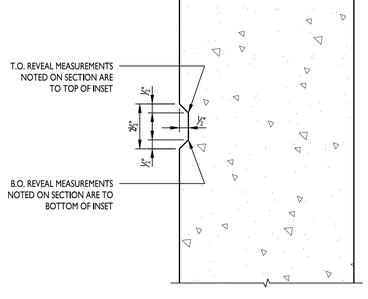
DRIVE IN DOOR JAMB DETAIL 14

1 1/2" = 1'-0"



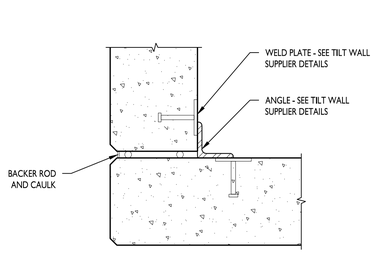
WALL AT MULLION DETAIL 11

3" = 1'-0"



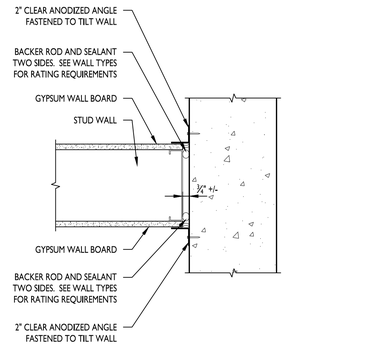
TYPICAL REVEAL DETAIL 8

3" = 1'-0"



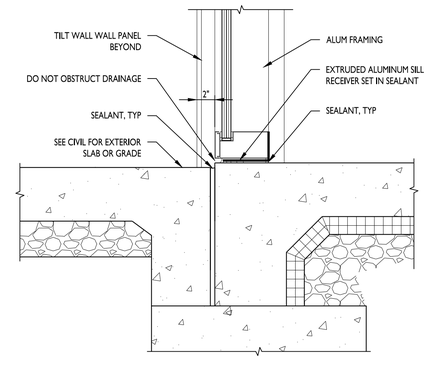
TILT WALL BOX CORNER DETAIL 5

1 1/2" = 1'-0"



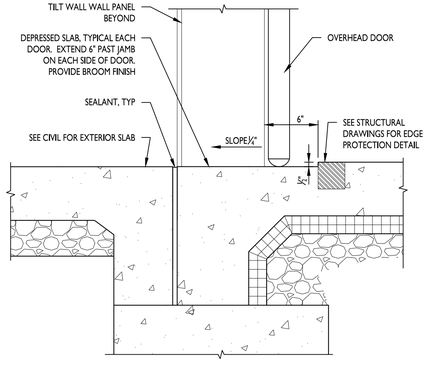
TILT WALL TO WALL PLAN DETAIL 2

1 1/2" = 1'-0"



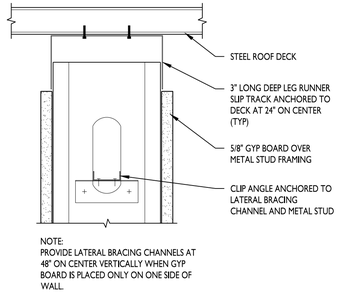
STOREFRONT/CURTAINWALL 15

1 1/2" = 1'-0"



DRIVE IN DOOR DETAIL 12

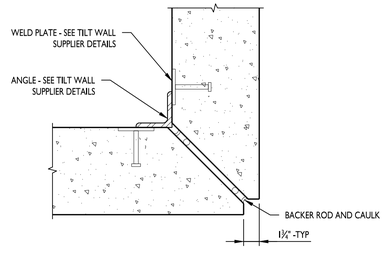
1 1/2" = 1'-0"



NOTE:
PROVIDE LATERAL BRACING CHANNELS AT 48" ON CENTER VERTICALLY WHEN GYP BOARD IS PLACED ONLY ON ONE SIDE OF WALL

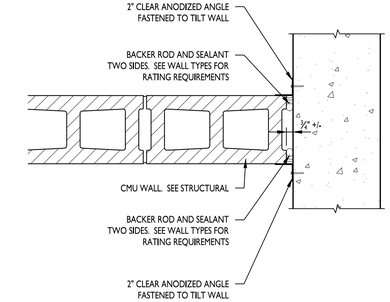
DEFLECTION TRACK DETAIL 9

3" = 1'-0"



TILT WALL MITER CORNER DETAIL 6

1 1/2" = 1'-0"



TILT WALL TO WALL PLAN DETAIL 3

1 1/2" = 1'-0"

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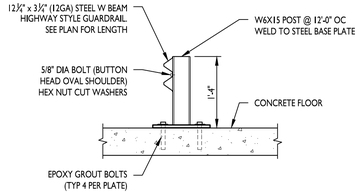
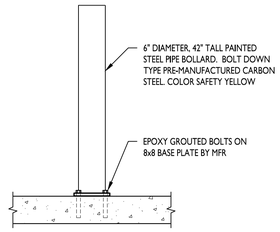
TYPICAL TILT WALL BUILDING DETAILS

A501

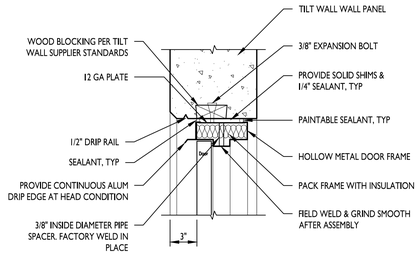
NOT USED 10
3/4" = 1'-0"



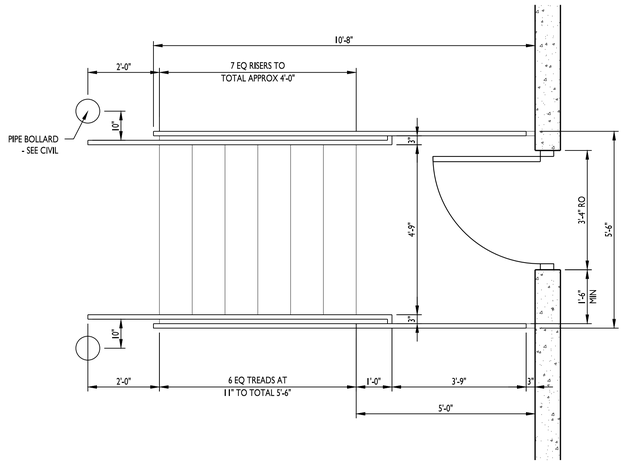
BOLT-DOWN GUARDRAIL DETAIL 7
3/4" = 1'-0"



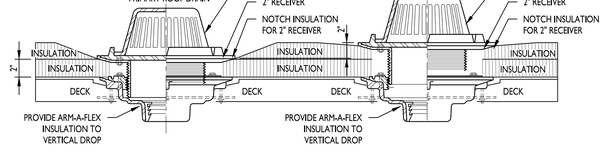
BOLT-DOWN BOLLARD DETAIL 4
3/4" = 1'-0"



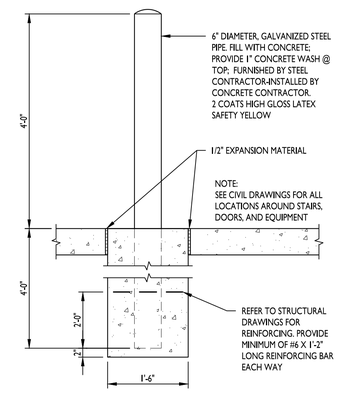
HM DOOR HEAD (JAMB SIM) 1
1 1/2" = 1'-0"



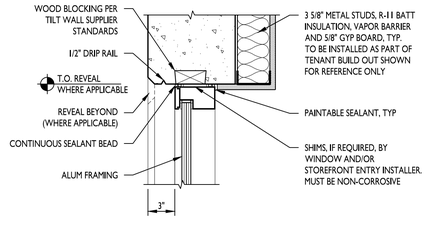
DOCK STAIR PLAN 11
1/2" = 1'-0"



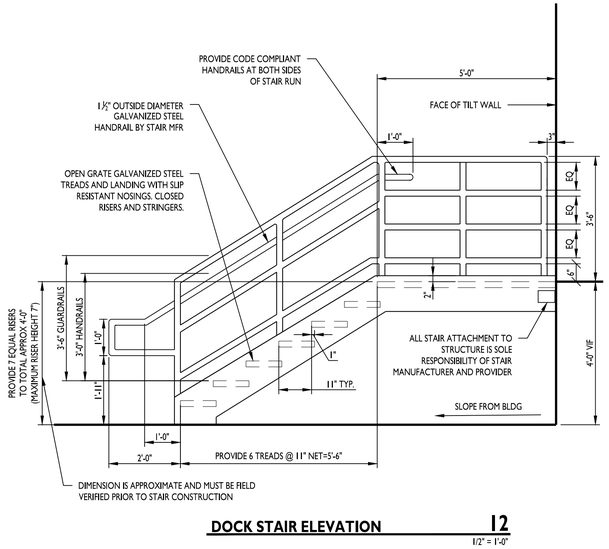
ROOF DRAIN DETAIL 8
1 1/2" = 1'-0"



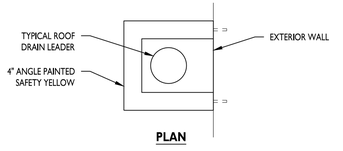
EXTERIOR BOLLARD DETAIL 5
3/4" = 1'-0"



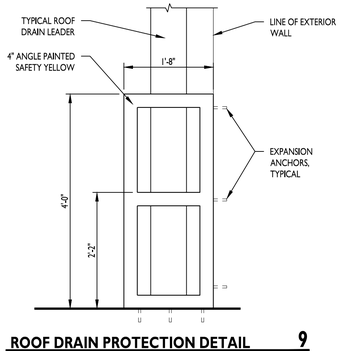
STOREFRONT HEAD (JAMB SIM) 2
1 1/2" = 1'-0"



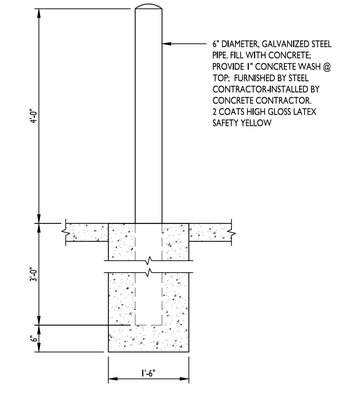
DOCK STAIR ELEVATION 12
1/2" = 1'-0"



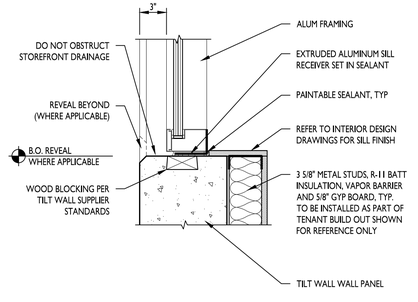
PLAN



ROOF DRAIN PROTECTION DETAIL 9
3/4" = 1'-0"



INTERIOR BOLLARD DETAIL 6
3/4" = 1'-0"



STOREFRONT SILL 3
1 1/2" = 1'-0"

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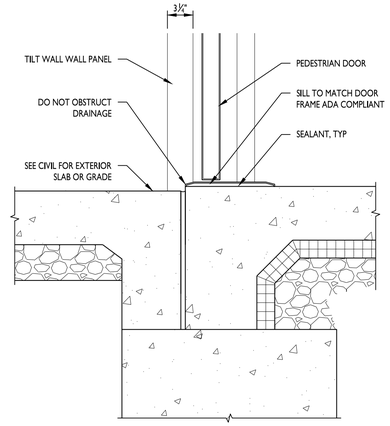
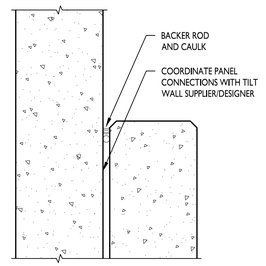
TYPICAL TILT WALL BUILDING DETAILS

A502



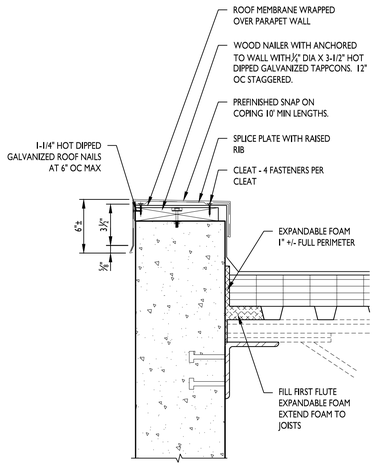
DOOR THRESHOLD 4

1 1/2" = 1'-0"



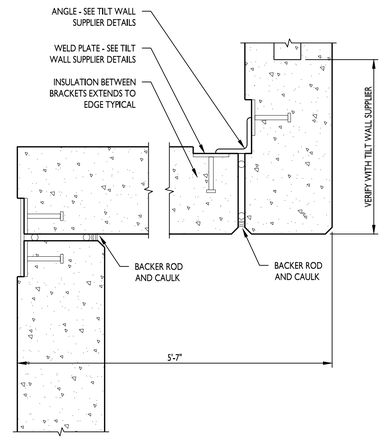
TILT WALL PLAN DETAIL 1

1 1/2" = 1'-0"



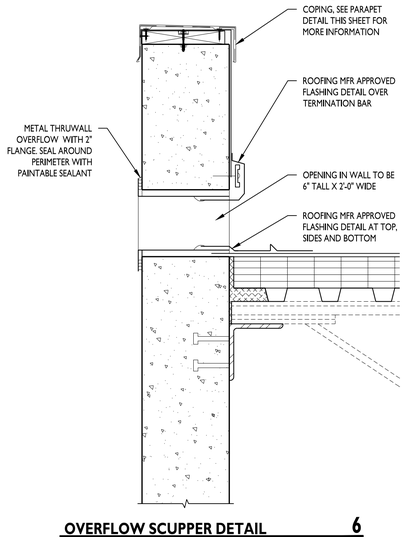
TYPICAL PARAPET DETAIL 5

1 1/2" = 1'-0"



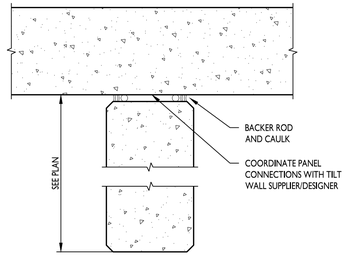
TILT WALL PLAN DETAIL 2

1 1/2" = 1'-0"



OVERFLOW SCUPPER DETAIL 6

1 1/2" = 1'-0"



TILT WALL PLAN DETAIL 3

1 1/2" = 1'-0"

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SHAWN M. CURRAN
NUMBER A-8207
REGISTERED ARCHITECT

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING A LOT 1

NW CORNER OF
NE TUDOR RD & MAIN ST
LEE'S SUMMIT, MO 64086

ISSUE DATES

PERMIT SET	02.18.22

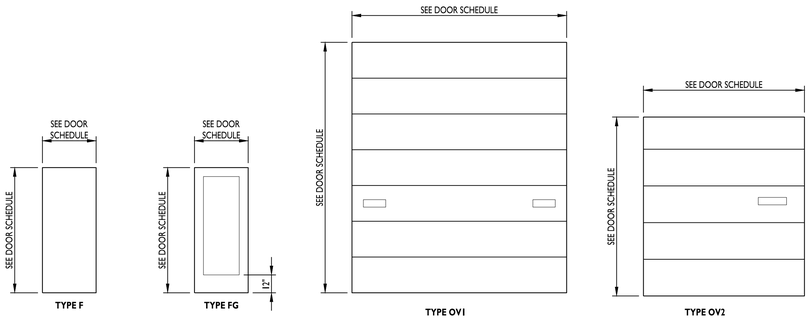
210300

TYPICAL TILT WALL BUILDING DETAILS

A503

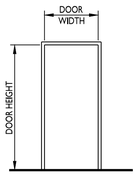
DOOR SCHEDULE CONTINUED

MARK	DOOR	SIZE	MATERIAL	GLAZING	FINISH	RATING	FRAME	MATERIAL	FINISH	RATING	HARDWARE	REMARKS
115	F	3-0 x 7-0	INSUL STL	-	PAINT	-	F1	HM	PAINT	-		
115A	OV2	9-0 x 10-0	INSUL STL	B	PREFINISHED	-	BY MFR	BY MFR	BY MFR	-	BY MFR	
115B	OV2	9-0 x 10-0	INSUL STL	B	PREFINISHED	-	BY MFR	BY MFR	BY MFR	-	BY MFR	
115C	OV2	9-0 x 10-0	INSUL STL	B	PREFINISHED	-	BY MFR	BY MFR	BY MFR	-	BY MFR	
115D	OV2	9-0 x 10-0	INSUL STL	B	PREFINISHED	-	BY MFR	BY MFR	BY MFR	-	BY MFR	
115E	OV2	9-0 x 10-0	INSUL STL	B	PREFINISHED	-	BY MFR	BY MFR	BY MFR	-	BY MFR	
115F	OV2	9-0 x 10-0	INSUL STL	B	PREFINISHED	-	BY MFR	BY MFR	BY MFR	-	BY MFR	
116	F	3-0 x 7-0	INSUL STL	-	PAINT	-	F1	HM	PAINT	-	2	
116A	OV2	9-0 x 10-0	INSUL STL	B	PREFINISHED	-	BY MFR	BY MFR	BY MFR	-	BY MFR	
116B	OV2	9-0 x 10-0	INSUL STL	B	PREFINISHED	-	BY MFR	BY MFR	BY MFR	-	BY MFR	
116C	OV1	12-0 x 14-0	INSUL STL	B	PREFINISHED	-	BY MFR	BY MFR	BY MFR	-	BY MFR	
117	F	3-0 x 7-0	INSUL STL	-	PAINT	-	F1	HM	PAINT	-	2	
118	F	3-0 x 7-0	INSUL STL	-	PAINT	-	F1	HM	PAINT	-	2	
119	F	3-0 x 7-0	INSUL STL	-	PAINT	-	F1	HM	PAINT	-	2	
120	F	3-0 x 7-0	INSUL STL	-	PAINT	-	F1	HM	PAINT	-	2	



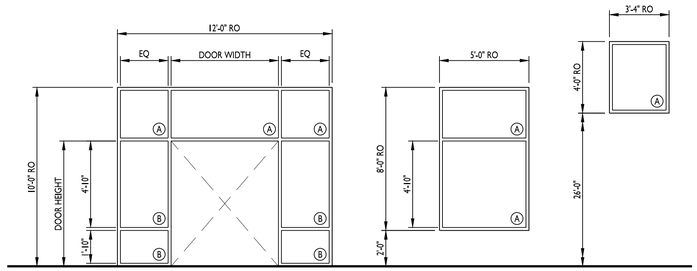
DOOR TYPES

NOT TO SCALE



DOOR FRAME TYPES

NOT TO SCALE



STOREFRONT ELEVATIONS

NOT TO SCALE

DOOR SCHEDULE

MARK	DOOR	SIZE	MATERIAL	GLAZING	FINISH	RATING	FRAME	MATERIAL	FINISH	RATING	HARDWARE	REMARKS
101	FG	(2) 3-0 x 7-0	ALUM	B	CLEAR ANOD	-	SF1	ALUM	CLEAR ANOD	-	1	
102	F	3-0 x 7-0	INSUL STL	-	PAINT	-	F1	HM	PAINT	-	2	
102A	OV1	12-0 x 14-0	INSUL STL	B	PREFINISHED	-	BY MFR	BY MFR	BY MFR	-	BY MFR	
102B	OV2	9-0 x 10-0	INSUL STL	B	PREFINISHED	-	BY MFR	BY MFR	BY MFR	-	BY MFR	
102C	OV2	9-0 x 10-0	INSUL STL	B	PREFINISHED	-	BY MFR	BY MFR	BY MFR	-	BY MFR	
103	F	3-0 x 7-0	INSUL STL	-	PAINT	-	F1	HM	PAINT	-	2	
103A	OV2	9-0 x 10-0	INSUL STL	B	PREFINISHED	-	BY MFR	BY MFR	BY MFR	-	BY MFR	
103B	OV2	9-0 x 10-0	INSUL STL	B	PREFINISHED	-	BY MFR	BY MFR	BY MFR	-	BY MFR	
103C	OV2	9-0 x 10-0	INSUL STL	B	PREFINISHED	-	BY MFR	BY MFR	BY MFR	-	BY MFR	
103D	OV2	9-0 x 10-0	INSUL STL	B	PREFINISHED	-	BY MFR	BY MFR	BY MFR	-	BY MFR	
103E	OV2	9-0 x 10-0	INSUL STL	B	PREFINISHED	-	BY MFR	BY MFR	BY MFR	-	BY MFR	
103F	OV2	9-0 x 10-0	INSUL STL	B	PREFINISHED	-	BY MFR	BY MFR	BY MFR	-	BY MFR	
104	F	3-0 x 7-0	INSUL STL	-	PAINT	-	F1	HM	PAINT	-	2	
104A	OV2	9-0 x 10-0	INSUL STL	B	PREFINISHED	-	BY MFR	BY MFR	BY MFR	-	BY MFR	
104B	OV2	9-0 x 10-0	INSUL STL	B	PREFINISHED	-	BY MFR	BY MFR	BY MFR	-	BY MFR	
104C	OV2	9-0 x 10-0	INSUL STL	B	PREFINISHED	-	BY MFR	BY MFR	BY MFR	-	BY MFR	
104D	OV2	9-0 x 10-0	INSUL STL	B	PREFINISHED	-	BY MFR	BY MFR	BY MFR	-	BY MFR	
104E	OV2	9-0 x 10-0	INSUL STL	B	PREFINISHED	-	BY MFR	BY MFR	BY MFR	-	BY MFR	
104F	OV2	9-0 x 10-0	INSUL STL	B	PREFINISHED	-	BY MFR	BY MFR	BY MFR	-	BY MFR	
105	F	3-0 x 7-0	INSUL STL	-	PAINT	-	F1	HM	PAINT	-	2	
105A	OV2	9-0 x 10-0	INSUL STL	B	PREFINISHED	-	BY MFR	BY MFR	BY MFR	-	BY MFR	
105B	OV2	9-0 x 10-0	INSUL STL	B	PREFINISHED	-	BY MFR	BY MFR	BY MFR	-	BY MFR	
105C	OV2	9-0 x 10-0	INSUL STL	B	PREFINISHED	-	BY MFR	BY MFR	BY MFR	-	BY MFR	
105D	OV2	9-0 x 10-0	INSUL STL	B	PREFINISHED	-	BY MFR	BY MFR	BY MFR	-	BY MFR	
105E	OV2	9-0 x 10-0	INSUL STL	B	PREFINISHED	-	BY MFR	BY MFR	BY MFR	-	BY MFR	
105F	OV2	9-0 x 10-0	INSUL STL	B	PREFINISHED	-	BY MFR	BY MFR	BY MFR	-	BY MFR	
106	F	3-0 x 7-0	INSUL STL	-	PAINT	-	F1	HM	PAINT	-	2	
106A	OV2	9-0 x 10-0	INSUL STL	B	PREFINISHED	-	BY MFR	BY MFR	BY MFR	-	BY MFR	
106B	OV2	9-0 x 10-0	INSUL STL	B	PREFINISHED	-	BY MFR	BY MFR	BY MFR	-	BY MFR	
106C	OV1	12-0 x 14-0	INSUL STL	B	PREFINISHED	-	BY MFR	BY MFR	BY MFR	-	BY MFR	
107	F	3-0 x 7-0	INSUL STL	-	PAINT	-	F1	HM	PAINT	-	2	
107B	F	3-6 x 7-0	INSUL STL	-	PAINT	-	F1	HM	PAINT	-	3	
108	FG	(2) 3-0 x 7-0	ALUM	B	CLEAR ANOD	-	SF1	ALUM	CLEAR ANOD	-	1	
109	F	3-0 x 7-0	INSUL STL	-	PAINT	-	F1	HM	PAINT	-	2	
110	F	3-0 x 7-0	INSUL STL	-	PAINT	-	F1	HM	PAINT	-	2	
111	F	3-0 x 7-0	INSUL STL	-	PAINT	-	F1	HM	PAINT	-	2	
112	F	3-0 x 7-0	INSUL STL	-	PAINT	-	F1	HM	PAINT	-	2	
112A	OV2	9-0 x 10-0	INSUL STL	B	PREFINISHED	-	BY MFR	BY MFR	BY MFR	-	BY MFR	
112B	OV2	9-0 x 10-0	INSUL STL	B	PREFINISHED	-	BY MFR	BY MFR	BY MFR	-	BY MFR	
113	F	3-0 x 7-0	INSUL STL	-	PAINT	-	F1	HM	PAINT	-	2	
113A	OV2	9-0 x 10-0	INSUL STL	B	PREFINISHED	-	BY MFR	BY MFR	BY MFR	-	BY MFR	
113B	OV2	9-0 x 10-0	INSUL STL	B	PREFINISHED	-	BY MFR	BY MFR	BY MFR	-	BY MFR	
113C	OV2	9-0 x 10-0	INSUL STL	B	PREFINISHED	-	BY MFR	BY MFR	BY MFR	-	BY MFR	
113D	OV2	9-0 x 10-0	INSUL STL	B	PREFINISHED	-	BY MFR	BY MFR	BY MFR	-	BY MFR	
113E	OV2	9-0 x 10-0	INSUL STL	B	PREFINISHED	-	BY MFR	BY MFR	BY MFR	-	BY MFR	
113F	OV2	9-0 x 10-0	INSUL STL	B	PREFINISHED	-	BY MFR	BY MFR	BY MFR	-	BY MFR	
114	F	3-0 x 7-0	INSUL STL	-	PAINT	-	F1	HM	PAINT	-	2	
114A	OV2	9-0 x 10-0	INSUL STL	B	PREFINISHED	-	BY MFR	BY MFR	BY MFR	-	BY MFR	
114B	OV2	9-0 x 10-0	INSUL STL	B	PREFINISHED	-	BY MFR	BY MFR	BY MFR	-	BY MFR	
114C	OV2	9-0 x 10-0	INSUL STL	B	PREFINISHED	-	BY MFR	BY MFR	BY MFR	-	BY MFR	
114D	OV2	9-0 x 10-0	INSUL STL	B	PREFINISHED	-	BY MFR	BY MFR	BY MFR	-	BY MFR	
114E	OV2	9-0 x 10-0	INSUL STL	B	PREFINISHED	-	BY MFR	BY MFR	BY MFR	-	BY MFR	
114F	OV2	9-0 x 10-0	INSUL STL	B	PREFINISHED	-	BY MFR	BY MFR	BY MFR	-	BY MFR	

REMARKS:

1. ALUMINUM STOREFRONT FRAMING WITH DOOR. DOOR IS RESPONSIBILITY OF ALUMINUM STOREFRONT FRAMING MANUFACTURER AND MUST BE SIZED TO FIT INTO FRAMING AS DETAILED. PROVIDE WIDE STILE DOOR, WITH MINIMUM 10" BOTTOM RAIL FOR ADA COMPLIANCE.
2. SEE STOREFRONT ELEVATIONS FOR FRAME INFORMATION.
3. PROVIDE INSULATED STEEL DOOR AND FRAME. PAINT TO MATCH ADJACENT MATERIALS. COLOR TO BE SELECTED BY ARCHITECT.
4. PROVIDE AUTOMATIC OPENER. COORDINATE WITH ENGINEERING DRAWINGS FOR POWER.
5. GLAZING IN EXTERIOR DOOR TO BE TEMPERED INSULATED GLASS SIMILAR TO GLAZING TYPE 1b.
6. REFER TO SHEET AXXX FOR TYPICAL HOLLOW METAL HEAD/JAMB DETAIL.
7. REFER TO SHEET AXXX FOR TYPICAL OVERHEAD DOOR JAMB DETAIL.
8. REFER TO AXXX FOR TYPICAL STOREFRONT HEAD/JAMB DETAIL.

GENERAL DOOR AND GLAZING NOTES

A. ALL PRE-FINISHED WOOD DOORS SHALL BE SOLID CORE WITH WOOD VENEER, MARSHFIELD OR EQUIVALENT. PROVIDE FINISH SAMPLE AND DOOR CONSTRUCTION DIAGRAM FOR APPROVAL AND HARDWARE BLOCKING COORDINATION. VENEER TO BE WHITE BIRCH OR MAPLE, FREE OF DARK GRAINS UNLESS OTHERWISE NOTED.

B. WOOD DOORS SHALL ONLY BE INSTALLED IN CONDITIONED SPACE.

C. ALL HARDWARE TO BE MINIMUM 6 PIN BEST COMPATIBLE SYSTEM. COORDINATE KEYING WITH OWNER.

D. TEMPERED AND ANNEALED GLASS TO BE CLEANED PER MANUFACTURER REQUIREMENTS. NYLON CLOTH METHODS PREFERRED. DO NOT USE RAZOR BLADES ON GLASS.

E. GLASS AROUND DOORS AND IN DOORS SHALL BE TEMPERED UNLESS OTHERWISE NOTED IN ELEVATIONS.

F. ANY RATED DOORS TO HAVE LABEL INSTALLED IN JAMB.

G. ALL EXITS DOORS TO HAVE TACTILE EXIT SIGNAGE PER 703.4 OF THE ANSI 117.1 2009.

H. INSTALL OWNER PROVIDED ADA COMPLIANT RESTROOM SIGNAGE, VERIFY WITH ARCHITECT.

I. STOREFRONT TO BE MANKO 2450 CENTER SET, OR EQUAL

GLAZING TYPES

A. SECTION OF GLAZING REQUIRED TO BE 1" INSULATED TINTED GLASS.

B. SECTION OF GLAZING REQUIRED TO BE 1" INSULATED TEMPERED GLASS.

C. SECTION OF GLAZING REQUIRED TO BE 1/4" GLASS.

D. SECTION OF GLAZING REQUIRED TO BE 1/4" TEMPERED GLASS.

E. SECTION OF GLAZING REQUIRED TO BE 1" INSULATED TEMPERED GREY TINTED SPANDREL GLASS.

EXTERIOR GLAZING MUST MEET THE FOLLOWING SPECIFICATIONS FOR ENERGY CODE COMPLIANCE:

LOW "E" COATING
"U" VALUE - MINIMUM OF 0.28
"SHGC" VALUE - MAXIMUM OF 0.47

DOOR HARDWARE

HARDWARE SET 1

2 CONTINUOUS HINGES
2 PANIC DEVICES
1 PERIMETER SEAL
1 THRESHOLD
2 SWEEPS
2 HD CLOSERS
2 PULLS
FINISH: MATCH STOREFRONT

HARDWARE SET 2

3 BALL BEARING HINGES
1 PANIC DEVICE W/ LEVER
1 PERIMETER SEAL
1 THRESHOLD W/ DRAINAGE SUBSILL
1 SWEEP
1 HD CLOSER
1 DRIP TRIM
FINISH: US26D

HARDWARE SET 3

3 BALL BEARING HINGES
1 STOREROOM LOCKSET
1 PERIMETER SEAL
1 THRESHOLD W/ DRAINAGE SUBSILL
1 SWEEP
1 HD CLOSER
1 DRIP TRIM
FINISH: US26D

CURRAN
ARCHITECTURE
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SCANNELL PROPERTIES

CERTIFICATION

STATE OF MISSOURI
SHAWN M. CURRAN
NUMBER A-8207
REGISTERED ARCHITECT

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING A LOT 1

NW CORNER OF
NE TUDOR RD & MAIN ST
LEE'S SUMMIT, MO 64086

ISSUE DATES

PERMIT SET	02.18.22

210300

DOOR AND FINISH SCHEDULE

A601

DESIGN PARAMETERS

1.	BUILDING CODE	2018 INTERNATIONAL BUILDING CODE (IBC)
	OCCUPANCY CATEGORY	II
2.	LIVE LOADS	
	A. ROOF – NON-REDUCIBLE	20 PSF
	B. SLAB-ON-GRADE	350 PSF
3.	ROOF SNOW LOAD	
	A. GROUND SNOW LOAD, Pg	20 PSF
	B. FLAT ROOF SNOW LOAD, Pf	20 PSF
	C. SNOW EXPOSURE FACTOR, Ce	1.0
	D SNOW LOAD IMPORTANCE FACTOR, I	1.0
	E. THERMAL FACTOR, Ct (BUILDING)	1.0
	F. SNOW DRIFT	PER REFERENCED CODE
4.	WIND DESIGN DATA	
	A. ULTIMATE WIND SPEED (3 SECOND GUST), V	109 MPH
	B. WIND IMPORTANCE FACTOR, I	1.00
	C. WIND EXPOSURE CATEGORY	C
	D. INTERNAL PRESSURE COEFFICIENT, Gcpi	+/- 0.18
	E. DESIGN WIND PRESSURE ON COMPONENTS AND CLADDING (1.0W)	
	1) WALLS (500 SQUARE FEET EFFECTIVE WIND AREA)	
	END ZONES	23.7 PSF
	INTERIOR ZONES	23.7 PSF
	2) ROOF (10 SQUARE FEET EFFECTIVE WIND AREA FOR DECK ATTACHMENT)	
	CORNER ZONES	89.1 PSF
	END ZONES	65.4 PSF
	INTERIOR ZONE 1	49.6 PSF
	INTERIOR ZONE 2	28.5 PSF
	F. WIDTH OF END ZONES, a	18.9 FT
5.	EARTHQUAKE DESIGN DATA	
	A. SEISMIC IMPORTANCE FACTOR, I	1.0
	B. MAPPED SPECTRAL RESPONSE ACCELERATION, Ss	9.9 %
	C. MAPPED SPECTRAL RESPONSE ACCELERATION, S1	6.8 %
	D. SITE CLASS	C
	E. SPECTRAL RESPONSE COEFFICIENT, Sds	0.086
	F. SPECTRAL RESPONSE COEFFICIENT, Sd1	0.068
	G. SEISMIC DESIGN CATEGORY	B
	H. STRUCTURAL SYSTEM (DUAL SYSTEM)	
	1) BASIC SEISMIC FORCE-RESISTING SYSTEM TYPE	H. STEEL SYSTEM
	2) VERTICAL ELEMENT TYPE	1) STEEL SYSTEM NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE
	3) BASIC SEISMIC FORCE-RESISTING SYSTEM TYPE	A. BEARING WALL SYSTEMS
	4) VERTICAL ELEMENT TYPE	2) ORDINARY PRECAST SHEAR WALLS
	5) DESIGN BASE SHEAR, LRFD	0.029 W
	6) SEISMIC RESPONSE COEFFICIENT, Cs	0.029
	7) CONTROLLING RESPONSE MODIFICATION FACTOR, R	3
	J. ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE
6.	DEAD LOAD	
	A. EPDM MEMBRANE	0.3 PSF
	B. RIGID INSULATION	0.7 PSF
	C. ROOF DECK	2.0 PSF
	D. LIGHTS, PLUMBING, & HVAC	3.0 PSF
	E. SPRINKLERS	2.0 PSF
	F. STEEL JOISTS	2.0 PSF
	G. STEEL GIRDERS	2.0 PSF
	H. TOTAL DEAD LOAD ON JOISTS	10.0 PSF
	J. TOTAL DEAD LOAD ON COLUMNS	12.0 PSF

GENERAL NOTES

GENERAL

1. STRUCTURAL ELEMENTS ARE NON-SELF SUPPORTING AND REQUIRE INTERACTION WITH OTHER ELEMENTS FOR STABILITY AND RESISTANCE TO LATERAL FORCES. FRAMING AND WALLS SHALL BE TEMPORARILY BRACED BY THE CONTRACTOR UNTIL PERMANENT BRACING, ROOF DECKS, AND WALLS HAVE BEEN INSTALLED AND CONNECTIONS BETWEEN THESE ELEMENTS HAVE BEEN MADE.
2. THE STRUCTURAL DRAWINGS REPRESENT THE FINISHED STRUCTURE AND DO NOT INDICATE THE METHOD OF CONSTRUCTION, UNLESS NOTED OTHERWISE. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES, AND OPERATION OF CONSTRUCTION AND SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL THERETO.
3. THE SIZE AND LOCATION OF EQUIPMENT PADS AND PENETRATIONS THROUGH THE STRUCTURE FOR MECHANICAL, ELECTRICAL, AND PLUMBING WORK SHALL BE VERIFIED BY THE CONTRACTOR. PENETRATIONS SHALL BE SUBJECT TO APPROVAL BY THE STRUCTURAL ENGINEER. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR OPENING LOCATIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS.
4. USE ONLY DIMENSIONS INDICATED ON THE DRAWINGS. DO NOT SCALE DRAWINGS OR USE ANY DIMENSIONS TAKEN FROM ELECTRONIC DRAWING FILES. CONTRACTOR SHALL COORDINATE IN-PLACE DIMENSIONS BASED ON TOLERANCES OF THE RESPECTIVE TRADES.
5. ASSUME EQUAL SPACING IF NOT INDICATED ON DRAWINGS.
6. THE GENERAL NOTES ARE AN INTEGRAL PART OF THE CONTRACT DOCUMENTS AND SHALL BE USED IN CONJUCTION WITH THE STRUCTURAL DRAWINGS. WHERE REQUIREMENTS INDICATED ON THE STRUCTURAL DRAWINGS DIFFER FROM THE GENERAL NOTES, NOTIFY THE ARCHITECT AND THE STRUCTURAL ENGINEER.
7. THE STRUCTURAL DRAWINGS ARE NOT INTENDED TO BE AN INDEPENDENT SET OF THE CONSTRUCTION DOCUMENTS. SEE ARCHITECTURAL, MEP, CIVIL AND OTHER DRAWINGS FOR INFORMATION RELATED TO THE STRUCTURAL WORK. CONTRACTOR SHALL VERIFY COORDINATION OF THE DESIRED DETAILS PRIOR TO CONSTRUCTION AND NOTIFY THE ARCHITECT AND THE STRUCTURAL ENGINEER IF ADDITIONAL COORDINATION IS REQUIRED.
8. ARCHITECTURAL, MECHANICAL AND ELECTRICAL COMPONENTS AND SYSTEMS SHALL BE DESIGNED AND CONSTRUCTED TO RESIST SEISMIC FORCES AS DETERMINED IN CHAPTER 13 OF ASCE 7.

FOUNDATIONS

1. FOUNDATION DESIGNS, SUBGRADE PREPARATION NOTES, AND STRUCTURAL EARTH MOVING SPECIFICATION ARE BASED ON THE RECOMMENDATIONS PROVIDED IN THE GEOTECHNICAL REPORT, BY: OLSSON, INC. OF 1700 E 123RD ST., OLATHE, KANSAS 64080 (PHONE NO. 913-829-0078) DATED: FEBRUARY 2022.
2. FOOTING DESIGNS ARE BASED ON AN ASSUMED STABLE, NON-EXPANSIVE SOIL WITH AN ALLOWABLE FOUNDATION PRESSURE OF 2500 PSF WITH A MAXIMUM DIFFERENTIAL SETTLEMENT OF 3/4 INCH. CONTRACTOR SHALL HIRE A GEOTECHNICAL ENGINEER TO DETERMINE WHETHER OR NOT SOIL MEETS THIS MINIMUM CRITERIA AND IF IT DOES NOT, SHALL NOTIFY ENGINEER SO THAT THE FOUNDATION MAY BE REDESIGNED ACCORDINGLY.
3. CONTRACTOR AND TESTING LABORATORY REPRESENTATIVE SHALL READ THE GEOTECHNICAL REPORT AND BECOME THOROUGHLY FAMILIAR WITH SITE AND SUBGRADE INFORMATION GIVEN THEREIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EXACT QUANTITIES OF CUT AND FILL FOR ESTIMATING AND CONSTRUCTION. SUBGRADE SHALL BE PREPARED AS NOTED IN THE GEOTECHNICAL REPORT.
4. A QUALIFIED AND REGISTERED GEOTECHNICAL ENGINEER, LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED AND WORKING FOR THE TESTING LABORATORY, SHALL DETERMINE CONFORMANCE OF THE FOUNDATION BEARING STRATA WITH THE FOUNDATION DESIGN CRITERIA ABOVE, AND ALL OTHER CONTRACT DOCUMENTS. TESTING LABORATORY SHALL NOTIFY CONTRACTOR, ARCHITECT AND CONSULTING ENGINEER OF ANY CONDITIONS NOT IN ACCORDANCE WITH FOUNDATION DESIGN CRITERIA OR CONTRACT DOCUMENTS.
5. USE ONLY STRUCTURAL FILL MATERIAL AS NOTED IN THE GEOTECHNICAL REPORT FOR FILL BELOW BUILDING AND FIVE FEET BEYOND THE EDGES OF THE BUILDING.
6. FOUNDATION WALLS SHALL HAVE ADEQUATE TEMPORARY BRACING INSTALLED BY THE CONTRACTOR BEFORE BACKFILL IS PLACED AGAINST THEM. TEMPORARY BRACING SHALL NOT BE REMOVED UNTIL WALL IS PERMANENTLY BRACED.
7. FOOTINGS SHALL BE POURED AGAINST UNDISTURBED SOIL, UNLESS NOTED OTHERWISE.
8. AVOID DAMAGE TO UNDERGROUND UTILITIES SUCH AS WATER MAINS, SANITARY SEWERS, BURIED CABLES, ETC., WHICH MIGHT EXTEND ACROSS OR ADJOIN SITE.

CONCRETE

1. MINIMUM COMPRESSIVE STRENGTH (f'c) AT THE END OF 28 DAYS SHALL BE AS FOLLOWS:

A. FOOTINGS (GRADE BEAMS)	3000 PSI U.N.O. ON PLAN
B. FOUNDATION WALLS	3000 PSI
C. SLABS-ON-GRADE	4000 PSI
D. CONCRETE WALL PANELS (MINIMUM STRENGTH)	4000 PSI

MAXIMUM WATER/CEMENT RATIO = 0.48 TO 0.50 FOR FOOTINGS AND 0.52 FOR SLABS-ON-GRADE AND PRECAST WALLS PANELS

SLUMP LIMITS = 4" + 1"

CONCRETE SHALL BE NORMAL WEIGHT (145 PCF), UNLESS NOTED OTHERWISE.

CEMENTITOUS MATERIALS CONTENT SHALL NOT BE LESS THAN 520 POUNDS PER CUBIC YARD. USE OF ANY FLY ASH IN FLOOR SLAB MIXES SHALL BE NO MORE THAN 20%.

2. AIR-ENTRAINED IS NOT REQUIRED FOR STRUCTURAL CONCRETE.
3. AGGREGATES SHALL COMPLY WITH ASTM C 33 AND SHALL BE FREE OF DELETERIOUS MATTER AND SHALL BE MADE OF COARSE LIMESTONE OR GRANITE AGGREGATES.
4. MATERIALS OR ADMIXTURES SHALL NOT CONTAIN ANY CALCIUM CHLORIDE. IF ADMIXTURES ARE UTILIZED, THEY SHALL BE COMPATIBLE WITH OTHER ADMIXTURES AND MUST NOT CONTRIBUTE WATER-SOLUBLE CHLORIDE IONS EXCEEDING THOSE PERMITTED IN HARDENED CONCRETE.
5. REINFORCING STEEL SHALL MEET THE FOLLOWING:

A. DEFORMED BARS	ASTM A615, GRADE 60
B. WELDABLE DEFORMED BARS	ASTM A706, GRADE 60
C. WELDED WIRE FABRIC	ASTM A185

6. WHERE DOWELS ARE INDICATED BUT NOT SIZED, PROVIDE DOWELS THAT MATCH SIZE AND LOCATION OF MAIN REINFORCING STEEL AND LAP SPLICE WITH THE MAIN REINFORCING STEEL. REINFORCING BARS SHALL BE SPLICED AS NOTED IN THE REINFORCING LAP SCHEDULE.
7. REFER TO ACI 318 LATEST EDITION FOR CONCRETE COVER, ACI 315 LATEST EDITION FOR DETAILING, FABRICATION, PLACEMENT AND SUPPORT PRACTICES, ACI 347 FOR FORMWORK, ACI 305 FOR HOT WEATHER CONCRETING, ACI 306 FOR COLD WEATHER CONCRETING, AND ACI 301 LATEST EDITION FOR STANDARD PRACTICE FOR MIXING AND PLACING CONCRETE. PROVIDE CONCRETE COVER DIMENSIONS IN SHOP DRAWINGS FOR STRUCTURAL ENGINEER REVIEW.
8. "C.J." INDICATES SAW CUT CONTRACTION JOINT OR DOWELED CONSTRUCTION JOINT IN SLAB-ON-GRADE. SLAB POURS SHALL BE SEPARATED BY A DOWELED CONSTRUCTION JOINT. CONTRACTION/CONSTRUCTION JOINTS SHALL BE LOCATED AS SHOWN ON PLANS OR AS DIRECTED BY THE STRUCTURAL ENGINEER.
9. PROVIDE CORNER BARS THAT MATCH CONTINUOUS REINFORCMENT SIZE AND QUANTITY AT INTERSECTIONS AND CORNERS OF FOUNDATIONS.
10. REINFORCING BAR SUPPORTS SHALL BE BOLSTERS, CHAIRS, SPACERS AND OTHER DEVICES TO HOLD REINFORCING BARS AND WELDED WIRE REINFORCEMENT IN PLACE. MANUFACTURE BAR SUPPORTS FFROM STEEL, PLASTIC OR PRECAST CONCRETE ACCORDING TO CRSI'S "MANUAL OF STANDARD PRACTICE" OF GREATER COMPRESSIVE STRENGTH THAN THE CONCRETE PLACED IN.
11. FORM-FACING PANELS THAT WILL BE EXPOSED TO VIEW SHALL BE CONSTRUCTED TO MINIMIZE THE NUMBER OF JOINTS AND SHALL BE MADE OF PLYWOOD, METAL OR OTHER APPROVED PANEL MATERIAL. PLYWOOD MUST COMPLY WITH DOC PS 1 AND BE CLASS 1 OR BETTER.
12. CHAMFER EXTERIOR CORNERS AND EDGES OF PERMANENTLY EXPOSED CONCRETE.
13. THE CONCRETE SLABS SHOWN ON THE STRUCTURAL DRAWINGS HAVE BEEN DESIGNED FOR THE FINISHED STRUCTURE AND HAVE NOT BEEN DESIGNED FOR MEANS AND METHODS OF CONSTRUCTION, INCLUDING BUT NOT LIMITED TO, FORK LIFTS, MAN LIFTS, AND OTHER VEHICULAR TRAFFIC.
14. A VAPOR RETARDER NOT LESS THAN 10 MILS THICK SHALL BE INSTALLED ONLY AT AREAS NOTATED ON THE CONSTRUCTION DOCUMENTS. THE RETARDER SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATION WITH JOINTS USING THE MANUFACTURER'S RECOMMENDED ADHESIVE OR PRESSURE SENSITIVE JOINT TAPE AND INCLUDING THE MANUFACTURER'S PROPRIETARY PENETRATION FLASHING FOR ALL THROUGH-SLAB PENETRATIONS. LAP VAPOR RETARDER JOINTS 6 INCHES MINIMUM.
15. CONCRETE SLABS-ON-GRADE SHALL BE CONSTRUCTED WITH A HARD TROWEL FINISH AND BE FINISHED ACCORDING TO ASTM E 1155 TO ACHIEVE THE MINIMUM TOLERANCES BELOW:

OVERALL VALUES: FF = 50 FL = 35
LOCAL VALUES: FF = 25 FL = 20

16. THE CONCRETE SLAB-ON-GRADE SHALL BE CURED WITH AN APPROVED CURING MATERIAL THAT HAS BEEN SUBMITTED AND APPROVED BY THE ARCHITECT AND ENGINEER OF RECORD. THE FLOOR SHALL BE CURED WITH ONE COAT OF HARDENER/DENSIFIER (ASHFORD FORMULA SEALER OR APPROVED ALTERNATE).
17. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, OPENINGS, BLOCKOUTS, RECESSES, ELEVATIONS, ANCHOR RODS AND EMBED LOCATIONS PRIOR TO CONCRETE PLACEMENT. THE CONTRACTOR SHALL VERIFY WITH ARCHITECTURAL, STRUCTURAL AND MEP DRAWINGS FOR LOCATIONS OF REQUIRED COORDINATION ITEMS. CONTRACTOR SHALL CONTACT THE ARCHITECT OR ENGINEER IF AN ERROR OR OMISSION OCCURS AFTER CONCRETE PLACEMENT.
18. ANCHOR BOLTS AND EMBED PLATES SHALL BE TIED INTO THE REBAR CAGE AND HELD IN PLACE WITH A RIGID TEMPLATE TO PREVENT MOVEMENT DURING CONCRETE PLACEMENT.
19. NON-SHRINK GROUT SHALL BE PRE-MIXED, NON-SHRINKING WITH A MINIMUM COMPRESSIBE STRENGTH OF 5000 PSI IN 28 DAYS CONFORMING TO USACE SPECIFICATIONS NO. CRD-C621.

CONCRETE WALL PANELS

1. THE STRUCTURAL DRAWINGS REPRESENT THE REQUIRED FINAL IN PLACE LOADINGS FOR THE CONCRETE WALL PANELS. THE PANELS SHALL BE DESIGNED BY THE TILT-UP SUPPLIER FOR THE FINAL IN PLACE LOADINGS ALONG WITH BEING DESIGNED FOR ERECTION STRESSES, TEMPORARY BRACING OR LIFTING OF THE WALL PANELS. WALL PANELS SHALL BE DESIGNED AND DETAILED TO ADHERE TO ALL LOCAL CODES.
2. THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR THE TILT-UP WALL PANELS. SHOP DRAWINGS SHALL INCLUDE CALCULATIONS FOR FINAL IN PLACE LOADINGS, ERECTION, LIFTING AND TEMPORARY BRACING OF THE WALL PANELS ALONG WITH ANY OTHER ADDITIONAL CONSTRUCTION CONSIDERATIONS. SHOP DRAWINGS AND CALCULATIONS FOR THE CONSTRUCTION CONSIDERATIONS SHALL BE DESIGNED, SEALED AND SIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED. DESIGN CALCULATIONS SHALL SHOW STRESSES IN THE PANELS FOR THE LOADS PRESCRIBED IN THE CONSTRUCTION DOCUMENTS ALONG WITH THERMAL DIFFERENTIAL AND ERECTION AND LIFTING FORCES. THE DEFERRED SUBMITTAL DOCUMENTS SHALL BE SUBMITTED TO THE ARCHITECT OR ENGINEER OF RECORD WHO SHALL REVIEW THEM AND FORWARD THEM TO THE BUILDING OFFICIAL AS REQUESTED WITH A NOTATION INDICATING THAT THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED AND BEEN FOUND TO BE IN GENERAL CONFORMANCE TO THE DESIGN OF THE BUILDING. THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THE DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.
3. THE CONTRACTOR SHALL VERIFY THE PROPOSED TILT-UP WALL PANELS ARE CAPABLE OF MEETING THE FINAL IN PLACE AND ERECTION REQUIREMENTS PRIOR TO BIDDING THE WORK. ANY DEVIATIONS FROM THE WALL PANELS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE QUALIFIED IN THE CONTRACTOR'S BID.
4. THE CONTRACTOR SHALL PROVIDE ADEQUATE VERTICAL AND LATERAL SYSTEM COMPONENTS TO SUPPORT THE LOADINGS STIPULATED IN THE CONSTRUCTION DOCUMENTS. THE FOUNDATIONS HAVE BEEN DESIGNED BASED ON THESE LOADING REQUIREMENTS. ANY DEVIATIONS IN THE LOADINGS SHALL BE APPROVED BY THE ENGINEER OF RECORD PRIOR TO PROCEEDING.
5. THE CONCRETE WALL PANELS SHALL CONFORM TO ACI 301, ACI 318, ACI 551, CONCRETE REINFORCING STEEL INSTITUTE (CRSI) "MANUAL OF STANDARD PRACTICE", AND AWS D1.4 STRUCTURAL WELDING CODE FOR REINFORCING STEEL. SEE THE CONCRETE GENERAL NOTES FOR ADDITIONAL CONFORMANCE SPECIFICATIONS.
6. SEE THE CONCRETE GENERAL NOTES AND SPECIFICATIONS FOR MIX DESIGN DATA AND REQUIREMENTS.
7. THE TILT-UP WALL PANEL SHALL ADHERE TO THE MECHANISMS SET FORTH IN THE STRUCTURAL CONSTRUCTION DOCUMENTS. ADDITIONALLY, THE DESIGN SHALL INCLUDE ALL BOLTS, EMBEDMENT PLATES, BLOCKOUTS, FUTURE KNOCKOUT PANEL LOCATIONS, BRACING AND SUPPORTING STRUCTURE.
8. SEE THE STEEL GENERAL NOTES AND SPECIFICATIONS FOR SECTION PROPERTY REQUIREMENTS. ALL STEEL SHAPES, PLATES, ANCHORS, BOLTS, NUTS AND WASHERS SHALL BE HOT DIP GALVANIZED AFTER FABRICATION.
9. CAST-IN-PLACE ANCHORS SHALL BE HEADED STUDS OR DEFORMED BAR ANCHORS. ASTM 615 REINFORCING BARS SHALL NOT BE USED AS ANCHORS.
10. ALL WELDS SHALL BE PERFORMED BY A AWS CERTIFIED WELDER AND IN ACCORDANCE WITH AWS D1.1 "STRUCTURAL WELDING CODE" AND AWS D1.4 "STRUCTURAL WELDING CODE FOR REINFORCING STEEL". ALL WELDS SHALL BE PAINTED WITH ZINC RICH REPAIR PAINT AFTER WELDING.
11. ALL WELDS FOR DEFORMED BAR ANCHORS SHALL USE E90XX ELECTRODES.
12. PROVIDE BEARING PADS AND GROUT MATERIALS AS REQUIRED PER CODE AND INDUSTRY STANDARDS.
13. COORDINATE WITH THE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS ANY ADDITIONAL REQUIREMENTS FOR DIMENSIONS, FINISH, REVEALS AND ANY OTHER REQUIREMENTS OF THE CONCRETE WALL PANELS.
14. CONTRACTOR SHALL ERECT THE CONCRETE WALL PANELS SUCH THAT IT IS SAFE FOR PERSONNEL AND PROPERTY AND PROVIDE BRACING TO PROTECT THE PANELS AGAINST WIND, SEISMIC AND FORCES THAT MAY OCCUR THROUGHOUT THE CONSTRUCTION PROCESS. TEMPORARY BRACING SHALL REMAIN IN PLACE UNTIL ALL PERMANENT BRACING, DECKING, CONNECTIONS AND WALL PANELS HAVE BEEN FULLY INSTALLED.
15. CONCRETE WALL PANELS SHALL BE ERECTED TO ADHERE TO THE TOLERANCES OF THE LATEST AMERICAN CONCRETE INSTITUTE SPECIFICATIONS. ERECTION TOLERANCES SHALL BE COORDINATED WITH THE STEEL SUPPLIER TO PROVIDE PROPER FIT-UP. DEFLECTIONS OF THE STRUCTURAL STEEL SYSTEM MAY OCCUR DURING CONCRETE WALL PANEL ERECTION. THESE DEFLECTIONS MAY REQUIRE ADJUSTMENT AND RESETTING OF CONCRETE WALL PANELS IN ORDER TO MEET THE TOLERANCES. THE CONTRACTOR SHALL BE AWARE OF THIS ITERATION PROCESS IN HIS BID AND IS RESPONSIBLE FOR THE TOLERANCES BEING MET.
16. THE CONCRETE SLABS SHOWN ON THE STRUCTURAL DRAWINGS HAVE BEEN DESIGNED FOR THE FINISHED STRUCTURE AND HAVE NOT BEEN DESIGNED FOR CRANE USE AND CONCRETE WALL PANEL BRACING. THE CONTRACTOR SHALL VERIFY THE SLAB ADEQUACY AND SUBMIT PROPOSED DESIGNED, IF REQUIRED, TO THE STRUCTURAL ENGINEER FOR REVIEW.
17. ALL CONCRETE WALL PANELS COMPONENTS SHALL ADHERE TO THE DETAILING, FABRICATION AND ERECTION REQUIREMENTS OF THE LATEST EDITIONS OF ACI 301 (SPECIFICATIONS FOR CONCRETE), ACI 318 (STRUCTURAL CONCRETE BUILDING CODE), AWS D1.4 (WELDING CODE FOR REINFORCING STEEL), CRSI (MANUAL OF STANDARD PRACTICE), PCI MNL 116 (MANUAL FOR QUALITY CONTROL FOR PLANS AND PRODUCTION OF PRECAST CONCRETE PRODUCTS), PCI MNL 120 (PCI DESIGN HANDBOOK) AND PCI MNL 135 (TOLERANCE MANUAL FOR PRECAST PRESTRESSED CONCRETE CONSTRUCTION).
18. CONCRETE WALL PANELS SHALL PROVIDE EXPANSIONS JOINTS AT THE ROOF EXPANSION JOINT TO ALLOW FOR THERMAL EXPANSION AND CONTRACTION. ADDITIONALLY, THE PRECAST SUPPLIER SHALL ALLOW FOR DIFFERENTIAL MOVEMENT BETWEEN WALL PANELS BY ALLOWING EXPANSION EVERY FIFTH WALL PANEL.
19. CONCRETE WALL PANELS SHALL BE SOLID CORE BELOW FINISH FLOOR ELEVATION.

STRUCTURAL STEEL

1. STRUCTURAL STEEL SHALL MEET THE FOLLOWING MINIMUM YIELD STRESS (Fy), UNLESS NOTED OTHERWISE:

	YIELD	ASTM SPECIFICATION
A. W, WT SHAPES:	50 KSI	A992
B. BARS, PLATES, CHANNELS, ANGLES:	36 KSI	A36
C. SQUARE, RECTANGULAR HSS:	50 KSI	A500, GRADE C
D. ANCHOR RODS:	36 KSI OR 55 KSI	F1554
E. ALL-THREAD RODS:	36 KSI	A36
F. HEADED STUD ANCHORS:	65 KSI TENSILE STRESS	A108, GRADES 1010-1020

2. ALL STRUCTURAL STEEL SHALL ADHERE TO THE DETAILING, FABRICATION AND ERECTION REQUIREMENTS OF THE LATEST EDITIONS OF THE AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS AND THE AISC CODE OF PRACTICE.
3. BOLTS FOR STEEL BEAM AND COLUMN CONNECTIONS SHALL BE 3/4-INCH DIAMETER ASTM A325-N HIGH-STRENGTH BOLTS UNLESS NOTED OTHERWISE. ALL BOLTED CONNECTIONS ARE BEARING TYPE AND SHALL BE SNUG TIGHTENED UNLESS NOTED OTHERWISE. FOR PRETENSIONED OR SLIP-CRITICAL JOINTS, THE METHOD OF INSTALLATION SHALL BE TURN-OF-NUT WITH MATCH MARKING, TWIST-OFF-TYPE TENSION CONTROL BOLT ASSEMBLIES (ASTM F1852), OR DIRECT TENSION INDICATORS (ASTM F959).
4. WELDING SHALL MEET ANSI / AWS D1.1, STRUCTURAL WELDING CODE LATEST REVISION. ELECTRODES SHALL BE E70XX, LOW HYDROGEN. ALL STRUCTURAL STEEL WELDS SHALL BE PERFORMED BY A AWS CERTIFIED WELDER.
5. WELDS NOT SPECIFICALLY SIZED ON THE STRUCTURAL DRAWINGS SHALL BE THE MINIMUM SIZE PER THE LATEST AWS D1.1.
6. PROVIDE DOUBLE NUTS AND DOUBLE WASHERS FOR STEEL COLUMN ANCHOR BOLTS TO ALLOW FOR ADJUSTMENT IN BASE PLATE ELEVATION. PROVIDE 1 1/2 INCH NON-SHRINK GROUT UNDER BASE PLATE AFTER ERECTION. USE 2 1/2 INCHES NON-SHRINK GROUT WHEN COLUMN ANCHOR BOLTS ARE 1 1/4 INCH DIAMETER OR LARGER. NON-SHRINK GROUT SHALL BE NON-METALLIC WITH A MINIMUM COMPRESSIVE STRENGTH OF 5,000 PSI AT 28 DAYS.
7. SHEAR CONNECTORS SHALL BE A CARBON STEEL HEADED STUD TYPE ASTM A108 GRADES 1010 THRU 1020, AWS D1.1, TYPE B WITH ARC SHIELDS.
8. ALL CONNECTIONS ON THE STRUCTURAL DRAWINGS, UNLESS NOTED OTHERWISE, SHALL BE DESIGNED AND DETAILED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED, EMPLOYED OR RETAINED BY THE STEEL FABRICATOR. THE DESIGN AND DETAILING SHALL COMPLY WITH ALL APPLICABLE CODES AND SPECIFICATION SECTIONS.
9. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR INCLUDING THE COSTS FOR ALL MISCELLANEOUS STEEL IN THEIR BID REGARDLESS OF WHETHER THOSE ITEMS ARE INDICATED ON THE STRUCTURAL DRAWINGS. THESE COSTS SHALL INCLUDE BUT ARE NOT LIMITED TO MISCELLANEOUS STEEL ITEMS SHOWN ON ARCHITECTURAL, CIVIL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS SUCH AS SHELF ANGLES, GLAZING SUPPORTS AND LINTELS.
10. LEDGER ANGLES AND LINTELS IN EXTERIOR WALL SYSTEMS SHALL BE HOT DIPPED GALVANIZED PER ASTM A123.
11. ALL STRUCTURAL STEEL SHALL HAVE A COAT OF LIGHT GRAY PAINT TO PROVIDE PROTECTION AND GOOD APPEARANCE.

STEEL JOISTS

1. STEEL JOISTS SHALL BE AS INDICATED ON THE PLANS AND SHALL BE IN ACCORDANCE WITH THE LATEST SPECIFICATIONS OF THE STEEL JOIST INSTITUTE (SJI) AND MEET THE FOLLOWING:
   - A. JOISTS SHALL BE DESIGNED FOR THE UNIFORM LOAD CAPACITY (AS SPECIFIED IN THE SJI STANDARD LOAD TABLES) IN ADDITION TO THE CONCENTRATED LOADS SHOWN ON PLANS AND DETAILS.
   - B. JOISTS THAT SUPPORT CONCENTRATED LOADS SHALL HAVE THEIR CHORDS DESIGNED TO WITHSTAND ALL BENDING STRESSES, OR THE LOADS SHALL OCCUR WITHIN 3 INCHES OF JOIST PANEL POINTS, OR THE JOIST SHALL BE REINFORCED PER THE "JOIST REINFORCING DETAIL" SHOWN HEREIN. CONCENTRATED LOADS SHALL BE CENTERED ON JOISTS AND NOT ATTACHED TO THE EDGE OF CHORD ANGLES.
   - C. JOISTS SHALL RESIST THE NET UPLIFT PRESSURE AS INDICATED ON THE DETAILS 7 & 8/S4.1. THIS PRESSURE SHALL ACT ALONE. AN ALLOWABLE STRESS INCREASE IS NOT PERMITTED.
   - D FOR ALL MEMBERS THAT REQUIRE SPECIFIC ORIENTATION, PROVIDE TAG AT ONE END AND DEFINE LOCATION OF TAGGED END ON ERECTION DRAWINGS.
   - E. JOIST MANUFACTURER SHALL DETERMINE THE SEAT DEPTH AND WIDTH OF BEARING AND COORDINATE THE SAME WITH THE STEEL FABRICATOR. THE FOLLOWING SEAT DEPTHS ARE ASSUMED ON THE DRAWINGS: 2 1/2 INCHES FOR K-SERIES JOISTS, 5 INCHES FOR LH SERIES JOISTS).
   - F. JOISTS SHALL BE FABRICATED TO PROVIDE OPENINGS FOR DUCTS AS SHOWN IN THE REQUIRED OPENING IN JOIST DETAIL.
2. K-SERIES AMD LH-SERIES JOISTS SHALL BE WELDED TO SUPPORTING STEEL WITH MINIMUM 1/8 INCH FILLET WELDS 2 INCHES LONG EACH SIDE OR WITH TWO 1/2 INCH DIAMETER ASTM A307 BOLTS OR THE EQUIVALENT, UNLESS NOTED OTHERWISE. WHEN NEAR OR AT A COLUMN, BOLT JOIST TO SUPPORTING STEEL IN CONFORMANCE WITH OSHA.
3. JOIST BRIDGING AND ERECTION STABILITY SHALL BE PROVIDED IN ACCORDANCE WITH THE OCCUPATIONAL SAFETY AND HAZARD ADMINISTRATION (OSHA) AND THE SPECIFICATIONS OF THE STEEL JOIST INSTITUTE (SJI).
4. JOIST RTU LOADS ARE PROVIDED ON THE ROOF FRAMING PLAN, REFERENCE PLANS AND DETAILS FOR LOAD LOCATIONS, VALUES AND SUPPORT FRAMING.
5. JOIST MANUFACTURER SHALL DESIGN THE COMPRESSION CHORD OF ALL JOISTS SUPPORTING ROOF TOP UNITS, SKY LIGHTS, AND OTHER STRUCTURES FOR AN UNBRACED LENGTH APPLICABLE TO THE CONDITIONS AT THE PROJECT WHERE THE UNBRACED LENGTH IS GREATER THAN THE SJI MAXIMUM. (REFERENCE ARCHITECTURAL AND MECHANICAL DRAWINGS)
6. DESIGN JOISTS FOR INTERNAL ROOF DRAINLINE AND FIRE SPRINKLER LINE LOCATIONS, IF REQUIRED. ADD 50 PLF FOR 8 INCH DIAMETER AND SMALLER, ADD 75 PLF FOR 10 INCH DIAMETER, ADD 102 PLF FOR 12 INCH DIAMETER, ADD 122 PLF FOR 14 INCH DIAMETER, ADD 200 PLF FOR 18 INCH DIAMETER. REFERENCE MECHANICAL DRAWINGS FOR EXACT LOCATION. CONTRACTOR SHALL OBTAIN FIRE LINE LOCATIONS AND SIZES PRIOR TO SUBMITTAL OF JOIST SHOP DRAWINGS.
7. JOIST DESIGNS SHALL BE PERFORMED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED, EMPLOYED OR RETAINED BY THE JOIST MANUFACTURER.
8. SHOP DRAWING SHALL BE REVIEWED BY THE ARCHITECT AND STUCTURAL ENGINEER OF RECORD PRIOR TO JOIST FABRICATION.
9. PROVIDE JOISTS CAPABLE OF WITH STANDING DESIGN LOADS INDICATED WITH LIVE LOAD DEFLECTIONS NO GREATER THAN L/240 OF THE SPAN.
10. JOISTS SHALL BE CAMBERED ACCORDING TO SJI'S "SPECIFICATIONS". JOIST AND JOIST GIRDERS SHALL BE SHOP PRIMED WITH MANUFACTURER'S STANDARD SHOP PRIMER.

STEEL DECK

1. ROOF DECK
   - A. ROOF DECK SHALL BE GALVANIZED TYPE "B". DEPTH SHALL BE AS SHOWN ON DRAWINGS. ROOF DECK SHALL BE BOTTOM PRIMED WHITE
   - B. ROOF DECK IS REQUIRED TO ACT AS A DIAPHRAGM. CONNECTIONS SHALL BE IN ACCORDANCE WITH STEEL DECK INSTITUTE SPECIFICATIONS. REFER TO THE ROOF DIAPHRAGM CONNECTION DIAGRAM FOR ATTACHMENT.
   - C. DECKING SHALL BE CONTINUOUS OVER A MINIMUM OF (3) SPANS UNLESS NOTED OTHERWISE.
   - D. NO HANGING LOADS SHALL BE ATTACHED TO ROOF DECK.

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CERTIFICATION

STATE OF MISSOURI
JAMES M. GRANICH
NUMBER PE-2014023909
PROFESSIONAL ENGINEER

04/15/2022
Missouri COA #001268

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS
BUILDING A LOT 1

NW CORNER TUDOR RD & MAINST
LEE'S SUMMIT, MO

ISSUE DATES

ISSUE	DATE
ISSUE FOR PERMIT	02.18.2022
ISSUE FOR PERMIT	04.15.2022

210300

S0.0

GENERAL NOTES

POST INSTALLED ANCHORS:

1. ANCHORS SHALL ONLY BE INSTALLED WHERE SPECIFIED ON THE CONTRACT DRAWINGS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE STRUCTURAL ENGINEER PRIOR TO INSTALLING POST INSTALLED ANCHORS IN PLACE OF MISSING OR MIS-PLACED CAST-IN-PLACE ANCHORS. CARE SHALL BE TAKEN IN PLACING POST-INSTALLED ANCHORS TO AVOID CONFLICTS WITH EXISTING REINFORCING.
2. THE CONTRACTOR SHALL SUBMIT PRODUCT DATA WITH DESIGN VALUES AND PHYSICAL PROPERTIES FOR ALL POST INSTALLED ANCHORS. ADDITIONALLY, THE CONTRACTOR SHALL SUBMIT CERTIFIED ICC ES OR ESR REPORTS WHICH VERIFY COMPLIANCE WITH THE SPECIFIED CRITERIA.
3. SUBSTITUTION REQUESTS FOR PRODUCTS OTHER THAN THOSE SPECIFIED ON THE CONTRACT DRAWINGS SHALL BE SUBMITTED BY THE CONTRACTOR TO THE STRUCTURAL ENGINEER ALONG WITH CALCULATIONS THAT ARE SIGNED AND SEALED BY A QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION AND LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED. THE CALCULATIONS SHALL DEMONSTRATE THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERTINENT EQUIVALENT PERFORMANCE VALUES OF THE SPECIFIED PRODUCT USING THE APPROPRIATE DESIGN PROCEDURE AND/OR STANDARDS AS REQUIRED BY THE BUILDING CODE.
4. ALL HOLES SHALL BE DRILLED, DRY AND CLEANED AND ANCHORS SHALL BE INSTALLED IN ACCORDANCE PER ANCHOR MANUFACTURER'S WRITTEN SPECIFICATIONS. THE LATEST VERSION OF THE WRITTEN SPECIFICATION SHALL BE ON-SITE AND FOLLOWED DURING THE INSTALLATION OF THE ANCHORS.
5. THE ANCHOR EMBEDMENT DEPTH SHALL BE DEFINED AS THE DEPTH FROM THE SURFACE FACE OF THE LOAD BEARING BASE MATERIAL TO THE DEEPEST PART OF THE ANCHOR AFTER THE ANCHOR HAS BEEN DRIVEN INTO THE HOLE, BUT NOT YET EXPANDED, IF APPLICABLE.
6. ANCHORS AT ALL WEATHER EXPOSED LOCATIONS SHALL BE STAINLESS STEEL.
7. NON-EPOXY BASED ADHESIVES SHALL BE USED WHEN BASE MATERIAL TEMPERATURE IS BELOW 40 DEGREES FAHRENHEIT.
8. THE FOLLOWING CONCRETE MECHANICAL ANCHORS ARE ALLOWED FOR USE IN CRACKED AND UNCRACKED CONCRETE AND HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 355.2 AND ICC-ES AC193.
   A. SIMPSON STRONG-TIE "STRONG BOLT 2" (ICC-ES ESR-3037)
   B. SIMPSON STRONG-TIE "TITEN HD" (ICC-ES ESR-2713)
   C. HILTI "KWIK BOLT TZ" EXPANSION ANCHOR (ICC-ES ESR 1917)
   D. HILTI "HSL-3" HEAVY DUTY EXPANSION ANCHOR (ICC-ES ESR 1545)
   E. HILTI "HDA" UNDERCUT ANCHOR (ICC-ES ESR 1546)
   F. HILTI "KWIK HUS EZ" EXPANSION ANCHOR (ICC-ES ESR 3027)
9. THE FOLLOWING CONCRETE ADHESIVE ANCHORS ARE ALLOWED FOR USE IN CRACKED AND UNCRACKED CONCRETE AND HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 355.4 AND ICC-ES AC308.
   A. SIMPSON STRONG-TIE "SET-XP" (ICC-ES ESR-2508)
   B. HILTI "HIT-HY200" (ICC-ES ESR-1385)
   C. HILTI "HIT-RE 500 V3" (ICC-ES ESR-3814)

MASONRY

1. CONCRETE MASONRY UNITS SHALL MEET ASTM SPECIFICATION C90, WITH A MINIMUM UNIT COMPRESSIVE STRENGTH = 1900 PSI. THE SPECIFIED DESIGN COMPRESSIVE STRENGTH OF THE CONCRETE MASONRY ASSEMBLY (f'm) SHALL BE 1900 PSI.
2. MORTAR SHALL BE A PREBLENDED DRY MIX CONFORMING TO ASTM C1714 AND MEETING THE PROPERTY SPECIFICATIONS OF ASTM C270 TYPE "S" MORTAR FOR BELOW GRADE. TYPE "N" MORTAR FOR ABOVE GRADE. MASONRY CEMENT SHALL NOT BE USED FOR MORTAR.
3. GROUT SHALL MEET ASTM SPECIFICTION C476 AND HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 2000 PSI.
4. SOLID GROUT HOLLOW MASONRY CELLS AS NOTED ON STRUCTURAL DRAWINGS. USE GROUT METHOD OF CONSTRUCTION CONFORMING TO REQUIREMENTS OF CURRENT MSJC. GROUT SPACE DIMENSIONS AND MAXIMUM POUR HEIGHTS SHALL COMPLY WITH MSJC.
   A. LIMIT THE HEIGHT OF VERTICAL GROUT POURS TO 4'-0" OR THE DISTANCE BETWEEN BOND BEAMS, WHICHEVER IS LESS.
   B. GROUTING SHALL BE A CONTINUOUS PROCEDURE FOR EACH LIFT. DO NOT ALLOW HORIZONTAL CONSTRUCTION JOINT TO FORM BY DISCONTINUING GROUTING.
   C. VERTICAL GROUT POUR EXCEEDING 12 INCHES SHALL BE MECHANICALLY CONSOLIDATED USING A VIBRATOR WITH A MAXIMUM 3/4 INCH DIAMETER HEAD.
5. CONTRACTOR SHALL CLEAN THE GROUT SPACES SUCH THAT THEY ARE FREE OF MORTAR DROPPINGS, DEBRIS, LOOSE AGGREGATES AND ANY MATERIAL THAT WOULD PREVENT CONTINUITY OF THE GROUT.
6. HORIZONTAL JOINT REINFORCEMENT SHALL BE LADDER TYPE. JOINT REINFORCEMENT SHALL BE SPACED AT 8 INCHES ON CENTER BELOW FINISHED FLOOR AND IN PARAPETS, AND 16 INCHES ON CENTER ABOVE FINISHED FLOOR.
7. CONCRETE MASONRY SHALL BE LAID IN RUNNING BOND.
8. CONCRETE MASONRY BELOW FINISHED FLOOR SHALL BE NORMAL WEIGHT UNITS AND SHALL HAVE ALL THE CELLS FULLY GROUTED. CONCRETE MASONRY ABOVE FINISHED FLOOR SHALL BE MEDIUM WEIGHT AND IS TO BE GROUTED ONLY AT REINFORCED CELLS AND BOND BEAMS, UNLESS NOTED OTHERWISE. ALL CELLS WITH REINFORCING OR EMBEDDED ITEMS SHALL BE GROUTED SOLID.
9. REFERENCE WALL SECTIONS AND DETAILS FOR MISCELLANEOUS BOND BEAM LOCATIONS AND EMBEDDED ITEMS. USE OPEN KNOCK OUT BOND BEAM BLOCK. DO NOT USE TROUGH TYPE BLOCKS FOR BOND BEAMS. DO NOT CONTINUE BOND BEAM REINFORCING THROUGH CONTROL JOINTS, UNLESS NOTED OTHERWISE.
10. REINFORCING STEEL SHALL MEET ASTM SPECIFICATION A615, GRADE 60. REINFORCING STEEL SHALL BE SPLICED AS NOTED IN THE REINFORCING LAP SCHEDULE.
11. PROVIDE TEMPORARY BRACING FOR WALLS, LINTELS, AND OTHER MASONRY DURING ERECTION. BRACING SHALL BE DESIGNED IN ACCORDANCE WITH THE MASON CONTRACTORS ASSOCIATION OF AMERICA STANDARD PRACTICE FOR BRACING MASONRY WALLS UNDER CONSTRUCTION. DESIGN SHALL BE PERFORMED BY AN ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED. BRACING SHALL REMAIN UNTIL ROOFING AND OTHER STRUCTURAL ELEMENTS ARE COMPLETE AND PROVIDE PERMANENT STABILITY.

DEFERRED STRUCTURAL SUBMITTALS

1. THE FOLLOWING STRUCTURAL COMPONENTS SHALL BE DESIGNED AND SUBMITTED BY OTHERS FOR APPROVAL IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS.
   A. STRUCTURAL STEEL CONNECTIONS OF FRAMING AND BRACING ELEMENTS
   B. STEEL JOISTS AND JOIST GIRDERS (CONTRACTOR SHALL OBTAIN FIRE LINE LOCATIONS AND SIZES PRIOR TO SUBMITTAL OF JOIST SHOP DRAWINGS.)
   C. STEEL, SELF-SUPPORTING STAIRS AND HANDRAIL FRAMING
   D. STOREFRONT AND CURTAINWALL FRAMING, ACCESSORIES AND ATTACHMENTS TO STRUCTURE
   E. EXCAVATION SUPPORT
   F. TEMPORARY BRACING AND SUPPORT
   G. CONCRETE WALL PANEL REINFORCING
   H. ROOF ACCESS LADDERS AND SAFETY CAGES
   I. SEISMIC ANCHORAGE AND BRACING OF MEP COMPONENTS
2. DOCUMENTS FOR DEFERRED STRUCTURAL SUBMITTAL ITEMS SHALL BE DESIGNED, SEALED AND SIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED. THE DEFERRED SUBMITTAL DOCUMENTS SHALL BE SUBMITTED TO THE ARCHITECT OR ENGINEER OF RECORD WHO SHALL REVIEW THEM AND FORWARD THEM TO THE BUILDING OFFICIAL AS REQUESTED WITH A NOTATION INDICATING THAT THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED AND BEEN FOUND TO BE IN GENERAL CONFORMANCE TO THE DESIGN OF THE BUILDING. THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THE DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.

SHOP DRAWINGS

1. SHOP DRAWINGS AND SUBMITTALS SHALL BE REVIEWED AND APPROVED BY THE CONTRACTOR PRIOR TO SUBMITTAL FOR THE ENGINEER'S REVIEW. THE STRUCTURAL ENGINEER'S REVIEW IS TO CHECK THE GENERAL CONFORMANCE OF THE SHOP DRAWINGS WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR ANY ALTERATIONS FROM THE CONTRACT DOCUMENTS WHICH MAY INCLUDE QUANTITIES, DIMENSIONAL ERRORS OR OTHER ERRORS AND OMISIONS IN THE SHOP DRAWINGS.
2. SHOP DRAWINGS SHALL NOT BE REPRODUCTIONS OF THE CONTRACT DOCUMENTS.
3. THE FOLLOWING STRUCTURAL COMPONENTS SHALL BE SUBMITTED AS A SHOP DRAWING FOR REVIEW:
   A. CONCRETE MIX DESIGN AND MATERIALS
   B. CONCRETE REINFORCING STEEL
   C. CONCRETE FORMWORK
   D STRUCTURAL STEEL
   E. STEEL JOISTS
   F. STEEL ROOF DECK AND THEIR ATTACHMENTS.
   G. ALL DEFERRED SUBMITTAL ITEMS

SPECIAL INSPECTIONS

1. THE OWNER SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PROVIDE INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED IN THE STATEMENT OF SPECIAL INSPECTIONS PER SECTION 1704 OF THE IBC. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION. THESE INSPECTIONS ARE IN ADDITION TO THE INSPECTIONS SPECIFIED IN THE PROJECT SPECIFICATIONS.
2. SPECIAL INSPECTORS SHALL KEEP RECORDS OF INSPECTIONS. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. REPORTS SHALL INDICATE THAT WORK INSPECTED WAS DONE IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THE DISCREPANCIES ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE PRIOR TO COMPLETION OF THAT PHASE OF WORK. A FINAL REPORT DOCUMENTING REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED AT A POINT IN TIME AGREED UPON BY THE PERMIT APPLICANT AND THE BUILDING OFFICIAL PRIOR TO THE START OF WORK.
3. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE SPECIAL INSPECTOR REGARDING INDIVIDUAL INSPECTION FOR ITEMS LISTED ON THE STATEMENT OF SPECIAL INSPECTIONS AND AS NOTED ON THE BUILDING DEPARTMENT APPROVED PLANS. ADEQUATE NOTICE AND ACCESS TO APPROVED PLANS SHALL BE PROVIDED SO THAT THE SPECIAL INSPECTOR HAS TIME TO BECOME FAMILIAR WITH THE PROJECT.
4. FABRICATORS OF STRUCTURAL LOAD-BEARING MEMBERS AND ASSEMBLIES SHALL CONFORM TO THE REQUIREMENTS OF SECTION 1704.2 OF THE IBC.
5. THE FOLLOWING ITEMS REQUIRE SPECIAL INSPECTION PER SECTION 1700 OF THE REFERENCED BUILDING CODE.
   A. BOLTS & ANCHORS EMBEDDED IN CONCRETE
   B. PLACEMENT OF REINFORCING STEEL IN CONCRETE
   C. CONCRETE MIX DESIGN
   D. CONCRETE FORMWORK
   E. STRUCTURAL STEEL FABRICATIONS
   F. STRUCTURAL STEEL BOLTING AND WELDING
   G. ON SITE STRUCTURAL FRAMING
   H. INSPECTION OF ROOF DECK ATTACHMENTS
   I. SHEAR WALL ATTACHMENTS AND ANCHORS
   J. POST INSTALLED ANCHORS
   K. ON SITE SOILS, EXCAVATIONS, FILLING AND COMPACTION
   L. ERECTION OF PRECAST CONCRETE MEMBERS

ABBREVIATIONS

A.B.	ANCHOR BOLTS
ACI	AMERICAN CONCRETE INSTITUTE
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL
A.F.F.	ABOVE FINISHED FLOOR
ARCH.	ARCHITECTURAL
BAL.	BALANCE
B.L.	BLOCK LINTEL
BLDG.	BUILDING
B.O.	BOTTOM OF
B.O.D.	BOTTOM OF DECK
BRG.	BEARING
C.J.	CONTRACTION JOINT
C.L.	CENTER LINE
CLR.	CLEAR
CMU	CONCRETE MASONRY UNIT
COL.	COLUMN
CONC.	CONCRETE
CONST.	CONSTRUCTION
CONT.	CONTINUOUS
D.B.A.	DEFORMED BAR ANCHOR
DIA.	DIAMETER
DWG.	DRAWING
E.F.	EACH FACE
E.J.	EXPANSION JOINT
ELEV.	ELEVATION
E.O.D.	EDGE OF DECK
E.O.S.	EDGE OF SLAB
EQ.	EQUAL
E.W.	EACH WAY
EXIST.	EXISTING
FDN.	FOUNDATION
F.F.E.	FINISHED FLOOR ELEV.
F.S.	FAR SIDE
FTG.	FOOTING
GA.	GAGE
GALV.	GALVANIZED
G.B.	GRADE BEAM
HORIZ.	HORIZONTAL
H.S.A.	HEADED STUD ANCHOR
IBC	INTERNATIONAL BUILDING CODE
INFO.	INFORMATION
J.B.E.	JOIST BEARING ELEVATION
JT.	JOINT
K	UNIT OF 1,000 POUNDS (KIP)
KSI	KIPS PER SQUARE INCH
LBS.	POUNDS
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LONG.	LONGITUDINAL
MAX.	MAXIMUM
MECH.	MECHANICAL
MFR.	MANUFACTURER
MIN.	MINIMUM
MISC.	MISCELLANEOUS
N.I.C.	NOT IN CONTRACT
NO.	NUMBER
N.T.S.	NOT TO SCALE
N.S.	NEAR SIDE
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
O.H.	OPPOSITE HAND
P.A.F.	POWER ACTUATED FASTENER
PCF	POUNDS PER CUBIC FOOT
PLF	POUNDS PER LINEAR FOOT
P.M.E.J.	PREMOLDED EXPANSION JOINT
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
QTY.	QUANTITY
RE:	REFER
REINF.	REINFORCING
REQD.	REQUIRED
R.O.	ROUGH OPENING
RTU	ROOF TOP UNIT
SCHED.	SCHEDULE
S.D.S.	SELF-DRILLING SCREWS
SIM.	SIMILAR
SPECS.	SPECIFICATIONS
STD.	STANDARD
STL.	STEEL
T&B	TOP AND BOTTOM
T.O.	TOP OF
T.O.P.	TOP OF PIER
T.O.W.	TOP OF WALL
TRANS.	TRANSVERSE
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
VERT.	VERTICAL
W.P.	WORK POINT
WT.	WEIGHT
W.W.R.	WELDED WIRE REINFORCEMENT

NOTE: THE CONTRACTOR SHALL PROVIDE A BASE BID PRICING BASED ON THE PANEL THICKNESS SHOWN ON THE DRAWINGS. ADDITIONALLY, THE BASE BID SHALL REFLECT 3.5 LBS PER SQUARE FEET OF REINFORCING STEEL WITH UNIT PRICING OF ANY ADD OR DEDUCT FROM AFOREMENTIONED TONNAGE. ANY VALUE ENGINEERING DEVIATIONS FOR THE WALLS PANELS FOR PANEL THICKNESS SHALL BE QUALIFIED AS A SEPARATE LINE ITEM IN THE CONTRACTOR'S BID.

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CERTIFICATION

STATE OF MISSOURI
JAMES M. GRANICH
NUMBER PE-2014023909
PROFESSIONAL ENGINEER

04/15/2022
Missouri COA #001268

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING A LOT 1

NW CORNER TUDOR RD & MAINST
LEE'S SUMMIT, MO

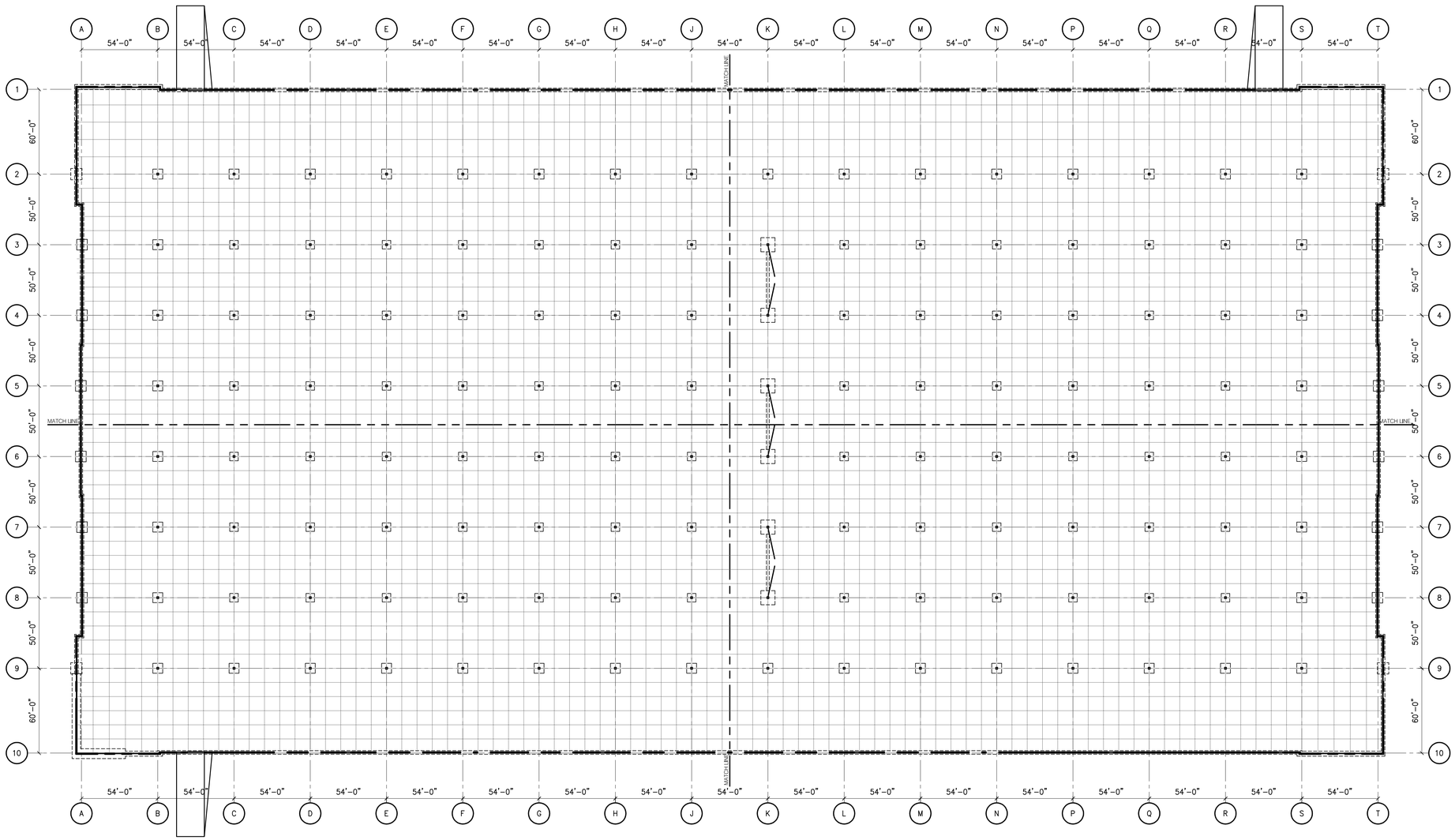
ISSUE DATES

ISSUE	DATE
ISSUE FOR PERMIT	02.18.2022
ISSUE FOR PERMIT	04.15.2022

210300

S0.1

GENERAL NOTES



1 OVERALL FOUNDATION PLAN
SCALE: 1"=40'-0"

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S1.0
OVERALL FOUNDATION PLAN

PLAN NOTES:

1. CONCRETE SLAB-ON-GRADE, U.N.O., SHALL BE A 7" THICK UNREINFORCED SLAB (U.N.O.) OVER 4" ROCK, RE: THE GEOTECHNICAL REPORT. T.O. SLAB ELEV = 100'-0". SLAB TO BE SEALED WITH SINGLE COAT OF ASHFORD (OR EQUAL) FLOOR SEALANT.
2. THE CONCRETE SLABS SHOWN ON THE STRUCTURAL DRAWINGS HAVE BEEN DESIGNED FOR THE FINISHED STRUCTURE AND HAVE NOT BEEN DESIGNED FOR MEANS AND METHODS OF CONSTRUCTION, INCLUDING BUT NOT LIMITED TO, FORK LIFTS, MAN LIFTS, AND OTHER VEHICULAR TRAFFIC. THE CONTRACTOR SHALL VERIFY THE SLAB DESIGN MEETS THE CONSTRUCTION NEEDS AND SHALL SUBMIT TO THE ENGINEER OF RECORD FOR REVIEW.
3. TOP OF FOOTING ELEV. = 99'-0, UNLESS NOTED OTHERWISE.
4. ALL PIPING OR CONDUITS THAT OCCUR THROUGH OR UNDER A GRADE BEAM OR FOOTING SHALL BE APPROVED BY THE ENGINEER OF RECORD PRIOR TO PLACEMENT. (RE: 4 & 5/S3.0)
5. RE: 1/S3.0 FOR REINFORCING LAP SCHEDULE.
6. RE: SHEET S3.0 FOR ADDITIONAL CONCRETE FOUNDATION DETAILS
7. ALL PRECAST PANELS SHALL BE 9 1/4" THICK, U.N.O.

PLAN REFERENCE NOTES:

- Ⓐ DRAIN BLOCKOUT IN FOOTING, RE: 10&11/S3.0
- Ⓑ DOCK PIT, RE: 5/S3.2. RE: ARCH. FOR LOCATIONS.
- Ⓒ DOCK STAIRS RE: 1/S3.1. REFER TO ARCH DWGS FOR LOCATIONS AND TYPE OF STAIR
- Ⓓ FOOTING STEP, RE: 6/S3.0
- Ⓔ RAMP, RE: CIVIL DWGS.

LEGEND

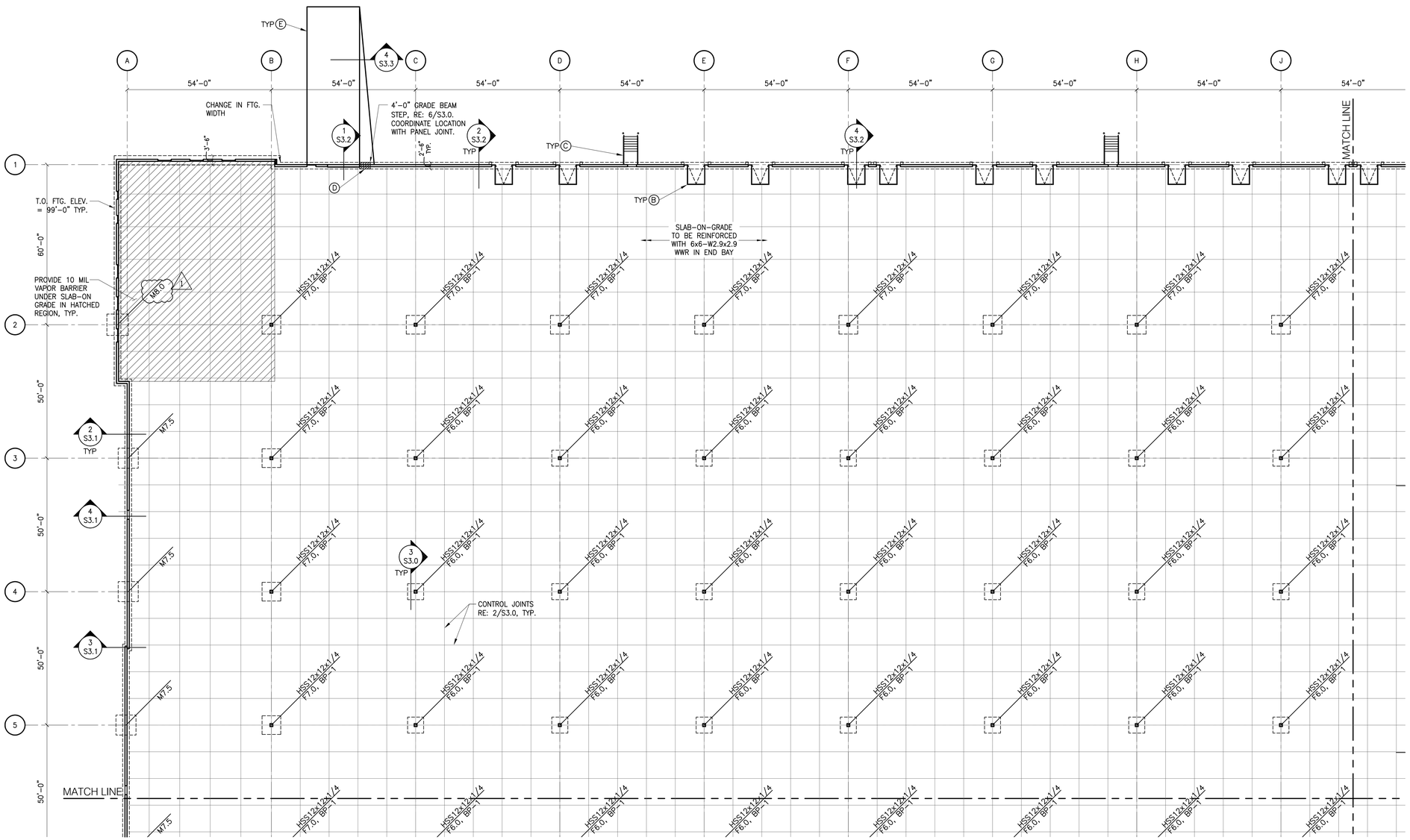
1. F# = FOOTING MARK; RE: FOOTING SCHEDULE
2. C.J. = SAW CUT CONTROL JOINT; RE: DETAIL 2/S3.0
3. B.P. = BASE PLATE; RE: DETAIL 9/S3.0

SPOT FOOTING SCHEDULE

MARK	SIZE	REINFORCEMENT
M7.5	7'-6"x7'-6"x2'-6"	NO REINF. REQUIRED
M8.0	8'-0"x8'-0"x2'-6"	NO REINF. REQUIRED
F6.0	6'-0"x6'-0"x1'-3"	(6)-#6 EA. WAY
F7.0	7'-0"x7'-0"x1'-3"	(7)-#6 EA. WAY
F10.0	10'-0"x10'-0"x3'-0"	(10)-#7 EA. WAY, TOP & BOT.

1

NOTE: PROVIDE f'c=4,000 PSI AT FOOTING TYPE F10.0



1 ENLARGED PARTIAL FOUNDATION PLAN
SCALE: 1"=20'-0"

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ENLARGED PARTIAL FOUNDATION PLAN

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5. RE: 1/S3.0 FOR REINFORCING LAP SCHEDULE.
6. RE: SHEET S3.0 FOR ADDITIONAL CONCRETE FOUNDATION DETAILS
7. ALL PRECAST PANELS SHALL BE 9 1/4" THICK, U.N.O.

PLAN REFERENCE NOTES:

- (A) DRAIN BLOCKOUT IN FOOTING, RE: 10&11/S3.0
- (B) DOCK PIT, RE: 5/S3.2. RE: ARCH. FOR LOCATIONS.
- (C) DOCK STAIRS RE: 1/S3.1. REFER TO ARCH DWGS FOR LOCATIONS AND TYPE OF STAIR
- (D) FOOTING STEP, RE: 6/S3.0
- (E) RAMP, RE: CIVIL DWGS.

LEGEND

1. F# = FOOTING MARK; RE: FOOTING SCHEDULE
2. C.J. = SAW CUT CONTROL JOINT; RE: DETAIL 2/S3.0
3. B.P. = BASE PLATE; RE: DETAIL 9/S3.0

SPOT FOOTING SCHEDULE

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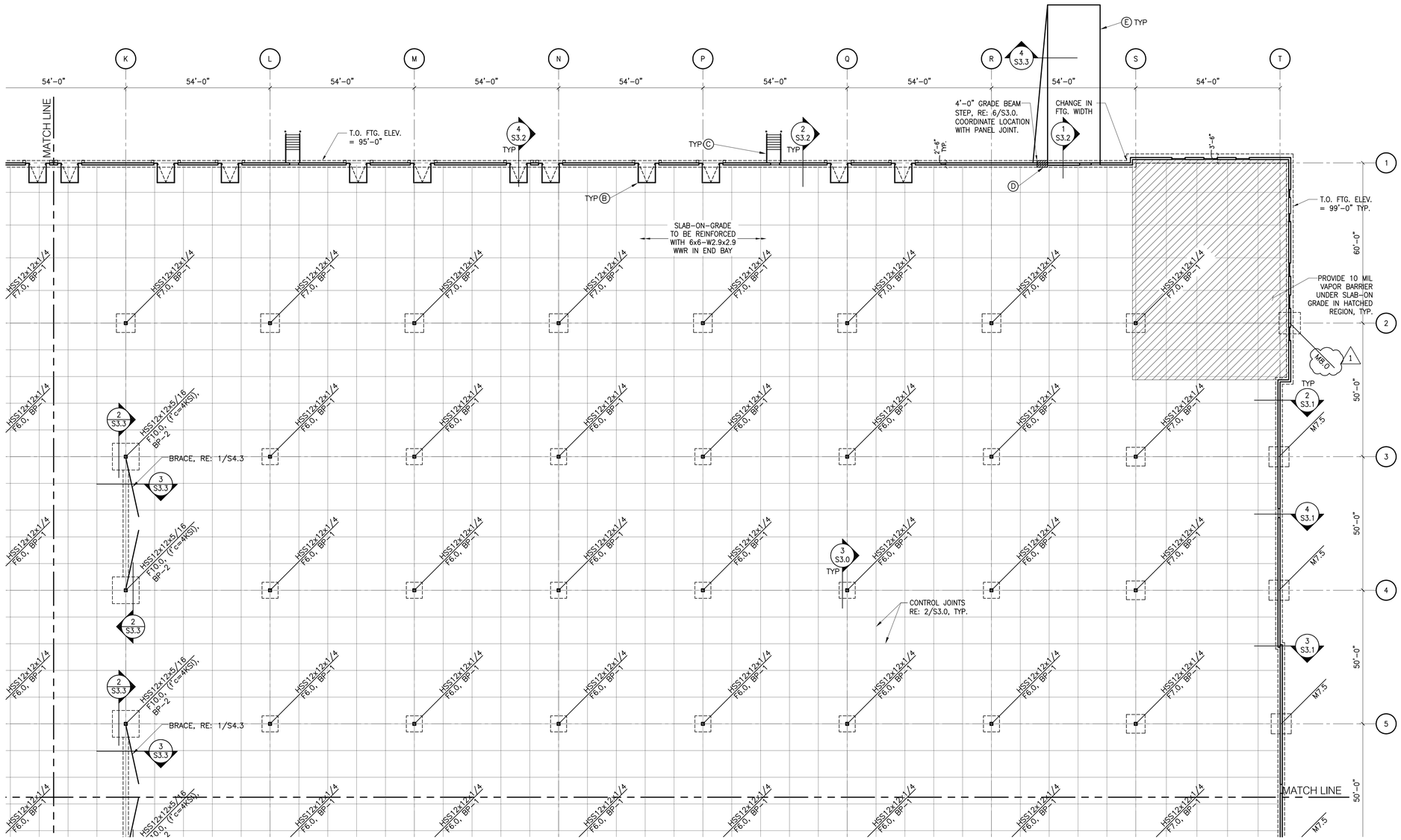

1 ENLARGED PARTIAL FOUNDATION PLAN
SCALE: 1"=20'-0"

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S1.2
ENLARGED PARTIAL FOUNDATION PLAN

PLAN NOTES:

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5. RE: 1/S3.0 FOR REINFORCING LAP SCHEDULE.
6. RE: SHEET S3.0 FOR ADDITIONAL CONCRETE FOUNDATION DETAILS
7. ALL PRECAST PANELS SHALL BE 9 1/4" THICK, U.N.O.

PLAN REFERENCE NOTES:

- Ⓐ DRAIN BLOCKOUT IN FOOTING, RE: 10&11/S3.0
- Ⓑ DOCK PIT, RE: 5/S3.2. RE: ARCH. FOR LOCATIONS.
- Ⓒ DOCK STAIRS RE: 1/S3.1. REFER TO ARCH DWGS FOR LOCATIONS AND TYPE OF STAIR
- Ⓓ FOOTING STEP, RE: 6/S3.0
- Ⓔ RAMP, RE: CIVIL DWGS.

LEGEND

1. F# = FOOTING MARK; RE: FOOTING SCHEDULE
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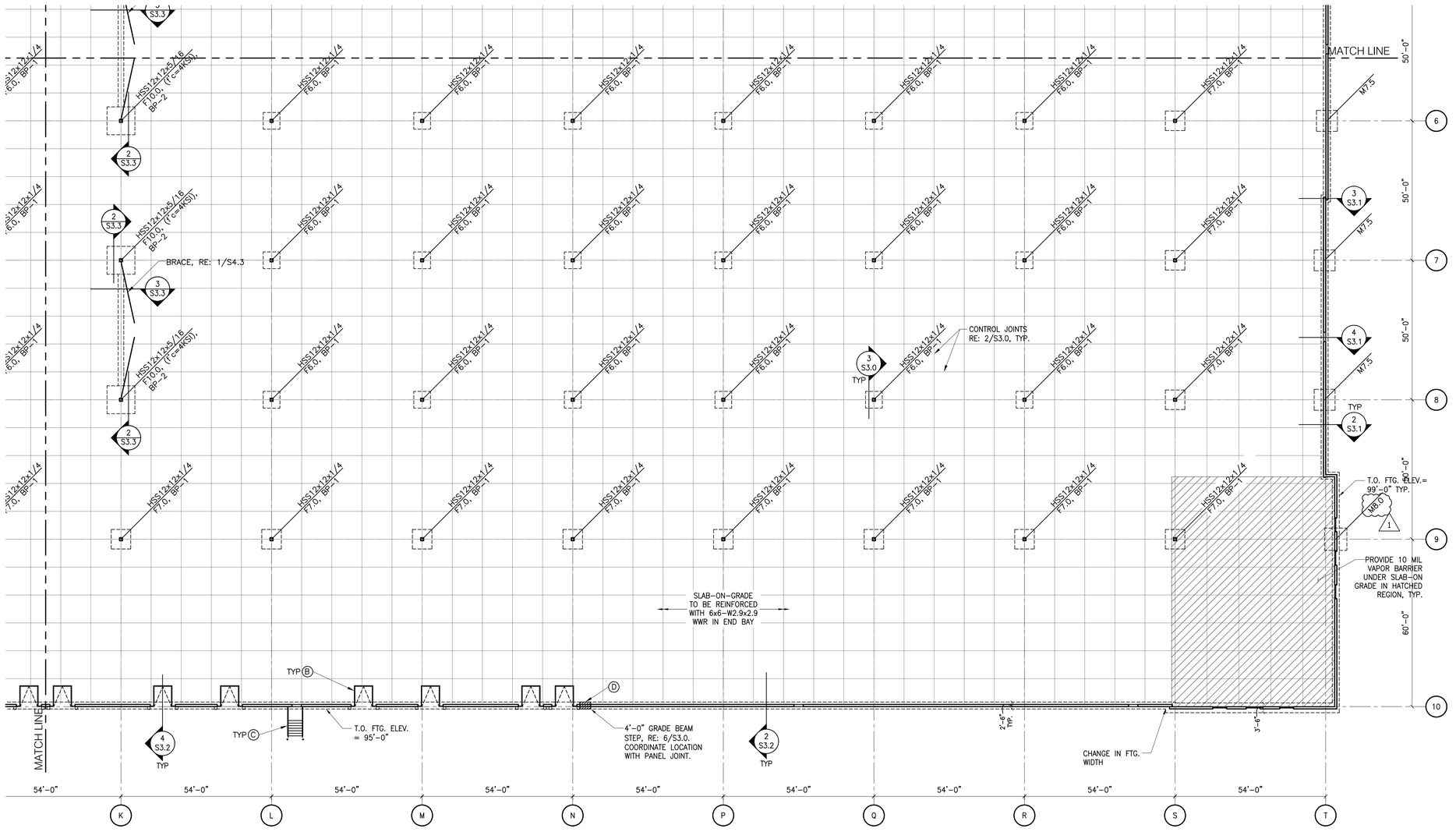

1 ENLARGED PARTIAL FOUNDATION PLAN

SCALE: 1"=20'-0"

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LEE'S SUMMIT, MO

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S1.3
ENLARGED PARTIAL FOUNDATION PLAN

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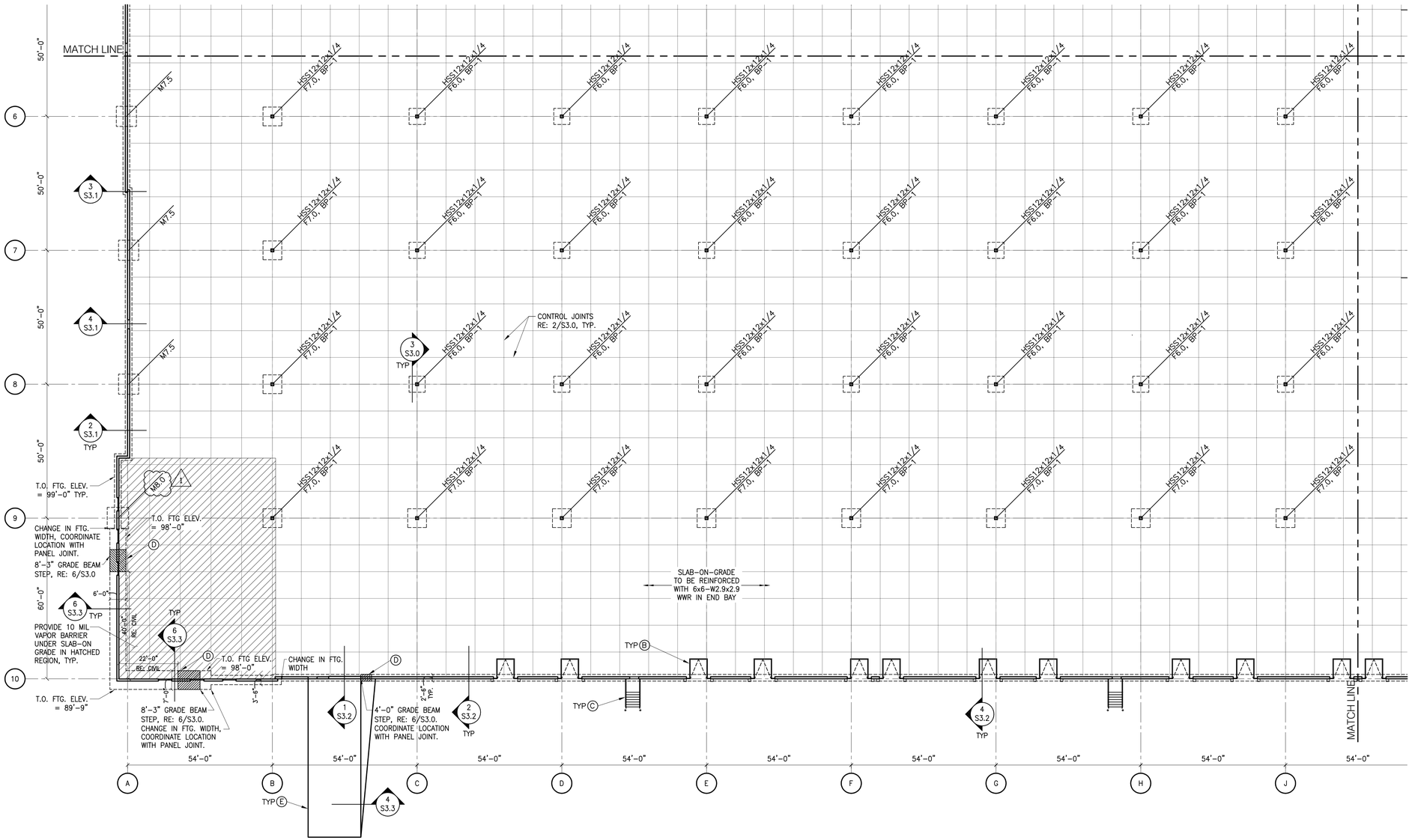

1 ENLARGED PARTIAL FOUNDATION PLAN

SCALE: 1"=20'-0"

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04/15/2022
Missouri COA #001268

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING A LOT 1

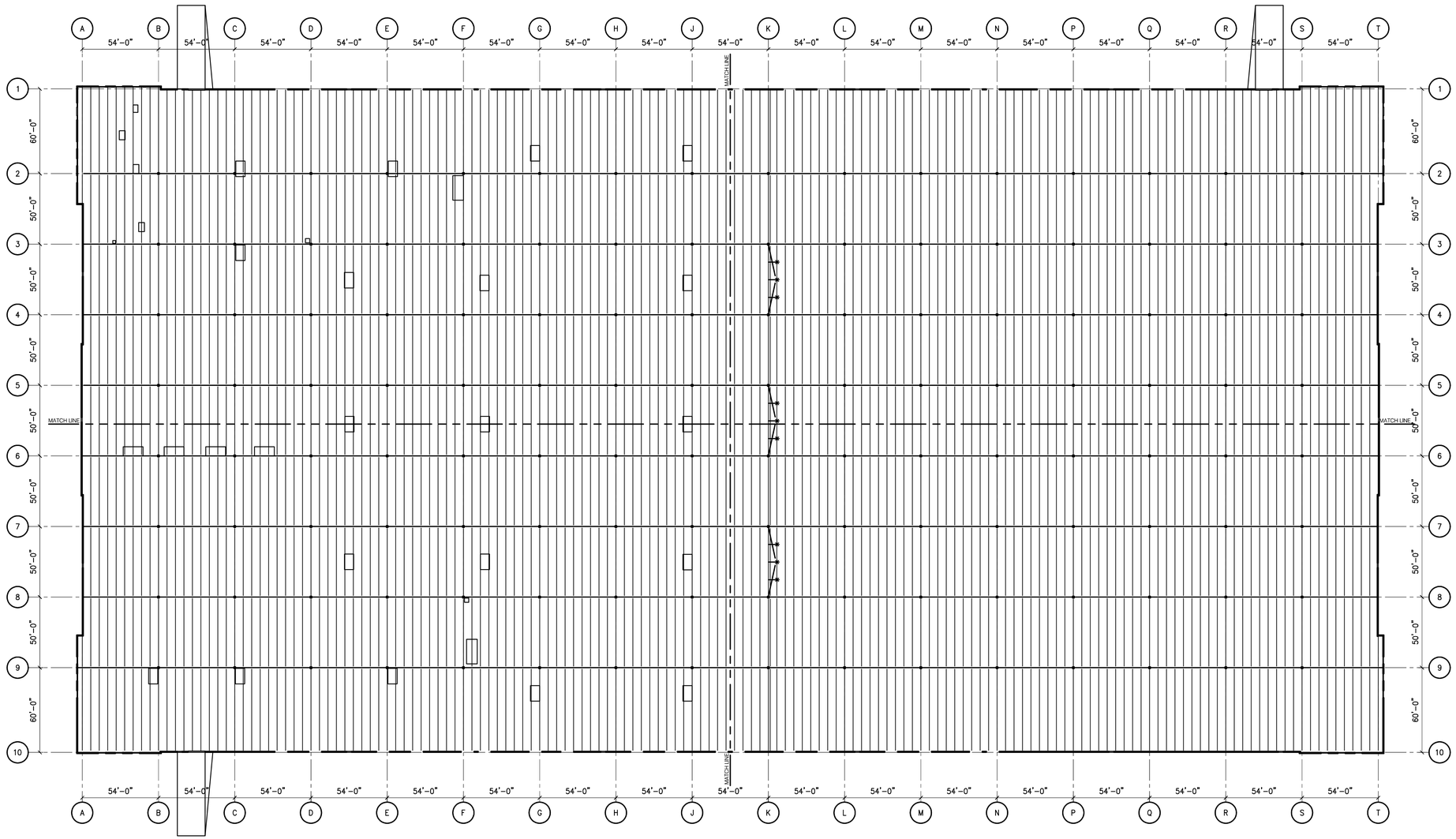
NW CORNER TUDOR RD & MAINST
LEE'S SUMMIT, MO

ISSUE DATES

ISSUE	DATE
ISSUE FOR PERMIT	02.18.2022
ISSUE FOR PERMIT	04.15.2022

210300

S1.4
ENLARGED PARTIAL FOUNDATION PLAN



1 OVERALL FRAMING PLAN
SCALE: 1"=40'-0"

CURRAN
ARCHITECTURE
5719 LAWTON LOOP E. DR. #212
INDIANAPOLIS, IN 46216
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SCANNELL PROPERTIES

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Structural Consultants, Inc.

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Kansas City, Missouri 64108
816.421.8282, Fax 816.421.8338

CERTIFICATION

STATE OF MISSOURI
JAMES M. GRANICH
NUMBER PE-2014023909
PROFESSIONAL ENGINEER

04/15/2022
Missouri COA #001268

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS
BUILDING A LOT 1

NW CORNER TUDOR RD & MAINST
LEE'S SUMMIT, MO

ISSUE DATES

ISSUE	DATE
ISSUE FOR PERMIT	02.18.2022
ISSUE FOR PERMIT	04.15.2022

210300

S2.0
OVERALL FRAMING PLAN

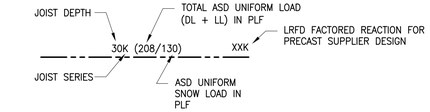
PLAN REFERENCE NOTES:

- Ⓐ ROOF HATCH, RE: ARCH. PROVIDE ANGLE FRAME AT OPENING, RE: 8/S4.0
- Ⓑ JOIST SUPPLIER SHALL DESIGN JOISTS FOR AXIAL LOAD SHOWN.
- Ⓒ DRAG STRUT SPLICE, RE: 9/S4.0.
- Ⓓ ROOF TOP EQUIPMENT, RE: ARCH./MEP. PROVIDE ANGLE FRAME AND CURB RE: 5/S4.0 JOIST SUPPLIER SHALL ACCOUNT FOR LOAD SHOWN ON PLAN IN JOIST DESIGN.
- Ⓔ CAMBER BEAM TO MATCH ADJACENT JOIST.

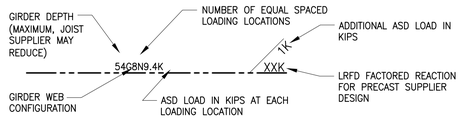
PLAN NOTES

1. ALL EDGE ANGLES SHALL BE CONTINUOUS AND SPLICED PER 6/S4.0.
2. VERIFY ALL WALL OPENING, DIMENSIONS, JOINTS, BLOCKOUTS, REVEALS AND FUTURE KNOCK OUT PANELS WITH ARCHITECTURAL DRAWINGS.
3. NOTE TO JOIST MANUFACTURER: PROVIDE STANDARD BRIDGING COMPLYING WITH THE APPLICABLE STEEL JOIST INSTITUTE SPECIFICATIONS TYPICAL FOR GRAVITY AND UPLIFT LOADS SUPERIMPOSED ON ALL JOISTS. DIAGONAL BRIDGING SHALL BE PROVIDED BETWEEN ADJACENT JOISTS WHENEVER BOTTOM CHORD HORIZONTAL BRIDGING IS DISCONTINUOUS. (RE: 1 & 2/S4.0)
4. ROOF DECK AND ROOF DECK ATTACHMENT SHALL BE PER SHEET S2.5.
5. RE: 3 AND 4/S4.1 FOR ADDITIONAL PRECAST PANEL CONNECTION DETAILS
6. JOIST SHALL BE DESIGNED FOR ROOF TOP EQUIPMENT, RE: ARCH./MEP. PROVIDE ANGLE FRAME AND CURB, RE: 5/S4.0. JOIST SUPPLIER SHALL ACCOUNT FOR LOAD SHOWN ON PLAN IN JOIST DESIGN.
7. JOIST AND JOIST GIRDER DEPTHS SHALL BE LIMITED SO THAT 36'-0" CLEAR HEIGHT TO BOTTOM OF STRUCTURE IS MAINTAINED (1)

JOIST LEGEND



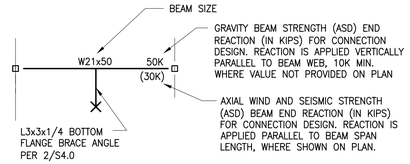
JOIST GIRDER LEGEND

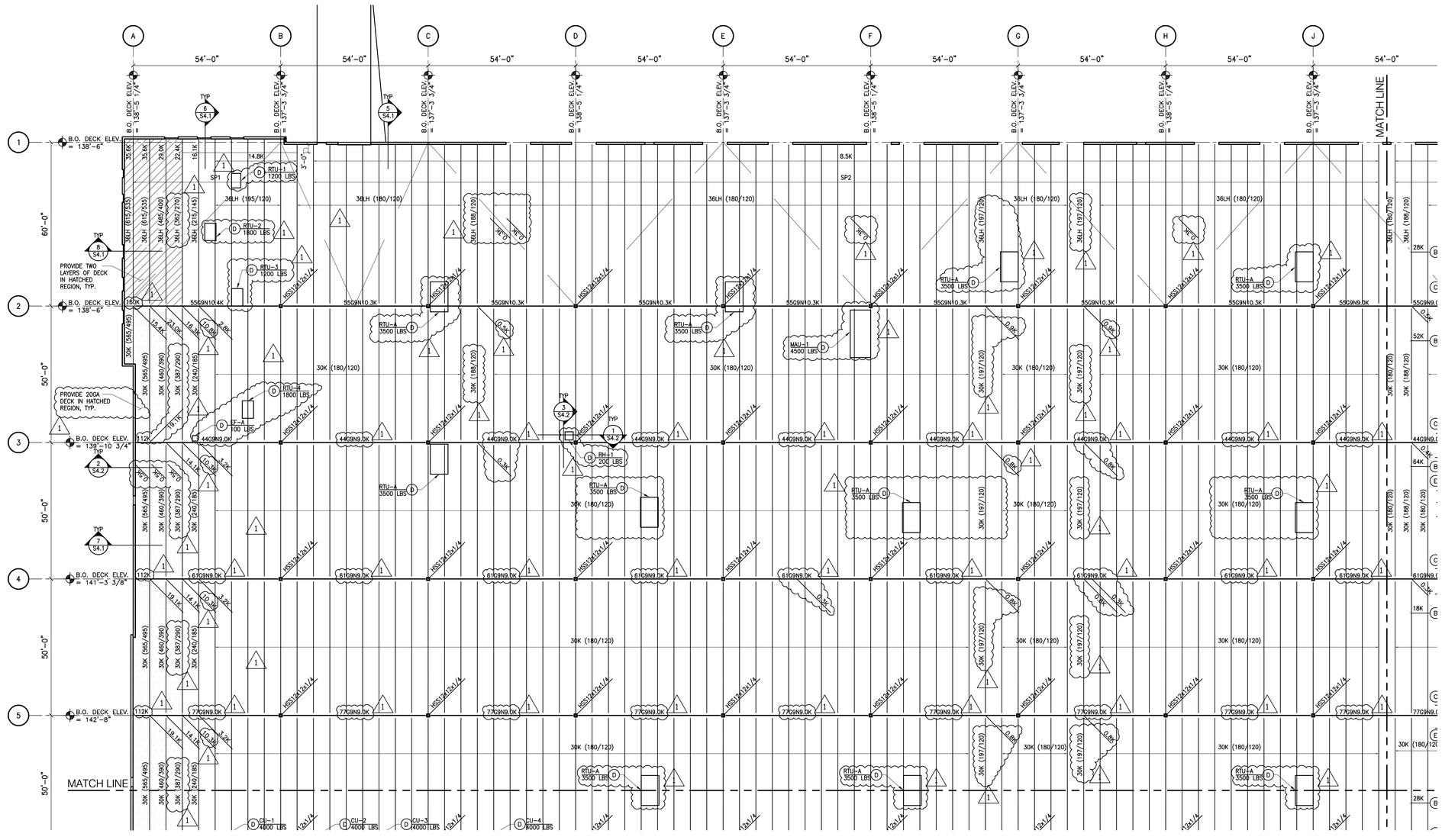


BEAM REACTION LEGEND

STEEL FABRICATOR SHALL DESIGN THE BEAM CONNECTIONS FOR THE STRENGTH LEVEL LOADS (ASD) SHOWN ON THIS PLAN, TYP. (RE: 1/S4.0)

USE MINIMUM TWO BOLT CONNECTION





1 ENLARGED PARTIAL FRAMING PLAN
SCALE: 1"=20'-0"

N

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ARCHITECTURE
5719 LAWTON LOOP E. DR. #212
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04/15/2022
Missouri COA #001268

PROJECT INFORMATION

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NW CORNER TUDOR RD & MAINST
LEE'S SUMMIT, MO

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210300

S2.1
ENLARGED PARTIAL FRAMING PLAN

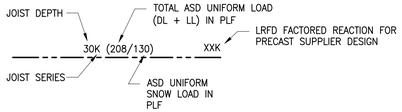
PLAN REFERENCE NOTES:

- Ⓐ ROOF HATCH, RE: ARCH. PROVIDE ANGLE FRAME AT OPENING, RE: 8/S4.0
- Ⓑ JOIST SUPPLIER SHALL DESIGN JOISTS FOR AXIAL LOAD SHOWN.
- Ⓒ DRAG STRUT SPLICE, RE: 9/S4.0.
- Ⓓ ROOF TOP EQUIPMENT, RE: ARCH./MEP. PROVIDE ANGLE FRAME AND CURB RE: 5/S4.0 JOIST SUPPLIER SHALL ACCOUNT FOR LOAD SHOWN ON PLAN IN JOIST DESIGN.
- Ⓔ CAMBER BEAM TO MATCH ADJACENT JOIST.

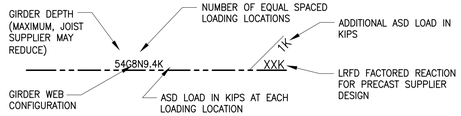
PLAN NOTES

1. ALL EDGE ANGLES SHALL BE CONTINUOUS AND SPLICED PER 6/S4.0.
2. VERIFY ALL WALL OPENING, DIMENSIONS, JOINTS, BLOCKOUTS, REVEALS AND FUTURE KNOCK OUT PANELS WITH ARCHITECTURAL DRAWINGS.
3. NOTE TO JOIST MANUFACTURER: PROVIDE STANDARD BRIDGING COMPLYING WITH THE APPLICABLE STEEL JOIST INSTITUTE SPECIFICATIONS TYPICAL FOR GRAVITY AND UPLIFT LOADS SUPERIMPOSED ON ALL JOISTS. DIAGONAL BRIDGING SHALL BE PROVIDED BETWEEN ADJACENT JOISTS WHENEVER BOTTOM CHORD HORIZONTAL BRIDGING IS DISCONTINUOUS. (RE: 1 & 2/S4.0)
4. ROOF DECK AND ROOF DECK ATTACHMENT SHALL BE PER SHEET S2.5.
5. RE: 3 AND 4/S4.1 FOR ADDITIONAL PRECAST PANEL CONNECTION DETAILS
6. JOIST SHALL BE DESIGNED FOR ROOF TOP EQUIPMENT, RE: ARCH./MEP. PROVIDE ANGLE FRAME AND CURB, RE: 5/S4.0. JOIST SUPPLIER SHALL ACCOUNT FOR LOAD SHOWN ON PLAN IN JOIST DESIGN.
7. JOIST AND JOIST GIRDER DEPTHS SHALL BE LIMITED SO THAT 36'-0" CLEAR HEIGHT TO BOTTOM OF STRUCTURE IS MAINTAINED (1)

JOIST LEGEND



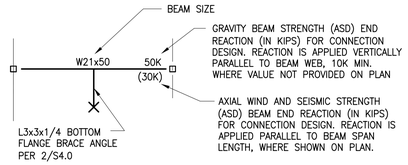
JOIST GIRDER LEGEND

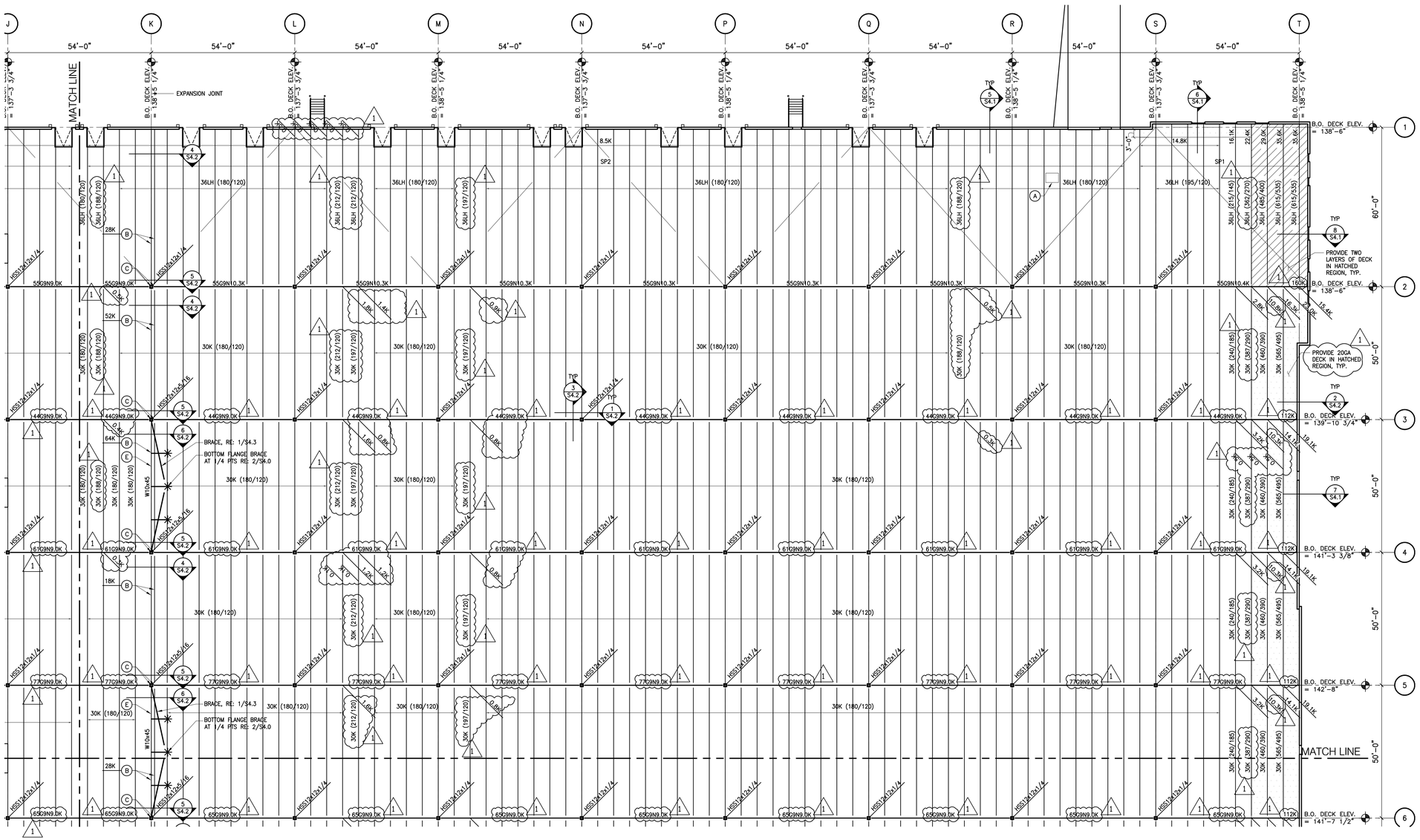


BEAM REACTION LEGEND

STEEL FABRICATOR SHALL DESIGN THE BEAM CONNECTIONS FOR THE STRENGTH LEVEL LOADS (ASD) SHOWN ON THIS PLAN, TYP. (RE: 1/S4.0)

USE MINIMUM TWO BOLT CONNECTION





1 ENLARGED PARTIAL FRAMING PLAN
SCALE: 1"=20'-0"

N

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CERTIFICATION

STATE OF MISSOURI
JAMES M. GRANICH
NUMBER PE-2014023909
PROFESSIONAL ENGINEER

04/15/2022
Missouri COA #001268

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING A LOT 1

NW CORNER TUDOR RD & MAINST
LEE'S SUMMIT, MO

ISSUE DATES

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ISSUE FOR PERMIT	02.18.2022
ISSUE FOR PERMIT	04.15.2022

210300

S2.2
ENLARGED PARTIAL FRAMING PLAN

PLAN REFERENCE NOTES:

- Ⓐ ROOF HATCH, RE: ARCH. PROVIDE ANGLE FRAME AT OPENING, RE: 8/S4.0
- Ⓑ JOIST SUPPLIER SHALL DESIGN JOISTS FOR AXIAL LOAD SHOWN.
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- Ⓔ CAMBER BEAM TO MATCH ADJACENT JOIST.

PLAN NOTES

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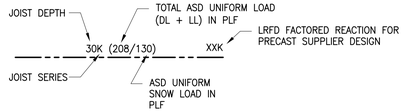
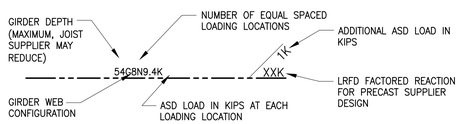
JOIST LEGEND



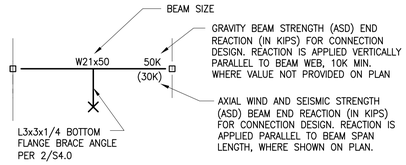
JOIST GIRDER LEGEND

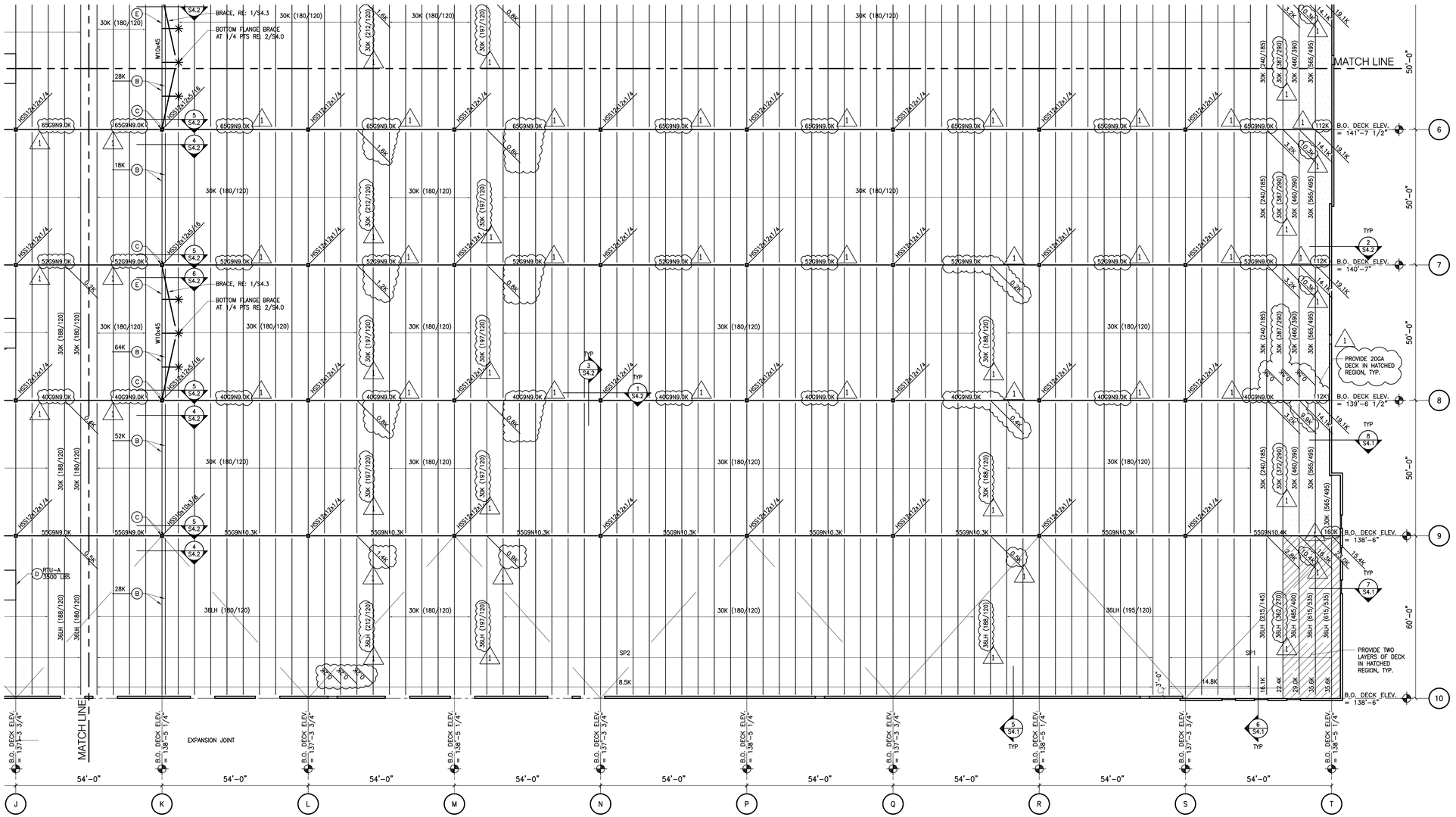


BEAM REACTION LEGEND

STEEL FABRICATOR SHALL DESIGN THE BEAM CONNECTIONS FOR THE STRENGTH LEVEL LOADS (ASD) SHOWN ON THIS PLAN, TYP. (RE: 1/S4.0)

USE MINIMUM TWO BOLT CONNECTION





1 ENLARGED PARTIAL FRAMING PLAN
SCALE: 1"=20'-0"

CURRAN
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SCANNELL PROPERTIES

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CERTIFICATION

STATE OF MISSOURI
JAMES M. GRANICH
NUMBER PE-2014023909
PROFESSIONAL ENGINEER

04/15/2022
Missouri COA #001268

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING A LOT 1

NW CORNER TUDOR RD & MAINST
LEE'S SUMMIT, MO

ISSUE DATES

ISSUE	DATE
ISSUE FOR PERMIT	02.18.2022
ISSUE FOR PERMIT	04.15.2022

210300

S2.3
ENLARGED PARTIAL FRAMING PLAN

PLAN REFERENCE NOTES:

- Ⓐ ROOF HATCH, RE: ARCH. PROVIDE ANGLE FRAME AT OPENING, RE: 8/S4.0
- Ⓑ JOIST SUPPLIER SHALL DESIGN JOISTS FOR AXIAL LOAD SHOWN.
- Ⓒ DRAG STRUT SPLICE, RE: 9/S4.0.
- Ⓓ ROOF TOP EQUIPMENT, RE: ARCH./MEP. PROVIDE ANGLE FRAME AND CURB RE: 5/S4.0 JOIST SUPPLIER SHALL ACCOUNT FOR LOAD SHOWN ON PLAN IN JOIST DESIGN.
- Ⓔ CAMBER BEAM TO MATCH ADJACENT JOIST.

PLAN NOTES

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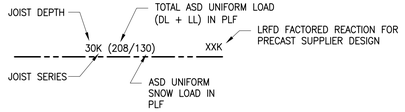
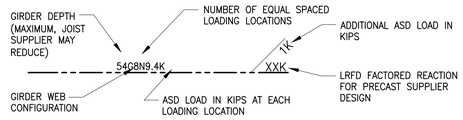
JOIST LEGEND



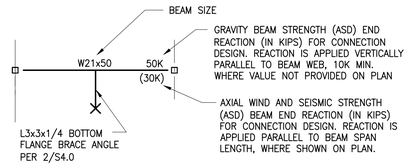
JOIST GIRDER LEGEND

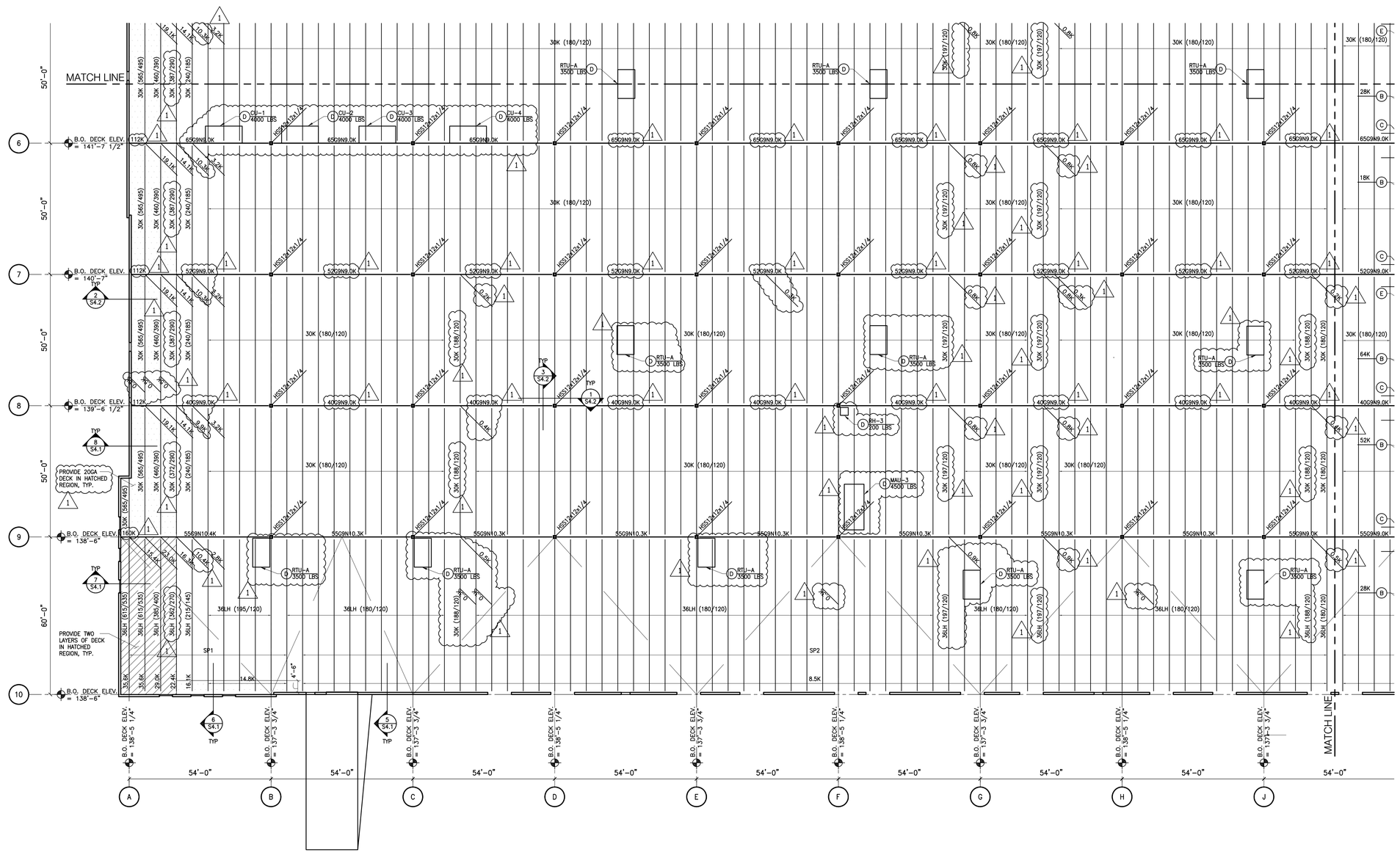


BEAM REACTION LEGEND

STEEL FABRICATOR SHALL DESIGN THE BEAM CONNECTIONS FOR THE STRENGTH LEVEL LOADS (ASD) SHOWN ON THIS PLAN, TYP. (RE: 1/S4.0)

USE MINIMUM TWO BOLT CONNECTION





1 ENLARGED PARTIAL FRAMING PLAN

SCALE: 1"=20'-0"

CURRAN ARCHITECTURE
5719 LAWTON LOOP E. DR. #212
INDIANAPOLIS, IN 46216
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STATE OF MISSOURI — JAMES M. GRANICH — NUMBER PE-2014023909 — PROFESSIONAL ENGINEER

04/15/2022
Missouri COA #001268

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING A LOT I

NW CORNER TUDOR RD & MAINST
LEE'S SUMMIT, MO

ISSUE DATES

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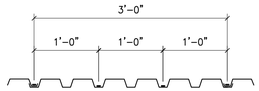
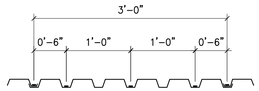
ISSUE FOR PERMIT	04.15.2022

210300

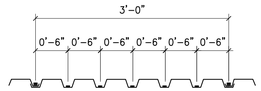
S2.4
ENLARGED PARTIAL FRAMING PLAN



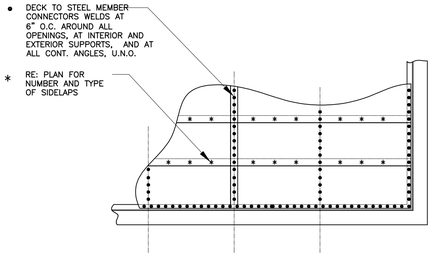
CONNECTOR PATTERN DIAGRAM (36/4)



CONNECTOR PATTERN DIAGRAM (36/5)



CONNECTOR PATTERN DIAGRAM (36/9)

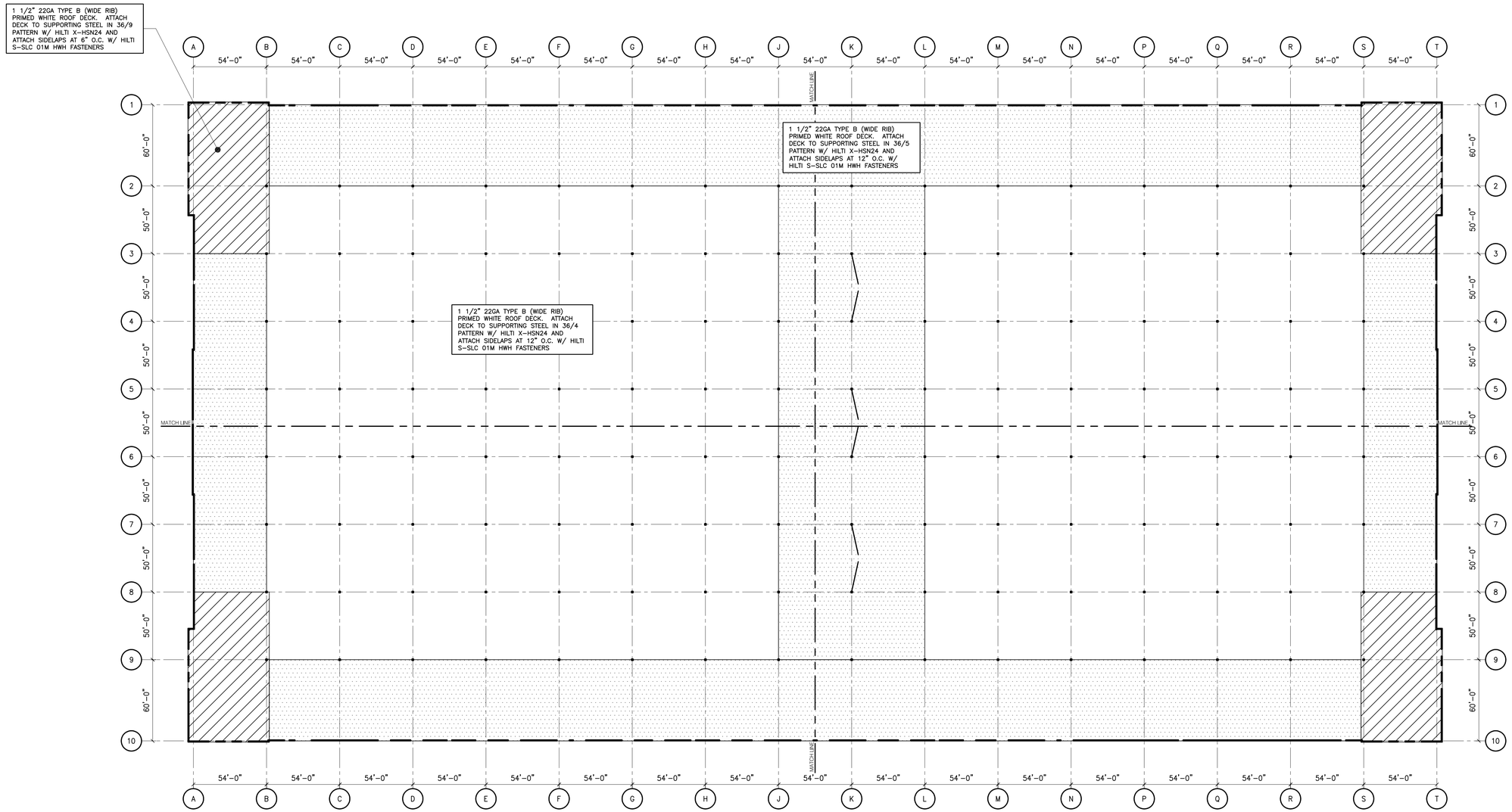


1½" TYPE B ROOF DECK

NOTE:

CONTRACTOR SHALL COORDINATE THE TYPE OF PINS USED WITH THE THICKNESS OF THE JOISTS AND JOIST GIRDERS. FOR AREAS IN WHICH THE SUPPORTING STRUCTURE IS THICKER THAN 3/8", THE X-HSN24 PINS SHALL BE SUBSTITUTED FOR X-ENP-19-L15 PINS AT THE SAME FASTENING PATTERNS SPECIFIED.

ROOF DIAPHRAGM CONNECTION DIAGRAM



1 ROOF DECK ATTACHMENT
SCALE: 1"=40'-0"

N

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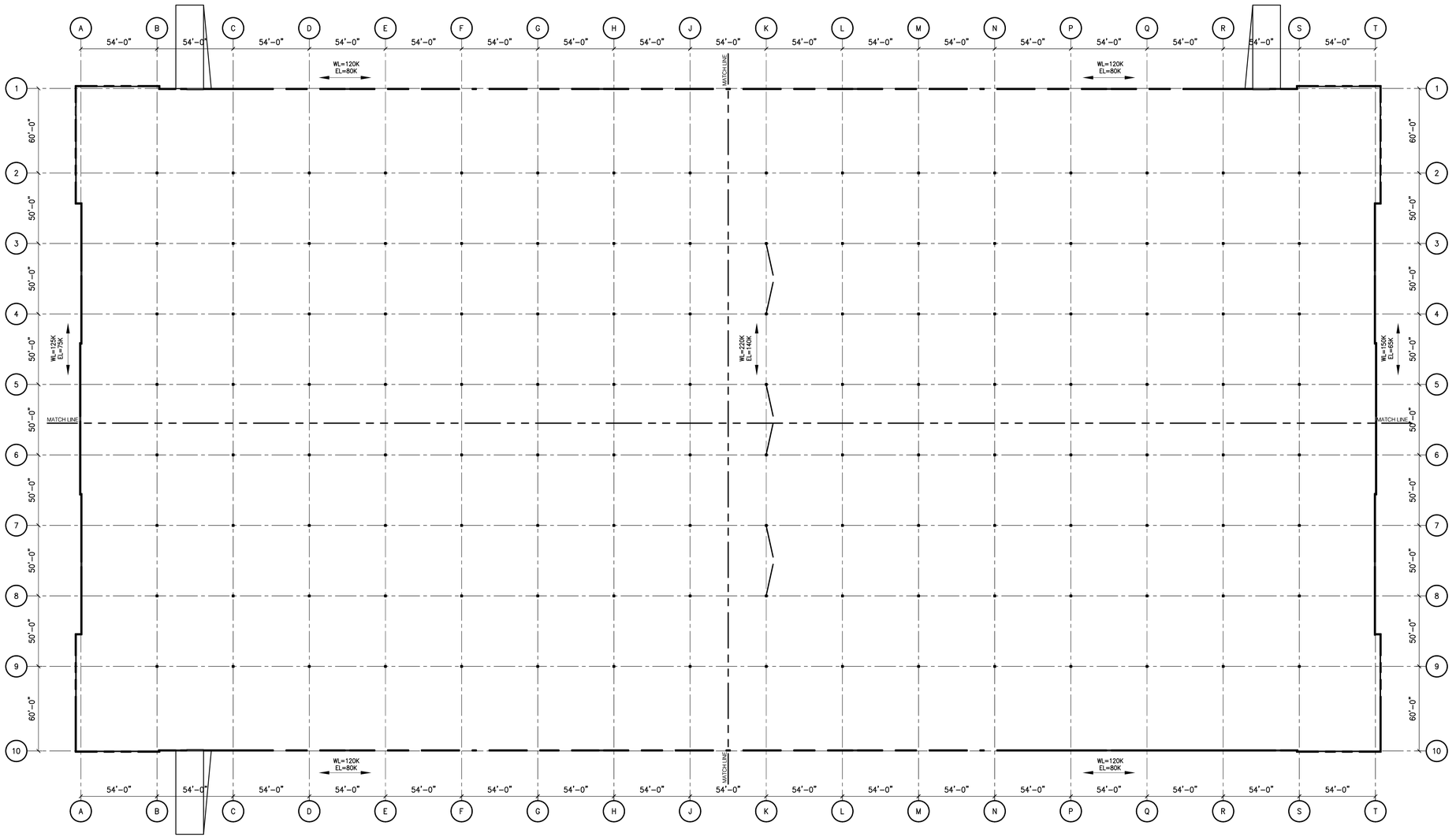
210300

S2.5
ROOF DECK ATTACHMENT PLAN

LOAD PLAN NOTES:

THE LATERAL SYSTEM OF THE BUILDING IS A COMBINATION OF SHEAR WALLS AND BRACED FRAMES. THE LOADS SHOWN ON THIS PLAN ARE THE ASD SEISMIC AND ASD WIND LOADS THAT ARE IMPARTED ON THE CONCRETE WALL PANELS, WHICH SHALL BE DESIGN AND DETAILED AS SHEAR WALLS. THE CONCRETE WALL SUPPLIER SHALL DESIGN THE PANELS TO RESIST THE LATERAL LOADS APPLIED AT THE ROOF DIAPHRAGM ELEVATION AS SHOWN PER OTHER DETAILS. THE ADDITIONAL SEISMIC LOAD INDUCED BY THE WEIGHT OF THE IN-PLANE PANELS AND OUT-OF-PLANE PANELS HAVE BEEN ACCOUNTED FOR IN THE FORCES SHOWN ON THE PLAN. THE CONCRETE WALL SUPPLIER SHALL DESIGN AND DETAIL THE CONNECTION OF THE CONCRETE PANELS TO THE FOUNDATION IN ORDER TO RESIST THE SHEAR AND UPLIFT FORCES FROM THE CONCRETE PANEL INTO THE FOUNDATION SYSTEM. THE FOUNDATION SYSTEM HAS BEEN DESIGNED FOR THE CONCRETE PANELS SHOWN TO ACT AS A COMPLETE SYSTEM ANY DEVIATIONS FROM THIS SHALL BE APPROVED BY THE ENGINEER OF RECORD.



1 LATERAL LOAD PLAN
SCALE: 1/32"=1'-0"

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CERTIFICATION

STATE OF MISSOURI
JAMES M. GRANICH
NUMBER PE-2014023909
PROFESSIONAL ENGINEER

04/15/2022
Missouri COA #001268

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS
BUILDING A LOT 1

NW CORNER TUDOR RD & MAINST
LEE'S SUMMIT, MO

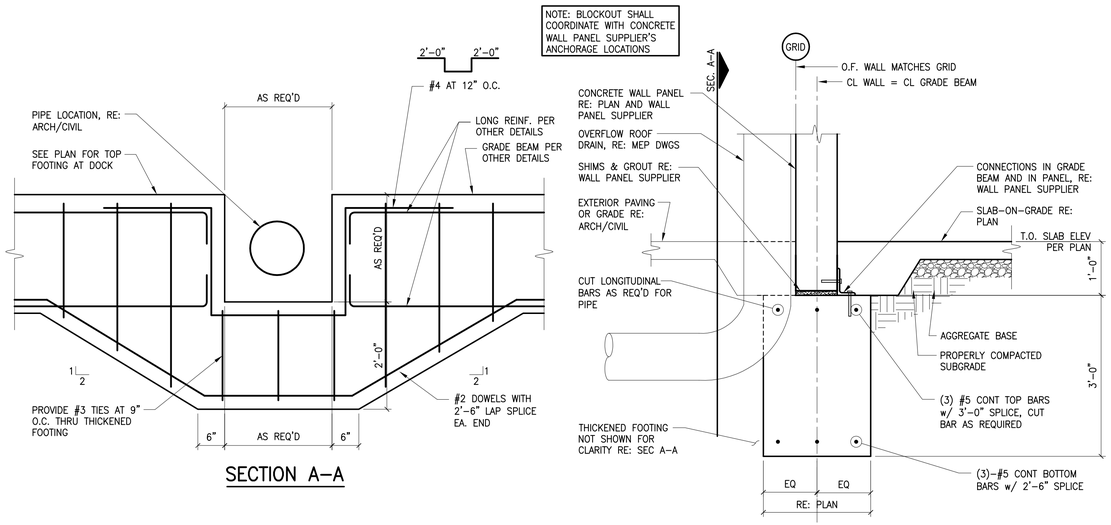
ISSUE DATES

ISSUE	DATE
ISSUE FOR PERMIT	02.18.2022
ISSUE FOR PERMIT	04.15.2022

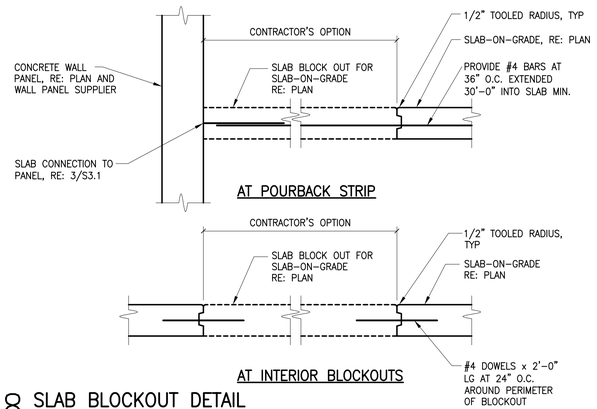
210300

S2.6
LATERAL LOAD PLAN

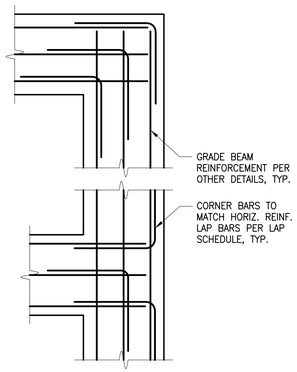
N



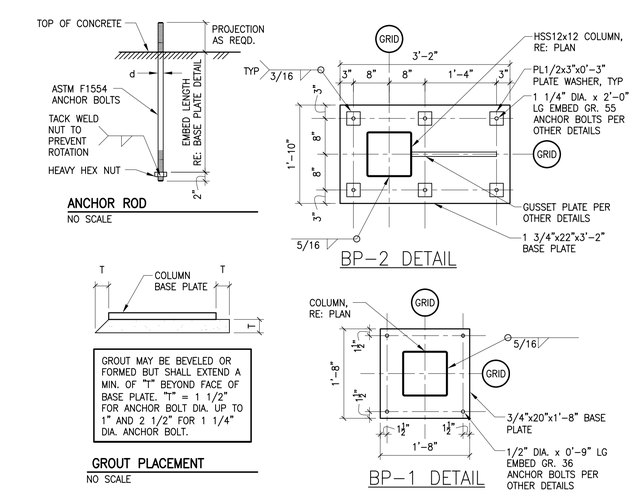
10 EXTERIOR FOOTING AT OVERFLOW DRAIN
3/4" = 1'-0"



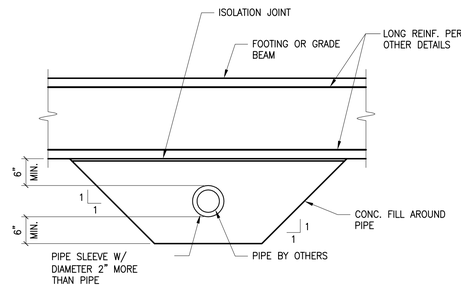
8 SLAB BLOCKOUT DETAIL
3/4" = 1'-0"



7 CORNER BAR DETAIL
3/4" = 1'-0"

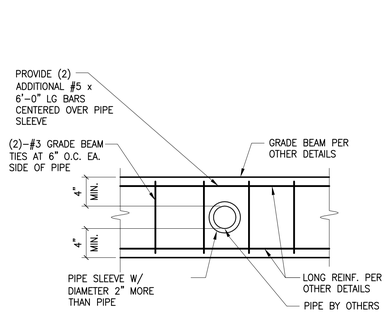


6 GRADE BEAM STEP DETAIL
3/4" = 1'-0"

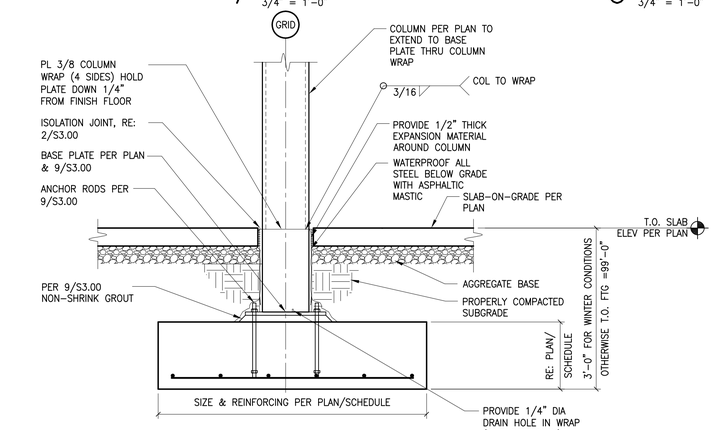


5 PIPE UNDER GRADE BEAM DETAIL
3/4" = 1'-0"

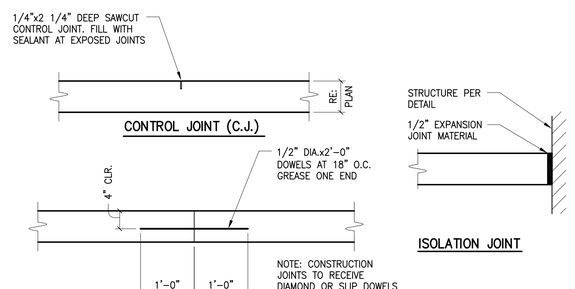
9 ANCHOR ROD BASE PLATE DIAGRAMS AND SCHEDULE
3/4" = 1'-0"



4 PIPE THRU GRADE BEAM DETAIL
3/4" = 1'-0"



3 TYPICAL INTERIOR FOOTING DETAIL
3/4" = 1'-0"



SLAB-ON-GRADE SECTION
3/4" = 1'-0"

STEEL REINF. LAP SCHEDULE (INCHES)						
BAR SIZE	CONCRETE f'c = 3000 PSI		f'c = 4000 PSI		f'c = 5000 PSI	
	TOP	OTHER	TOP	OTHER	TOP	OTHER
#3	22	17	20	16	17	13
#4	29	22	27	21	23	17
#5	36	28	33	26	28	22
#6	43	33	40	31	34	26
#7	63	48	58	45	49	38
#8	72	55	66	51	56	43
#9	91	70	79	61	71	54

1 CONC. LAP SCHEDULE
3/4" = 1'-0"

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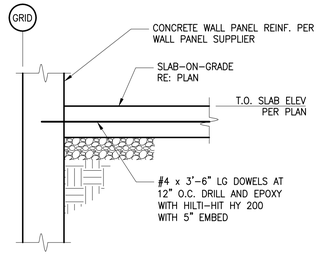
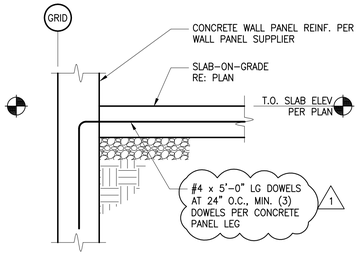
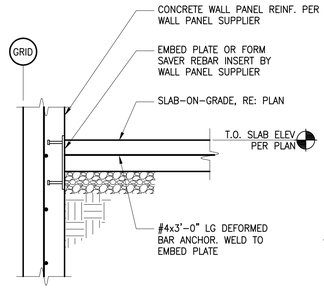
S3.0
FOUNDATION DETAILS



OPTION A

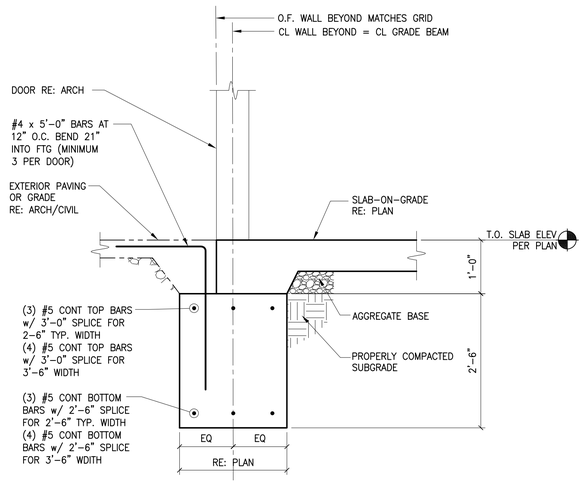


OPTION B

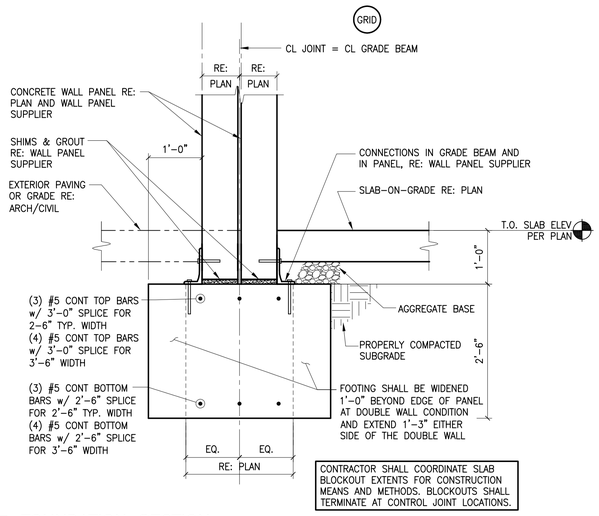


OPTION C

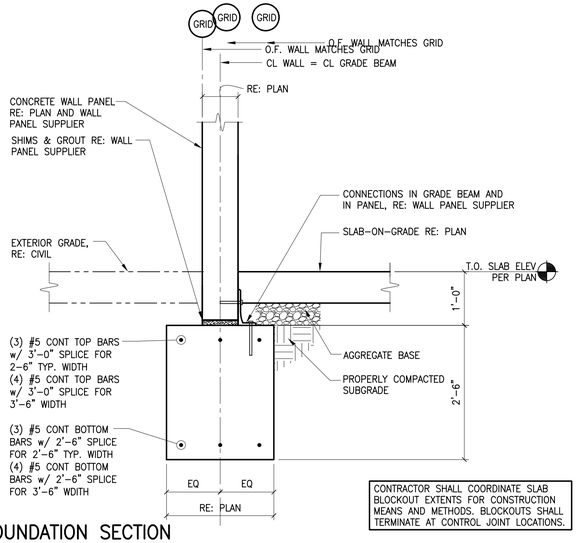
5 SLAB CONNECTION TO CONCRETE WALL PANEL OPTIONS
3/4" = 1'-0"



4 FOUNDATION SECTION
3/4" = 1'-0"



3 FOUNDATION SECTION
3/4" = 1'-0"



2 FOUNDATION SECTION
3/4" = 1'-0"

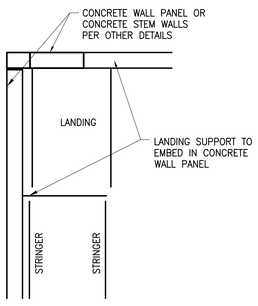
NOTE:

STAIR FRAMING IS FOR GRAPHICAL PURPOSES ONLY. STEEL FABRICATOR SHALL COORDINATE DIMENSIONS AND LOCATION OF STAIR WITH THE ENTIRE CONSTRUCTION DOCUMENTS AND NOT SOLELY THE STRUCTURAL PORTION ONLY.

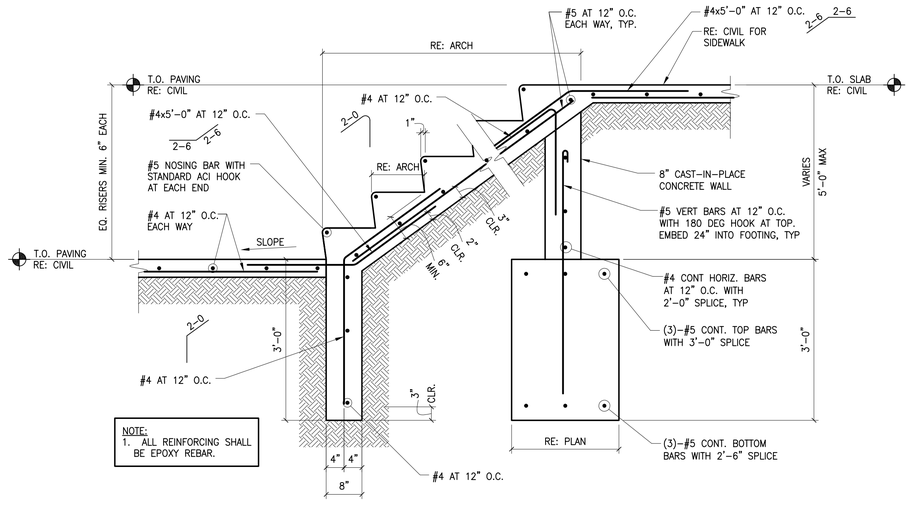
STAIR FRAMING, STRINGERS, TREADS, HANDRAILS, LANDINGS AND CONNECTION DETAILING AND DESIGN SHALL BE THE RESPONSIBILITY OF THE STEEL FABRICATOR. STEEL FABRICATOR SHALL INCLUDE THE DESIGN FOR ANY ATTACHMENTS TO THE BUILDINGS, FOUNDATIONS OR DIAPHRAGMS. DESIGN LOADS SHALL BE COORDINATED WITH THE ENGINEER OF RECORD. IF ADDITIONAL COLUMNS OR POSTS ARE REQUIRED WHERE NOT EXPLICITLY SHOWN, STEEL FABRICATOR SHALL COORDINATE ADDITIONAL FOOTINGS OR ATTACHMENT TO BEAMS WITH GENERAL CONTRACTOR AND ENGINEER OF RECORD. THE DESIGN IS A DEFERRED SUBMITTAL AND SHALL BE SUBMITTED FOR REVIEW AS SET FORTH IN THE STRUCTURAL GENERAL NOTES.

MINIMUM MEMBER SIZES ARE AS NOTED BELOW:

STRINGER:	GALV. C12x20.7
HEADER:	GALV. C12x20.7
TREADS:	1 1/4" DEEP BAR GRATING
LANDING DECK:	1 1/4" DEEP BAR GRATING



STEEL STAIR



CONCRETE STAIRS-ON-GRADE

1 STAIR DETAILS
3/4" = 1'-0"

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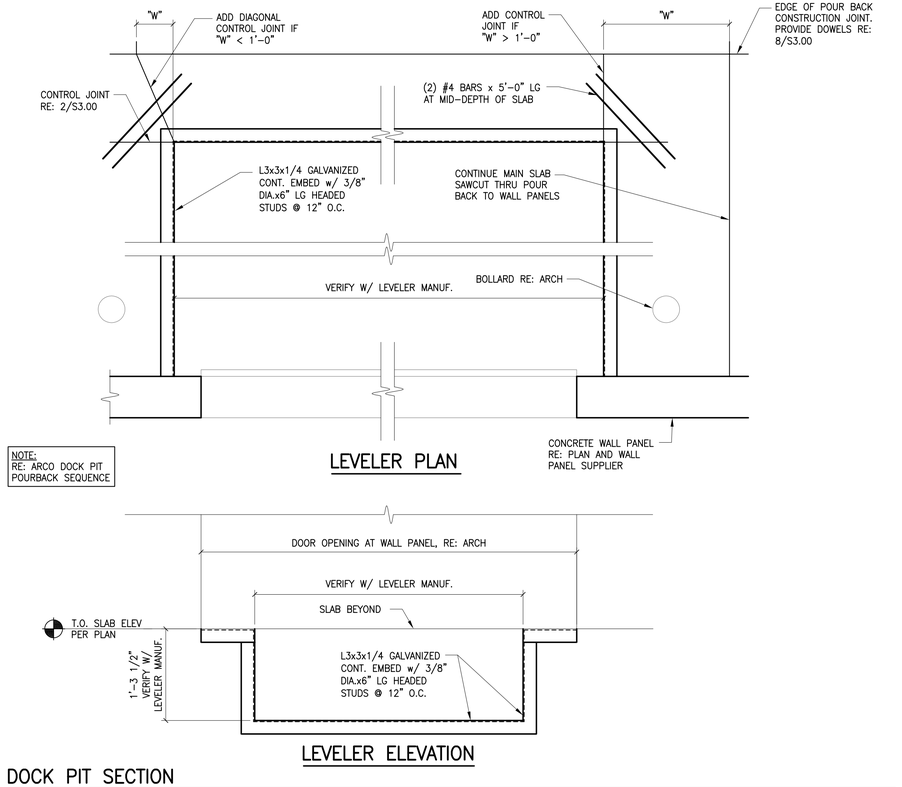
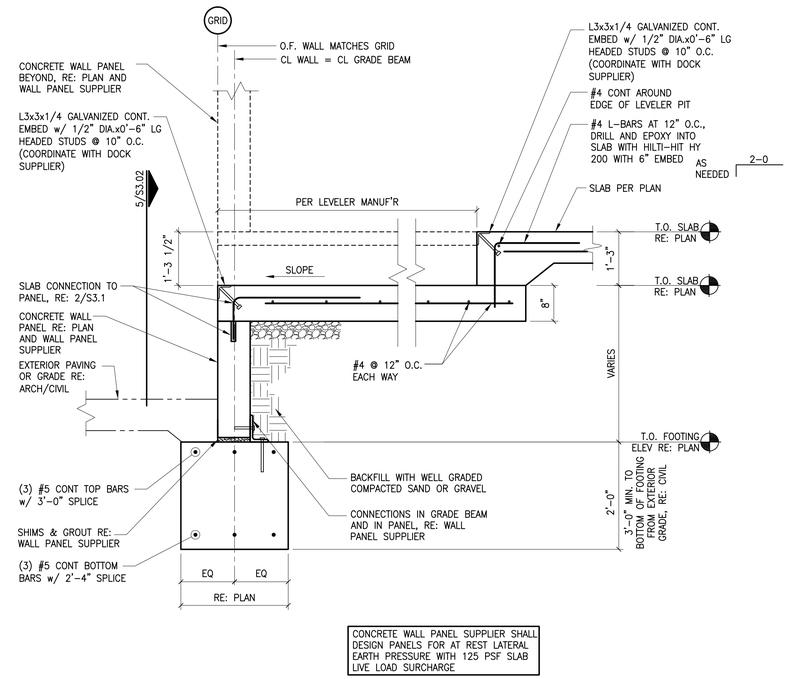
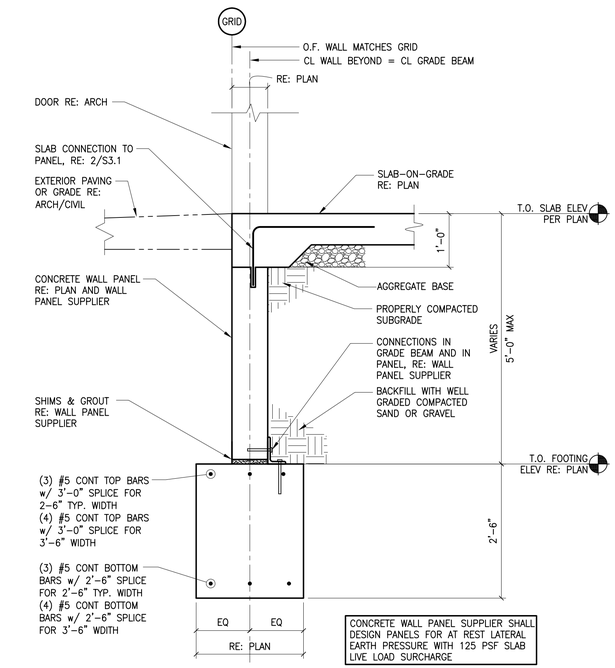
S3.1
FOUNDATION DETAILS



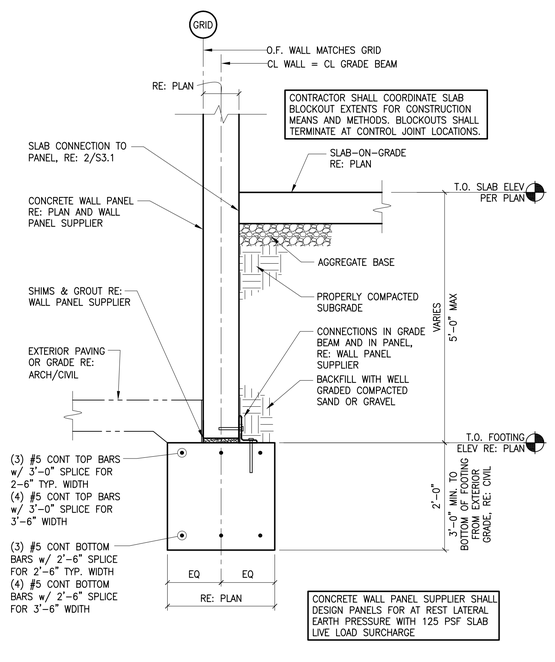
5 DOCK PIT SECTION
3/4" = 1'-0"



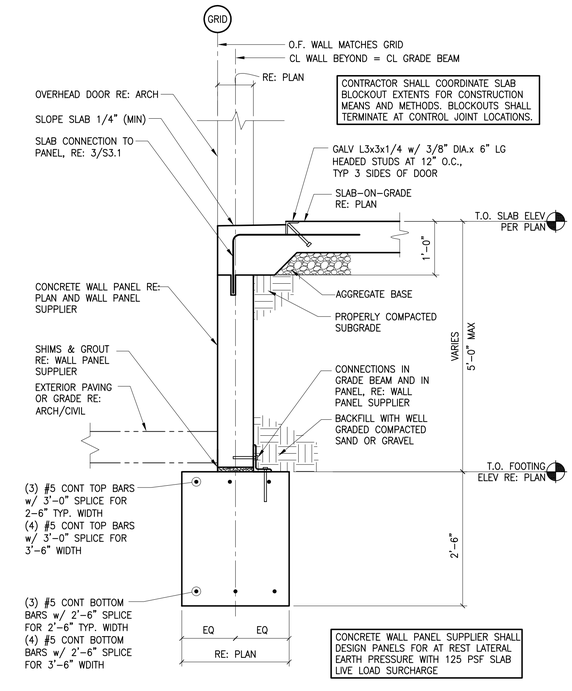
4 FOUNDATION SECTION
3/4" = 1'-0"



3 FOUNDATION SECTION
3/4" = 1'-0"



2 FOUNDATION SECTION AT DOCK WALL
3/4" = 1'-0"



1 FOUNDATION SECTION AT OVERHEAD DOOR
3/4" = 1'-0"

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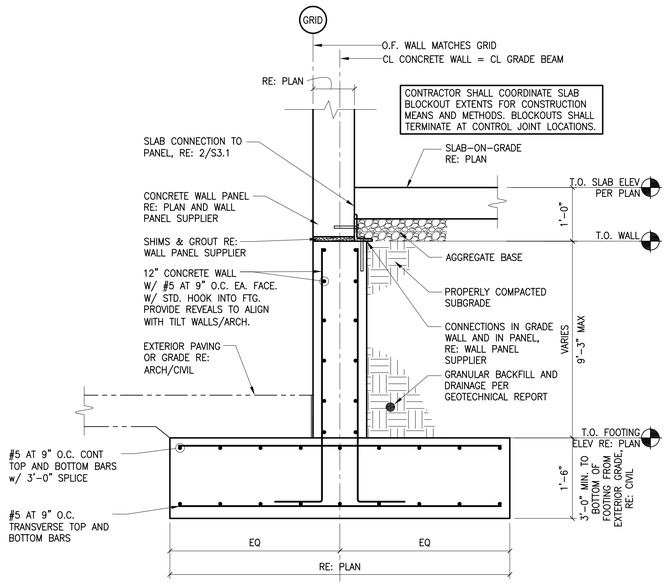
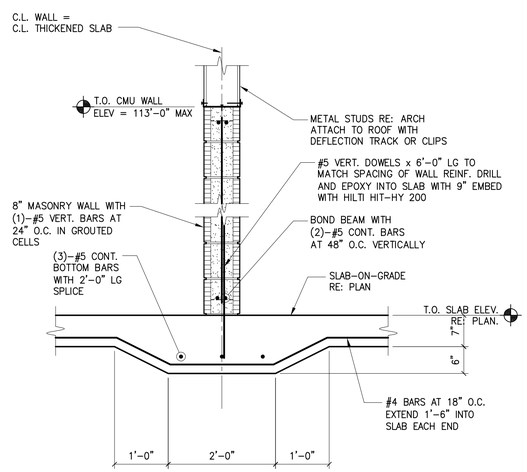
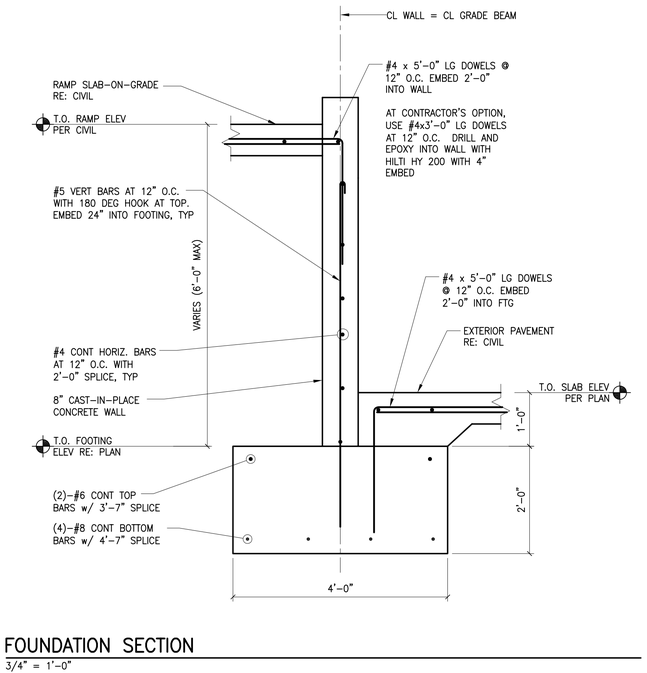
S3.2
FOUNDATION DETAILS



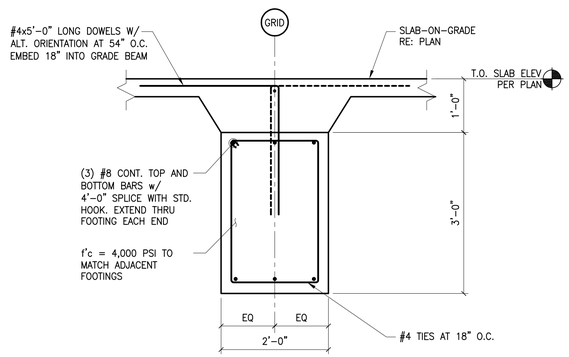
6 FOUNDATION SECTION
3/4" = 1'-0"



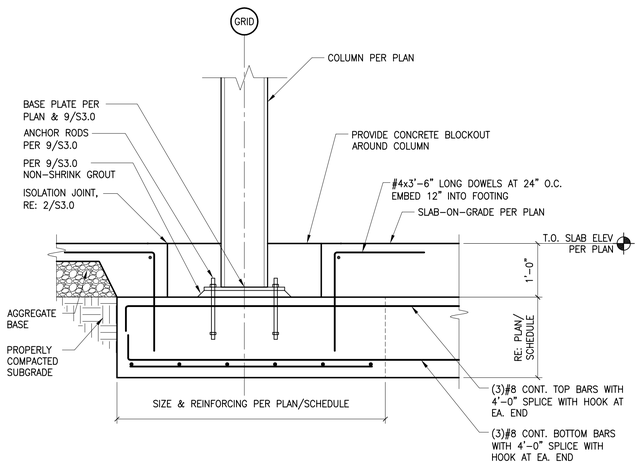
5 FOUNDATION SECTION
3/4" = 1'-0"



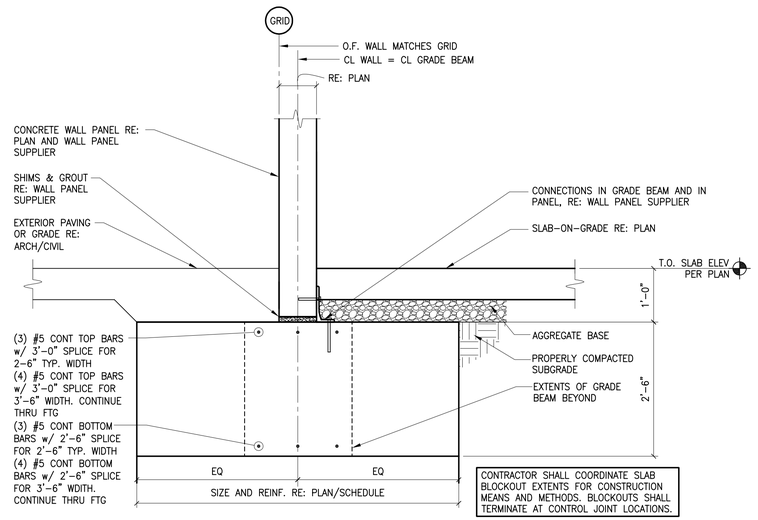
4 FOUNDATION SECTION
3/4" = 1'-0"



1
3 FOUNDATION SECTION
3/4" = 1'-0"



2 TYPICAL BRACED FRAME FOOTING DETAIL
3/4" = 1'-0"



1 FOUNDATION SECTION
3/4" = 1'-0"

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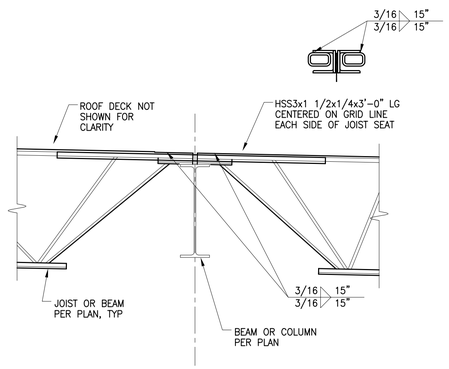
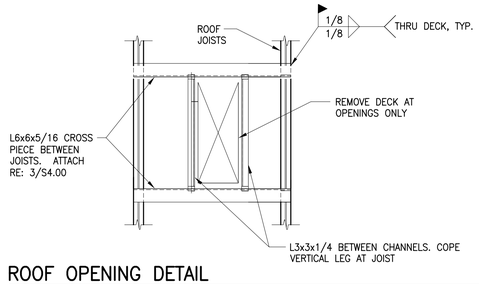
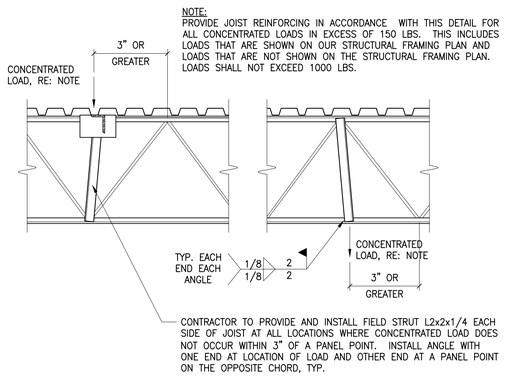
S3.3
FOUNDATION DETAILS



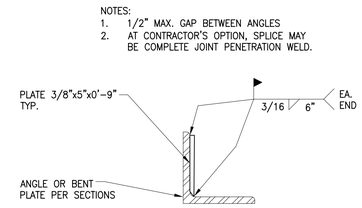
9 TYPICAL DRAG STRUT DETAIL AT EXPANSION JOINT
3/4" = 1'-0"



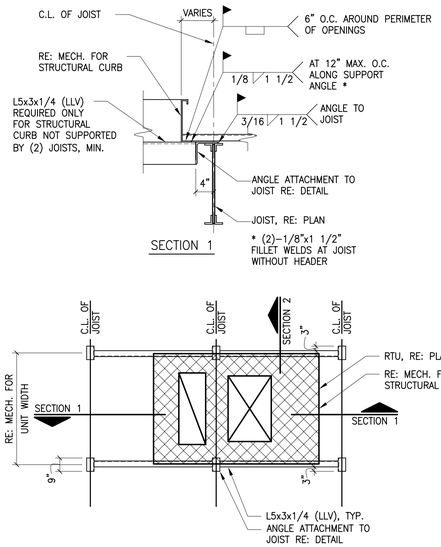
8 ROOF OPENING DETAIL
3/4" = 1'-0"



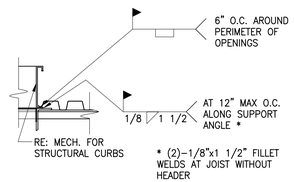
7 JOIST REINFORCING DETAIL
3/4" = 1'-0"



6 SPLICE DETAIL
3/4" = 1'-0"



SECTION 1



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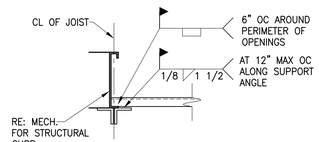

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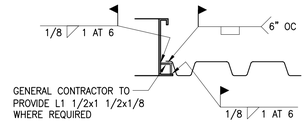
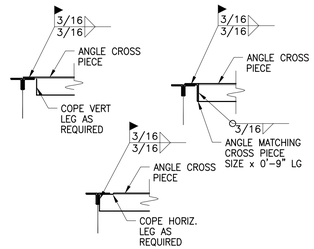
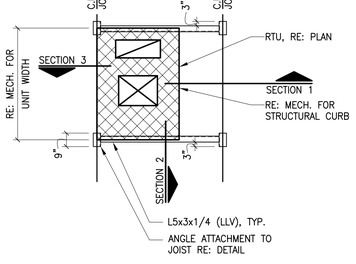


DETAIL 1

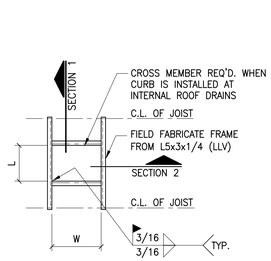


ANGLE ATTACHMENT TO JOIST DETAIL

TYP. AT UNIT SPANNING MULTIPLE JOISTS



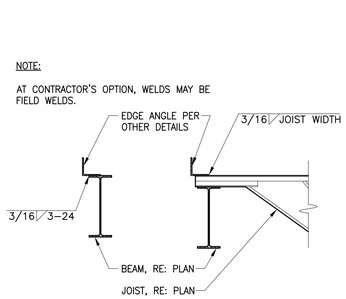
TYP. AT UNIT BETWEEN JOISTS



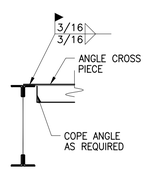
OPENING IN ROOF LARGER THAN 10"x10"

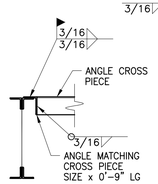
NOTES:
1. INSTALL CURBS, HEADERS, AND FRAMES AND WELD TO SUPPORT STEEL BEFORE DECK IS PLACED.
2. DESIGN JOISTS SUPPORTING RTU'S FOR TWO POINT LOADS. THE LOCATION OF THE LOADS AND THE SPACING BETWEEN THEM VARY. RE: RTU JOIST DIAGRAM THIS DETAIL AND ROOF FRAMING PLAN FOR POINT LOADS AND LOCATIONS.
3. RTU CURBS SHALL BE STRUCTURAL, DESIGNED TO SPAN BETWEEN JOISTS AND SUPPORT EDGES OF DECK. CURBS TO BE FABRICATED WITH LEDGE ANGLES (L2x2x1/4) AT MECHANICAL OPENINGS TO SUPPORT METAL DECK INSIDE OPENING NOT USED BY SUPPLY OR RETURN DUCT WORK. HEADERS ARE NOT REQUIRED FOR STRUCTURAL CURBS EXCEPT WHEN THE CURB DOES NOT SPAN BETWEEN TWO JOISTS OR THE CURB CANTILEVERS MORE THAN TWO FEET PAST JOIST.
4. ATTACH DECK AROUND OPENING PER ROOF DIAPHRAGM CONNECTION DETAIL.
5. IF CURB IS NOT PLACED WITHIN 3" OF A JOIST PANEL POINT, RE: JOIST REINFORCING DETAIL RE: 7/S4.00.
6. GENERAL CONTRACTOR SHALL COORDINATE RTU DIMENSIONS AND FRAMING LOCATIONS WITH THE STEEL FABRICATOR, MECHANICAL, AND ERECTION SUBCONTRACTORS.
7. STEEL SUPPLIER TO FURNISH STOCK ANGLE FOR FIELD FABRICATED SUPPORT FRAMES.
8. RE: DETAIL 1 FOR CONN. OF DECK PARALLEL TO CURB (WHERE REQ'D.).
9. RE: MECH. FOR ROOF TOP UNIT ANCHORAGE TO CURBS.

5 MECHANICAL UNIT SUPPORT DETAIL
3/4" = 1'-0"

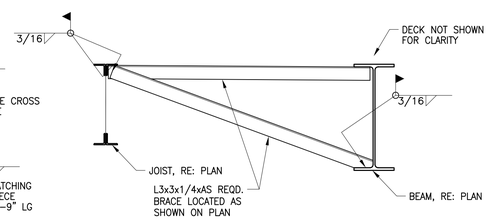


4 EDGE ANGLE CONNECTION DETAIL
3/4" = 1'-0"

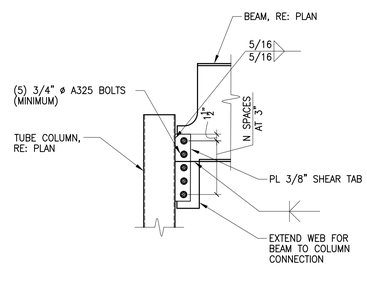




3 ANGLE CONNECTION DETAILS
3/4" = 1'-0"



2 BOTTOM FLANGE BRACING DETAIL
3/4" = 1'-0"



1 BEAM CONNECTION DETAIL
3/4" = 1'-0"

NOTES:
1. ALL CONNECTIONS ON THE STRUCTURAL DRAWINGS, UNLESS NOTED OTHERWISE, SHALL BE DESIGNED AND DETAILED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED, EMPLOYED OR RETAINED BY THE STEEL FABRICATOR. THE DESIGN AND DETAILING SHALL COMPLY WITH ALL APPLICABLE COES AND SPECIFICATION SECTIONS.
2. CONNECTIONS SHOWN ARE FOR REFERENCE ONLY. FABRICATOR MAY USE OTHER AISC APPROVED CONNECTIONS.
3. ALL BOLTS SHALL BE 3/4" DIAMETER A325 w/ HEAVY HEX NUTS, UNLESS NOTED OTHERWISE.
4. ALL CONNECTIONS SHALL BE BEARING TYPE CONNECTIONS AND SHALL BE SNUG TIGHTENED UNLESS NOTED OTHERWISE.
5. FOR BEAMS WITH AXIAL REACTIONS PER PLAN, CONNECTIONS SHALL BE DESIGNED AS FULLY TENSIONED SLIP CRITICAL PER AISC SPECIFICATIONS.

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CERTIFICATION

STATE OF MISSOURI
JAMES M. GRANICH
NUMBER PE-2014023909
PROFESSIONAL ENGINEER

04/15/2022
Missouri COA #001268

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING A LOT 1

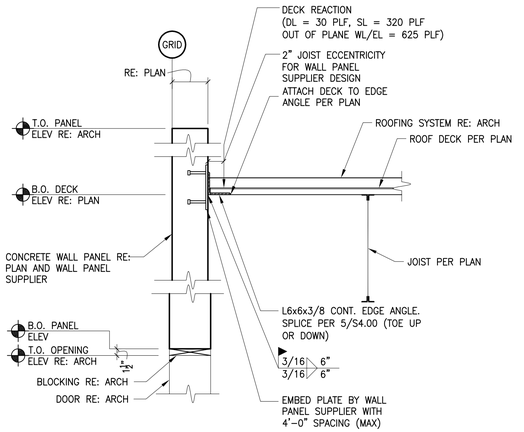
NW CORNER TUDOR RD & MAINST
LEE'S SUMMIT, MO

ISSUE DATES

ISSUE	DATE
ISSUE FOR PERMIT	02.18.2022
ISSUE FOR PERMIT	04.15.2022

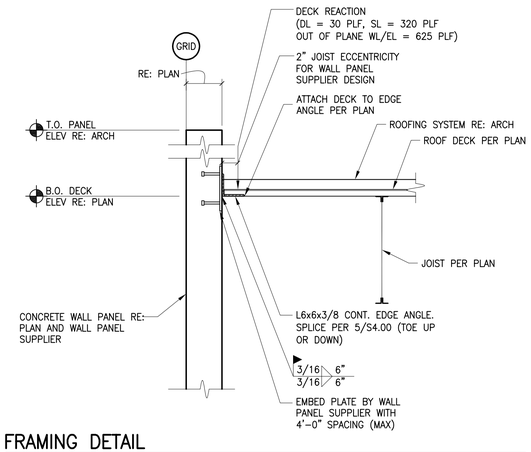
210300

S4.0
FRAMING DETAILS



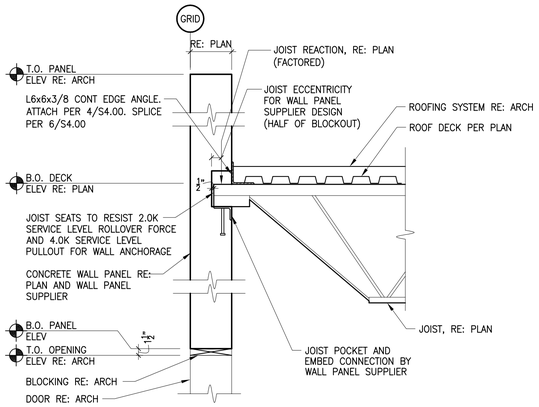
8 FRAMING DETAIL AT OPENING

3/4" = 1'-0"

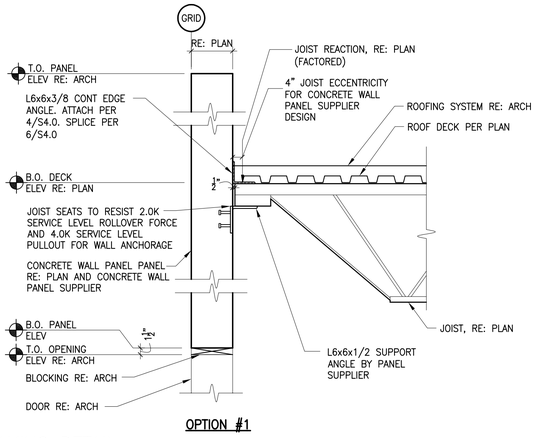


7 FRAMING DETAIL

3/4" = 1'-0"



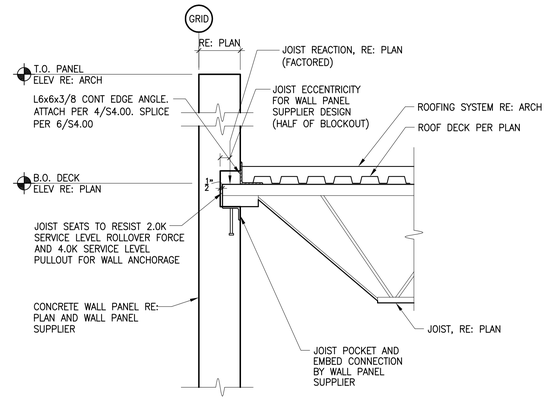
OPTION #2



OPTION #1

6 FRAMING DETAIL

3/4" = 1'-0"



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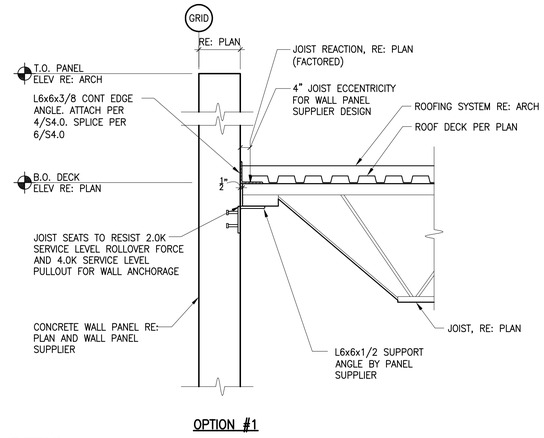
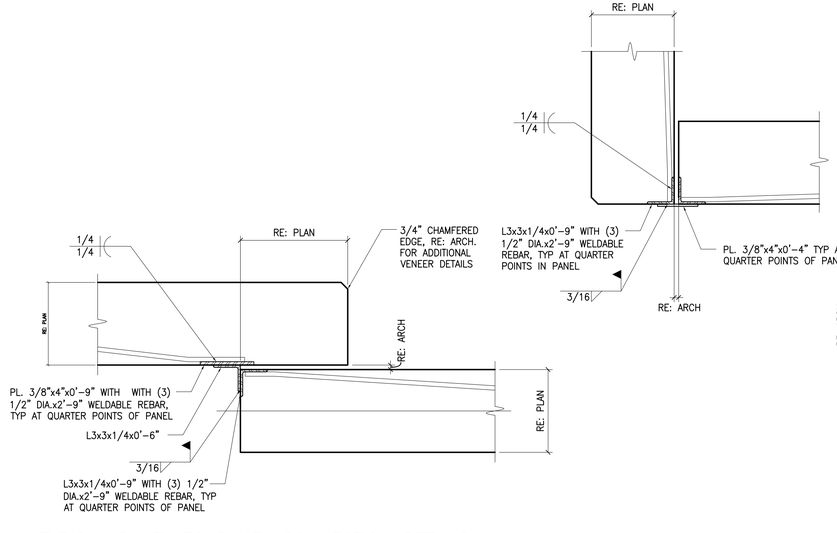


OPTION #1

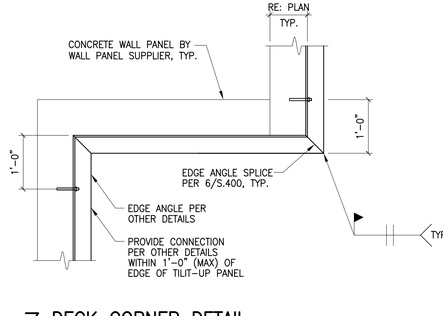
5 FRAMING DETAIL

3/4" = 1'-0"



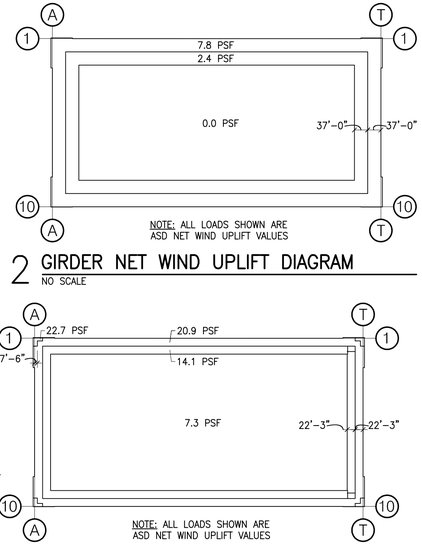
4 TYPICAL PANEL TO PANEL CONNECTION DETAILS

1 1/2" = 1'-0"



3 DECK CORNER DETAIL

3/4" = 1'-0"



2 GIRDER NET WIND UPLIFT DIAGRAM

NO SCALE

1 JOIST NET WIND UPLIFT DIAGRAM

NO SCALE

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CERTIFICATION

STATE OF MISSOURI
JAMES M. GRANICH
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04/15/2022
Missouri COA #001268

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING A LOT I

NW CORNER TUDOR RD & MAINST
LEE'S SUMMIT, MO

ISSUE DATES

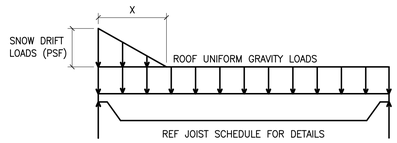
ISSUE	DATE
ISSUE FOR PERMIT	02.18.2022
ISSUE FOR PERMIT	04.15.2022

210300

S4.1

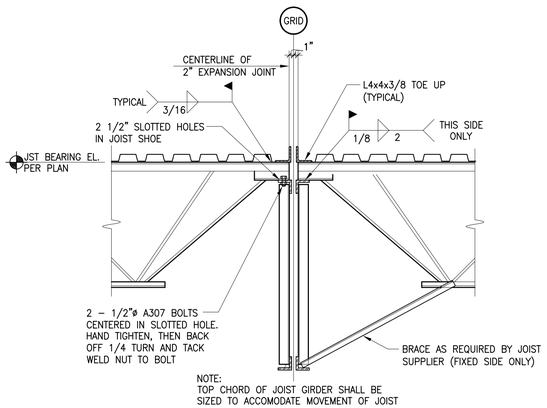
FRAMING DETAILS

SPECIAL JOIST LOADS		
MARK	SNOW DRIFT (PSF)	SNOW WIDTH (X)
SP1	79	18'-11"
SP2	33	15'-11"

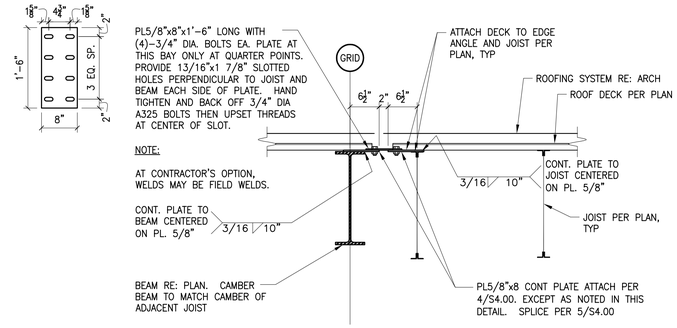


JOIST DIAGRAM

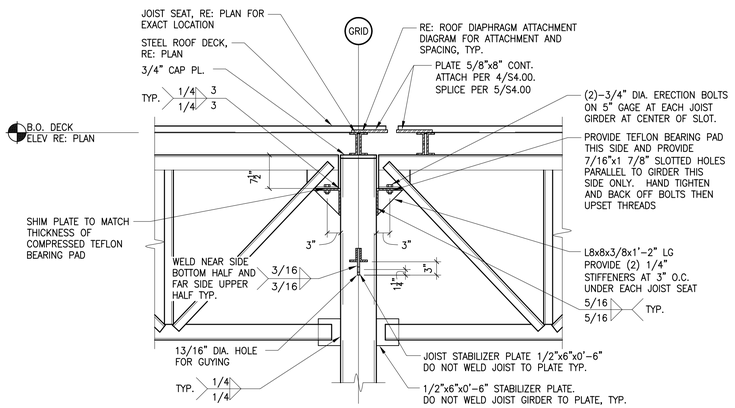
8 SPECIAL JOIST SCHEDULE
3/4" = 1'-0"



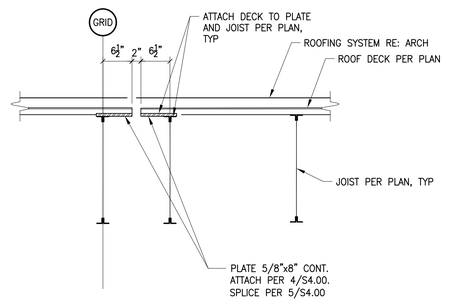
7 JOIST TO GIRDER DETAIL AT EXPANSION JOINT
3/4" = 1'-0"



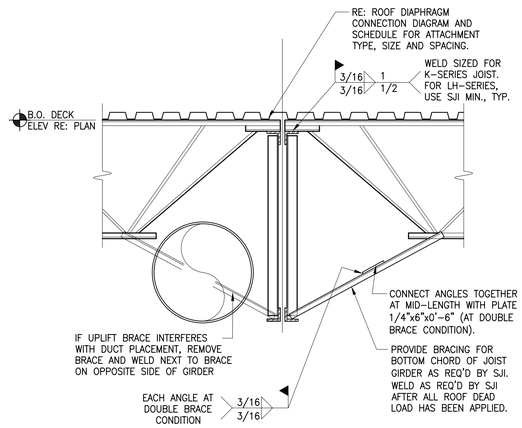
6 JOIST TO BEAM DETAIL AT EXPANSION JOINT
3/4" = 1'-0"



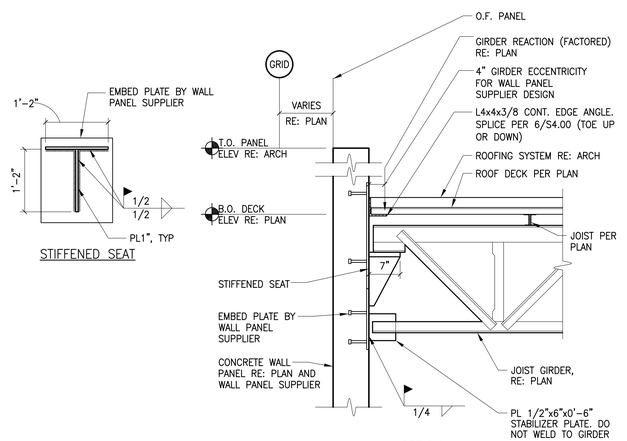
5 GIRDER DETAIL AT EXPANSION JOINT
3/4" = 1'-0"



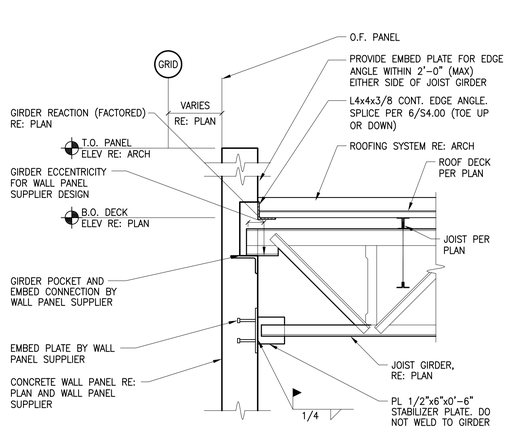
4 JOIST DETAIL AT EXPANSION JOINT
3/4" = 1'-0"



3 JOIST/JOIST GIRDER SECTION
3/4" = 1'-0"

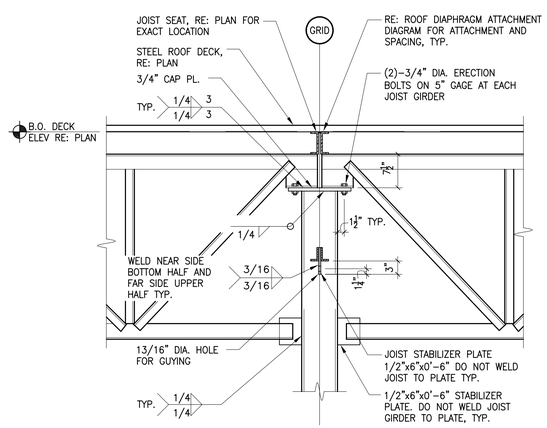


OPTION #1



OPTION #2

2 GIRDER TO WALL PANEL FRAMING DETAIL
3/4" = 1'-0"



1 JOIST GIRDER/COLUMN CONNECTION
3/4" = 1'-0"

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CERTIFICATION

STATE OF MISSOURI
JAMES M. GRANICH
NUMBER PE-2014023909
PROFESSIONAL ENGINEER

04/15/2022
Missouri COA #001268

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING A LOT 1

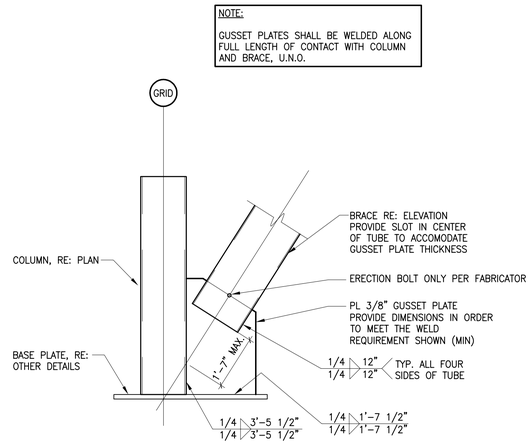
NW CORNER TUDOR RD & MAINST
LEE'S SUMMIT, MO

ISSUE DATES

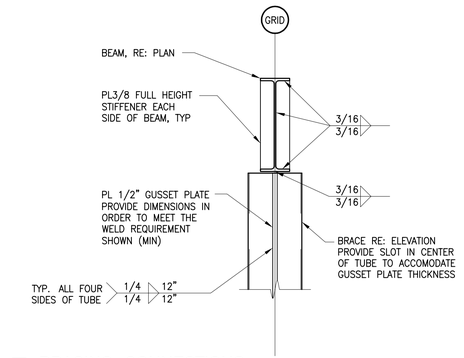
ISSUE	DATE
ISSUE FOR PERMIT	02.18.2022
ISSUE FOR PERMIT	04.15.2022

210300

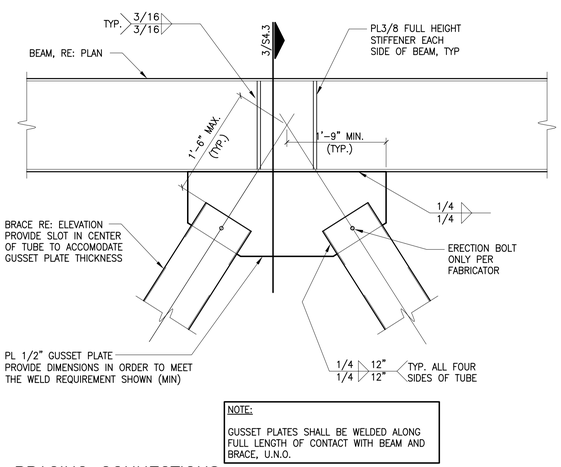
S4.2
FRAMING DETAILS



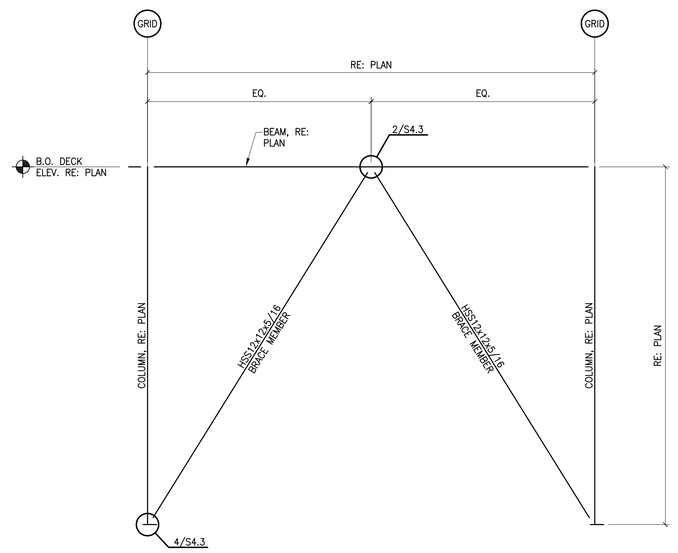
4 BRACING CONNECTIONS
N.T.S.



3 BRACING CONNECTIONS
3/4" = 1'-0"



2 BRACING CONNECTIONS
N.T.S.



1 BRACED FRAME ELEVATIONS
1/8" = 1'-0"

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CERTIFICATION

STATE OF MISSOURI
JAMES M. GRANICH
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PROFESSIONAL ENGINEER

04/15/2022
Missouri COA #001268

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING A LOT 1

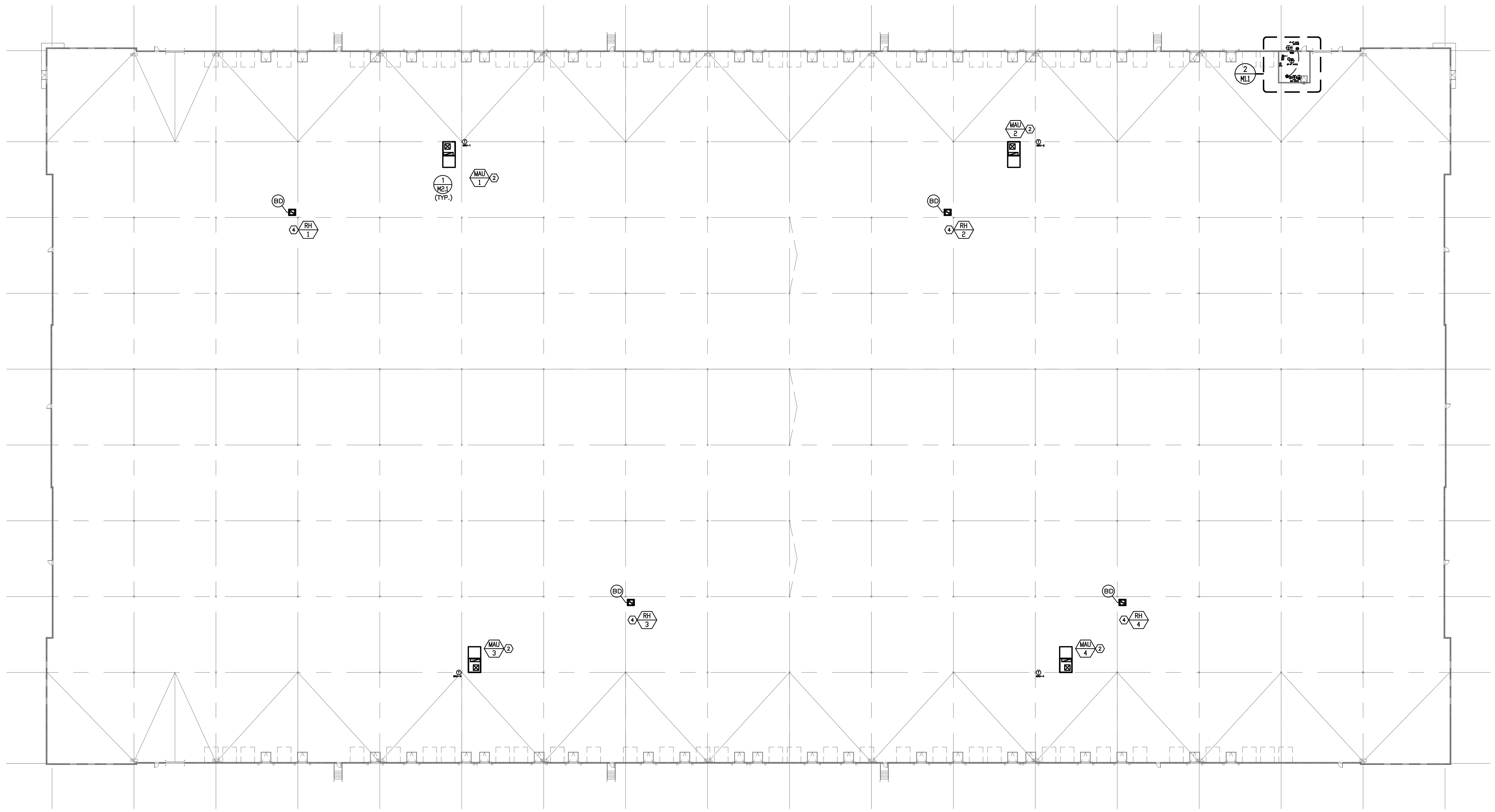
NW CORNER TUDOR RD & MAINST
LEE'S SUMMIT, MO

ISSUE DATES

ISSUE	DATE
ISSUE FOR PERMIT	02.18.2022
ISSUE FOR PERMIT	04.15.2022

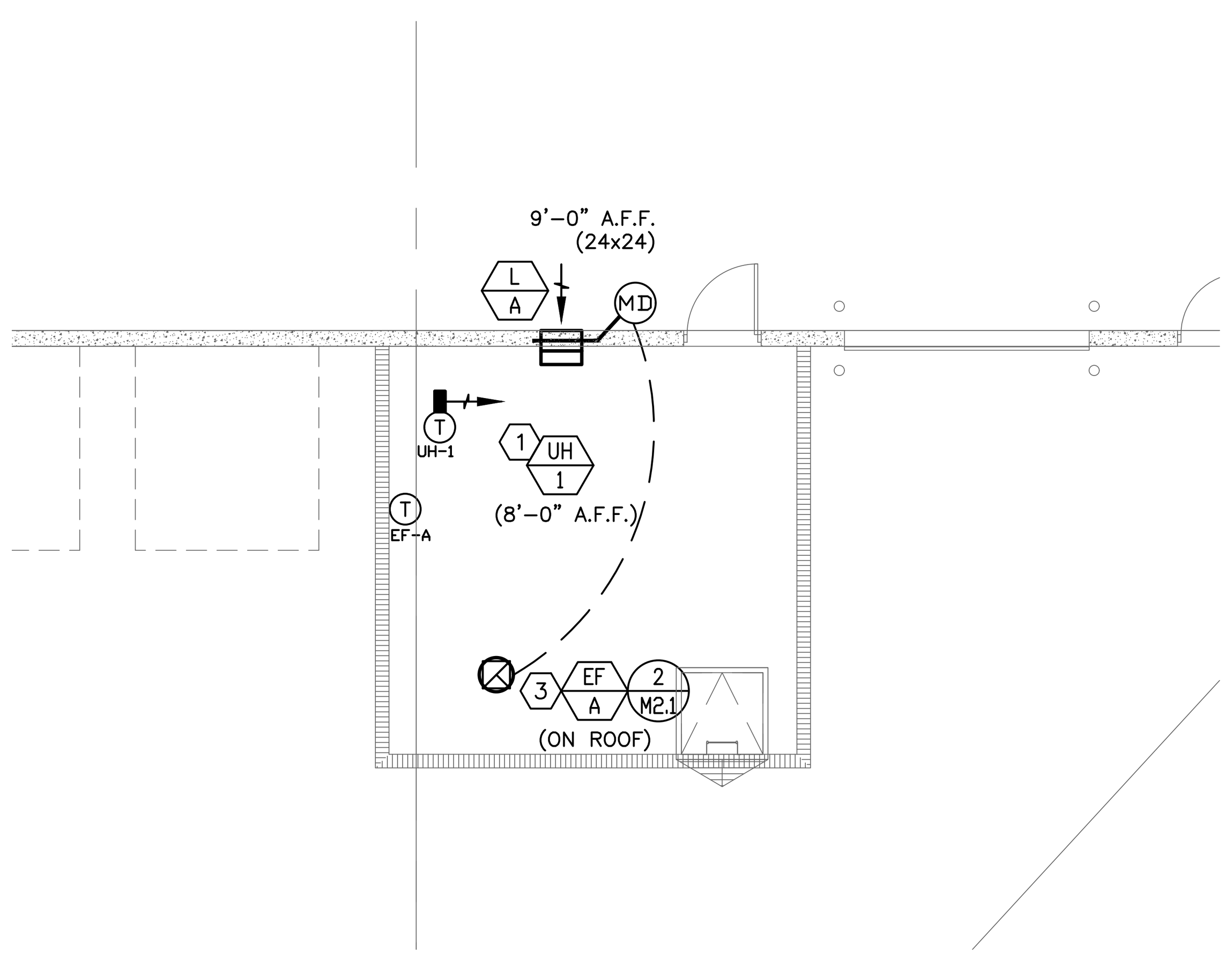
210300

S4.3
FRAMING DETAILS



1 Overall Mechanical Floor Plan
scale: 1" = 40'-0"

north



2 Pump Room Mechanical Plan
scale: 1/8" = 1'-0"

north

MECHANICAL GENERAL NOTES:

1. ALL MECHANICAL DUCTWORK SHALL BE GALVANIZED STEEL, CONSTRUCTED ACCORDING TO SMACNA STANDARDS.
2. ALL RECTANGULAR SUPPLY, RETURN AND EXHAUST AIR DUCTWORK SHALL BE UNINSULATED. DUCTWORK DIMENSIONS SHOWN ARE ACTUAL SIZES.
3. HVAC CONTRACTOR WILL CHECK EACH SYSTEM FOR PROPER OPERATION UPON START-UP.
4. MAINTAIN MINIMUM 10'-0" FROM ALL PLUMBING VENTS AND EXHAUST VENTS TO ALL OUTSIDE AIR INTAKES.

MECHANICAL PLAN NOTES:

(1) ELECTRIC UNIT HEATER FURNISHED BY MECHANICAL, INSTALLED BY ELECTRICAL CONTRACTOR.

(2) GAS-FIRED MAKE-UP AIR UNIT PER SCHEDULE. ELECTRICIAN TO INSTALL THERMOSTAT/CONTROLLER ON NEAREST COLUMN AT 10'-0" A.F.F. (OR PER TENANT) SUPPLY AIR 43"X43.2", RETURN AIR 75.75"X21.25"

(3) EXTEND 16X16 EXHAUST DUCT DOWN BELOW STRUCTURE WITH MESH OPENING. EXHAUST FAN TO BE CONTROLLED BY LINE VOLTAGE THERMOSTAT.

(4) ROOF MOUNTED RELIEF AIR HOOD WITH BACKDRAFT DAMPER PER LEGEND. PROVIDE 36"X36" DUCTWORK DROP THRU ROOF WITH DAMPER INSTALLED AT BOTTOM.

LEGEND

UH 1	DAYTON UNIT HEATER 15 KW, 460/3 PHASE – PROVIDE WITH UNIT MOUNTED THERMOSTAT. MOUNT BOTTOM OF HEATER 8'-0" A.F.F.
L A	GREENHECK INTAKE LOUVER MODEL ESD635, 24"X24" WITH BIRDSCREEN AND MOTORIZED 120V DAMPER. MOUNT BOTTOM OF LOUVER 6'-0" A.F.F. LOUVER TO BE INTERLOCKED WITH ROOF MOUNTED EXHAUST FAN EF-A.
EF A	GREENHECK ROOF MOUNTED EXHAUST FAN MODEL G-123, 1/3 HP @ 120/1 PHASE. PROVIDE WITH BACKDRAFT DAMPER, 14" ROOF CURB AND LINE VOLTAGE THERMOSTAT. FAN SIZED FOR 1,500 CFM @ 0.25 ESP.
RH 1 THRU RH 4	GREENHECK ROOF MOUNTED RELIEF HOOD FGR-36X36. PROVIDE WITH BACKDRAFT DAMPER & 14" ROOF CURB APPROXIMATELY 200 LBS WITH CURB. PROVIDE WITH 1/2" ARMAFLEX OR MANUFACTURER'S STANDARD INSULATION.

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CERTIFICATION

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS
BUILDING A LOT 1

NW CORNER OF
NE TUDOR RD & MAIN ST
LEE'S SUMMIT, MO 64086

STATE OF MISSOURI
MATTHEW DAVID KELSO
NUMBER
PE-2016027003
4/21/2022
PROFESSIONAL ENGINEER

ISSUE DATES

PERMIT SET	04.21.22

210300

MetroAir

LSCC BLDG. #1

LEE'S SUMMIT, MO

SCALE: AS NOTED	DATE: 4/21/22	DRAWN BY: M.D.K.
APPROVED BY: JDG	DWG # M1 OF 2	
PERMIT		

M1.1

SECTION 1500 - MECHANICAL GENERAL PROVISIONS

1.1 DESCRIPTION:

A. Division 15 shall be governed by all applicable provisions of the Contract Documents. The Mechanical Contractor shall furnish, install and connect all materials, equipment, apparatus, mechanical systems and incidentals required for complete and working installation. The Contractor shall supply all necessary labor, equipment, tools, insurance, taxes services; and The Contractor shall assume full responsibility for all obligations associated with completion of mechanical work as provided by the Contract Documents.

1.2 STANDARDS, REGULATIONS AND CODES:

A. The work shall comply with the edition of the applicable standards, regulations and codes currently in force of all State and location authorities having jurisdiction. Where quantities, sizes, or other requirements indicated on the drawings or herein specified are in excess of the standard or code requirements, the specifications and/or drawings shall govern. In the absence of other applicable local codes, acceptable to the Architect/Engineer, the Uniform Plumbing and Mechanical Codes shall apply to this work.

B. The Contractor shall comply with rules and regulations of public utilities and municipal departments affected by connections of services. The Contractor shall pay all fees associated there with.

C. The Mechanical Contractor shall be licensed to perform mechanical work in the municipality in which the project is located.

D. All products and types of construction shall meet or exceed the latest edition of applicable standards of manufacturer, testing, performance and installation.

1.3 LOCAL CONDITIONS:

A. The Contractor shall carefully examine the local conditions and existing installations and shall thoroughly familiarize himself with all existing conditions which may affect his work. The Contractor shall locate all existing utilities and protect them during the execution of the work.

B. The Contractor shall examine the Architectural, Mechanical and Electrical Drawings and Specifications to familiarize himself with the type of construction, materials, and equipment to be used for all work and how it will affect the installation of his contract.

1.4 CUTTING AND PATCHING:

A. All necessary cutting, drilling and patching shall be provided by this Contractor. Structural members shall not be disturbed without prior approval of the Architect. All areas disturbed by work performed under this Contract shall be neatly repaired and refinished to the condition of adjoining surfaces in a manner suitable to the Architect.

1.5 OPERATION DURING CONSTRUCTION:

A. Mechanical equipment shall not be used during construction unless instructed by the General Contractor. The mechanical contractor is responsible for the installation and operation, service and maintenance of all new equipment during construction and prior to acceptance by the Owner of the completed project at additional costs to the GC and/or owner.

B. Warranty periods shall not commence until final acceptance by the Owner/Substantial Completion.

1.6 SAFETY REGULATIONS:

A. All Mechanical work shall be performed in compliance with all applicable governing safety regulations, including OSHA regulations. Provide safety lights, guards and signs required.

1.7 HOUSEKEEPING:

A. The Contractor shall be responsible for keeping stocks of material and equipment stored on the premises in a neat and orderly manner.

B. The Contractor shall clean and maintain his portion of the work as specified in the General Conditions.

C. The Contractor shall remove from the premises all waste material present as a result of his work.

1.8 GRAPHIC REPRESENTATION AND JOB CONDITIONS:

A. The drawings shall serve as working drawings for the general layout of the various items of equipment; are diagrammatic unless specifically dimensioned; and do not necessarily indicate every required item.

B. The Architectural drawings take precedence over the mechanical drawings in the representation of the general construction work.

C. Arrange work in a neat, well organized manner. Coordinate work with other trades involved.

1.9 GUARANTEES:

A. The Contractor shall guarantee all work performed and materials and equipment furnished under this contract, against defects in materials and workmanship for a period of one year from the Date of the Owner's Final Acceptance of the Work, or as noted in each section.

1.10 MOTORS AND CONTROLS:

A. All motors furnished under this specification shall be recognized manufacturer, of adequate capacity for the loads involved. All motors shall conform to the standards of manufacturer and performance of the National Electrical Manufacturers Association as shown in their latest publications.

1.11 PIPING IN ELECTRICAL ROOMS:

A. No piping except specifically noted otherwise will be permitted in electrical rooms. In rooms, where piping is indicated over electrical equipment, a suitable galvanized sheetmetal pan or gutter piped to the drainage system shall be provided.

END OF SECTION

SECTION 15100 - HEATING, VENTILATION AND AIR CONDITIONING

1.1 SCOPE:

A. The work included under this contract consists of providing all labor, materials, tools, transportation, services, etc., necessary to complete the installation of the heating, ventilating, and air conditioning systems and other items herein listed and as described in these specifications, as illustrated in the accompanying drawings or as directed by the Architect.

1.2 SHEET METAL:

A. Provide ductwork shown with necessary dampers. Construction of new galvanized prime grade steel sheets per ASHRAE and SMACNA Standards. Provide round or rectangular duct as indicated. Fabricate for the pressure and SMACNA seal class required.

B. Flexible duct shall be Wiremold WCK or acceptable equal maximum length shall be 8' - 0" or as noted/detailed.

C. All duct sizes shown are actual size and include liner, where required.

1.3 GRILLES, REGISTERS, INLETS AND OUTLETS:

A. All supply grilles, registers and diffusers shall be as scheduled on the drawings and shall be ADC rated.

1.4 DUCTWORK ACCESSORIES:

A. Provide single thickness turning vanes in all supply duct turns.

B. Provide duct access doors for all internal mounted equipment.

C. Provide 45° take-off fittings with volume damper for all round takeoffs to diffusers.

D. Provide dampers where shown and required. Balance and control dampers shall be opposed blade except air mixing dampers shall be parallel blade.

1.5 AIR CONDITIONING UNITS:

A. Air conditioning units shall be as scheduled. Units shall be standard catalogued products with the appropriate approval or certification by AGA, ARI and UL. Efficiencies shall conform to ASHRAE 90.1 standards.

1.6 FANS:

A. Fans with accessories shall be as scheduled and shall be AMCA rated.

1.7 VIBRATION ISOLATION:

A. Duct flexible connection shall be non-combustible, 16 ounce canvas. Piping flexible connection shall be Flexonics 401H or acceptable equal.

1.8 MISCELLANEOUS MECHANICAL EQUIPMENT:

A. Provide constant, variable volume and/or fan powered boxes and accessories as scheduled. Acceptable manufacturers are E.H. Price or acceptable equal.

1.9 CLEANING:

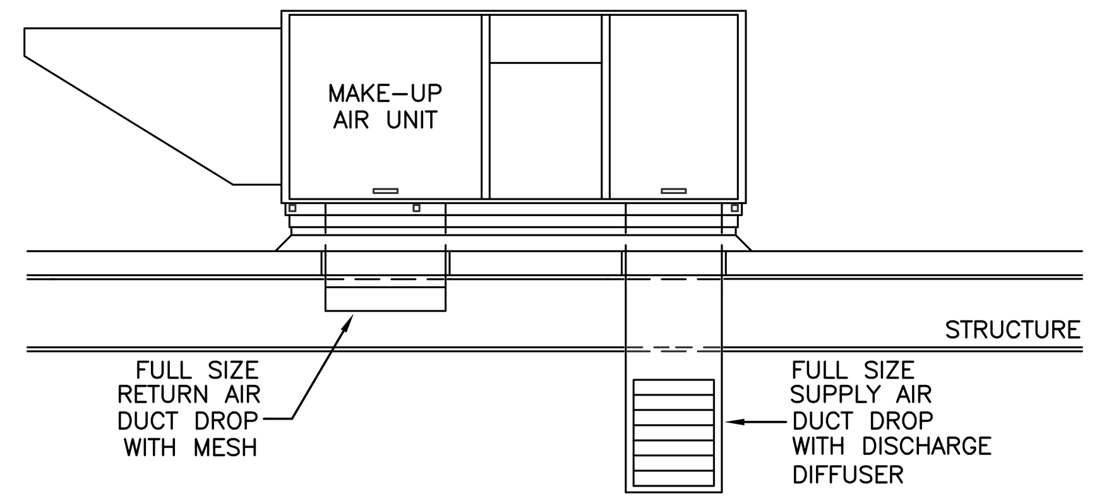
A. Clean system by operating at least three hours prior to final acceptance with temporary filters. Remove all filters and replace with clean.

B. Use precleaned precharged refrigerant tube. Clean per manufacturers recommendations.

1.10 TESTING AND ADJUSTING:

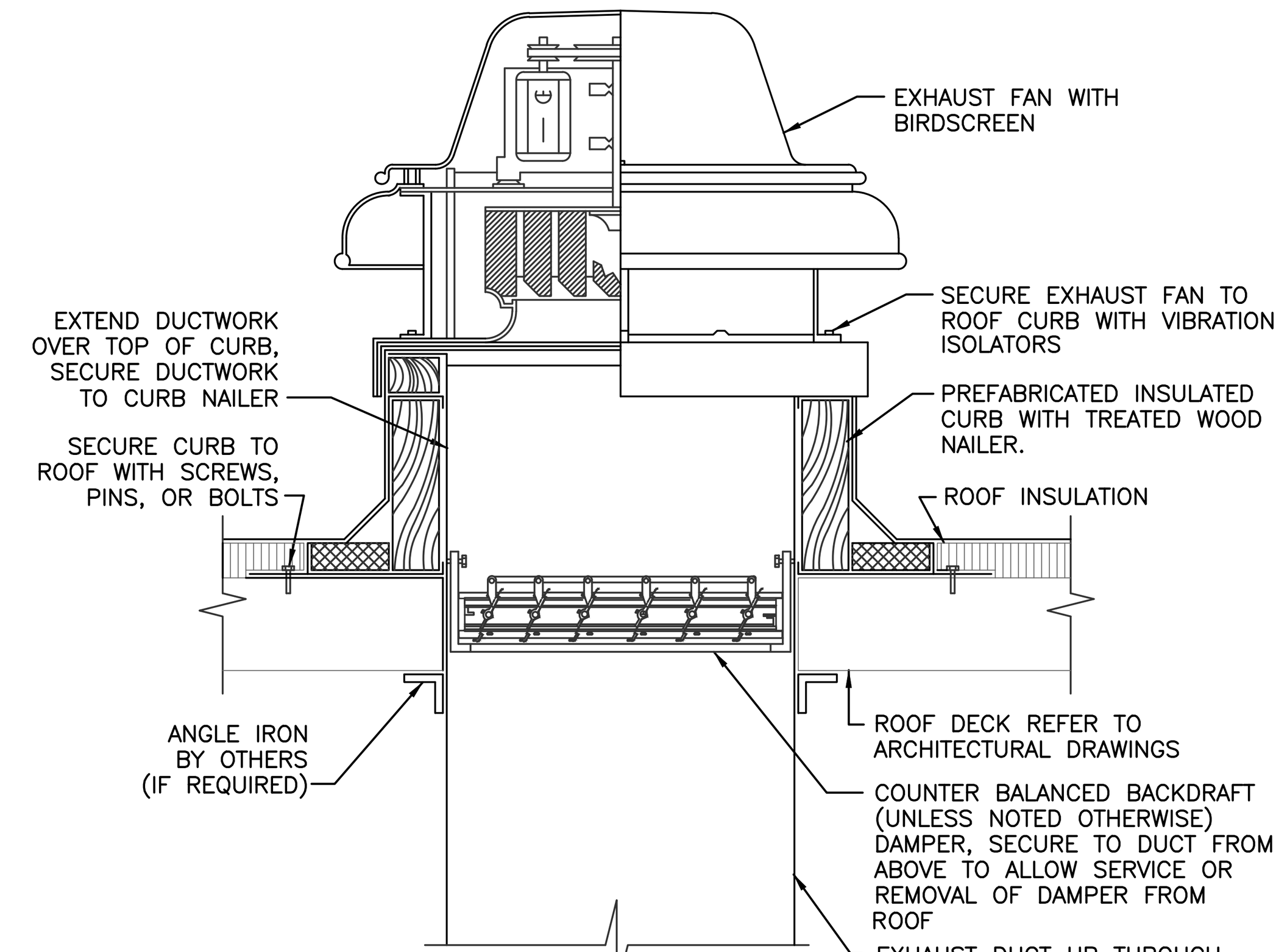
A. Contractor shall operate and test the air conditioning and ventilation systems and instruct the Owner in its operation. Perform a series of general capacity and operating tests. The tests shall demonstrate the specified capacities of various pieces of equipment.

END OF SECTION



NOTES
1. PROVIDE OPENING THROUGH ROOF AND ROOF DECK INSULATION NO LARGER THAN REQUIRED TO ALLOW DUCTS TO PASS THROUGH. DROPS TO BE FULL SIZE PER MANUFACTURER'S SUBMITTALS.

1 SHELL MAKE-UP AIR UNIT DETAIL
NO SCALE



2 DOWNBLAST EXHAUST FAN DETAIL
NO SCALE

MAKE-UP AIR UNIT - 50/50 OUTDOOR AIR HEATING AND VENTILATION (MAU-1 THRU MAU-3)
GENERAL:
THE BUILDING SHALL BE HEATED TO MAINTAIN 60° F AT +9.2° F AMBIENT TEMPERATURE BY MEANS OF ROOF MOUNTED MAKEUP AIR UNITS. THE UNITS INCLUDE MODULATING RETURN AND OUTDOOR AIR DAMPERS WHICH OPERATE BASED ON BUILDING PRESSURE. THERMOSTAT/UNIT CONTROLLER SHALL BE MOUNTED 10'-0" A.F.F. ON THE BUILDING COLUMN NEAREST TO EACH UNIT (OR AS SHOWN).

MAU OCCUPIED MODE:
WHEN THE TOGGLE SWITCH IS IN "OCCUPIED" POSITION, THE MAKEUP AIR UNIT WILL BE COMMANDED ON AND SUPPLY FAN SHALL BE ON. THE MAU WILL MODULATE HEATING AS REQUIRED TO MAINTAIN SPACE TEMPERATURE SETPOINT. .

MAU SETBACK MODE/UNOCCUPIED:
WHEN THE TOGGLE SWITCH IS IN THE SETBACK OR UNOCCUPIED POSITION AND SPACE TEMPERATURE DROPS BELOW SPACE TEMPERATURE SETPOINT (55° F), THE MAKEUP AIR UNIT WILL BE COMMANDED ON. ONCE THE SPACE TEMPERATURE SETPOINT IS SATISFIED, THE MAKEUP AIR UNIT AND SUPPLY AIR FAN WILL BE COMMANDED OFF.

ELECTRIC FIRE PUMP ROOM HEAT AND VENTILATION (EF-A, L-A & UH-1)
GENERAL:
SYSTEM SHALL CONSIST OF AN EXHAUST FAN WITH COOLING-ONLY LINE VOLTAGE THERMOSTAT, LOUVER DAMPER WITH 120V FACTORY-PROVIDED ACTUATOR, AND ELECTRIC UNIT HEATER WITH UNIT-MOUNTED THERMOSTAT. THE LOUVER SHALL BE SPRING-CLOSED/POWER-OPEN TO FAIL CLOSED UPON A LOSS OF POWER.

L-A LOUVER AND MOTORIZED DAMPER:
THE 120V MOTORIZED DAMPER SHALL BE INTERLOCKED TO OPEN THE MOTORIZED DAMPER WHEN THE EXHAUST FAN IS ENERGIZED AND CLOSE THE DAMPER WHEN THE EXHAUST FAN IS DE-ENERGIZED. INTERLOCK BY THE E.C.

EF-A EXHAUST FAN:
THE EXHAUST FAN SHALL BE CONTROLLED BY A SPACE MOUNTED COOL-ONLY LINE VOLTAGE THERMOSTAT. THE THERMOSTAT WILL ENERGIZE AND DE-ENERGIZE THE EXHAUST FAN TO MAINTAIN A TEMPERATURE OF 90°F (ADJ) IN THE ROOM. THE EXHAUST FAN SHALL BE INTERLOCKED TO OPEN THE LOUVER/DAMPER WHEN THE EXHAUST FAN IS ENERGIZED AND CLOSE THE DAMPER WHEN THE EXHAUST FAN IS DE-ENERGIZED.

UH-1 HEATING:
THE ELECTRIC UNIT HEATER SHALL BE CONTROLLED BY A HEAT-ONLY UNIT-MOUNTED THERMOSTAT. THE THERMOSTAT WILL ENERGIZE AND DE-ENERGIZE THE ELECTRIC UNIT HEATER TO MAINTAIN A MINIMUM TEMPERATURE OF 55°F (ADJ) IN THE ROOM.

OUTSIDE AIR CALCULATIONS

UNIT SERVED	OCCUPANCY CLASSIFICATION	AREA (SQ. FT.)	PEOPLE PER 1,000 SQ. FT.	FIXED SEATING QUANTITY	QUANTITY OF PEOPLE	REQUIRED OUTSIDE AIR PER PERSON	REQUIRED OUTSIDE AIR PER SQ. FT.	TOTAL REQUIRED (CFM)	NOTES
MAU-1	WAREHOUSE	107,800	---	---	---	---	0.06	6,468	A
							REQUIRED VENTILATION	TOTAL CFM	B
MAU-2	WAREHOUSE	107,800	---	---	---	---	0.06	6,468	A
							REQUIRED VENTILATION	(CFM) CFM	B
MAU-3	WAREHOUSE	107,800	---	---	---	---	0.06	6,468	A
							REQUIRED VENTILATION	REQUIRED CFM	B
MAU-4	WAREHOUSE	107,800	---	---	---	---	0.06	6,468	A
							REQUIRED VENTILATION	6,468 CFM	B

NOTES:
A. VALUES TAKEN FROM ASHRAE 62.1-2010 - VENTILATION FOR ACCEPTABLE INDOOR AIR QUALITY.
B. VENTILATION FOR EACH MAU TO BE 20% OF DESIGN SUPPLY AIR. REFER TO EQUIPMENT SCHEDULE FOR ACTUAL AMOUNT.

ROOFTOP MAKE-UP AIR HEATER SCHEDULE (NATURAL GAS HEAT)

MARK	MANUFACTURER	AREA SERVED	QUANTITY	MODEL	SUPPLY FAN				GAS HEAT EXCHANGER			ELECTRICAL			WEIGHT (LBS) W/ CURB	FIXED OUTSIDE AIR (%)	MIN. EFF	NOTES
					CFM	ESP (IN)	RPM	HP	INPUT (MBH)	OUTPUT (MBH)	TEMP RISE (°F)	MCA	MOCP	V/PH				
MAU-1	RUPP	WAREHOUSE	1	RAM-M 36	32,500	0.15	332	15.0	3,467	3,190	55 °F	25.0	50	460/3	4,500	20	90%	A - J
MAU-2	RUPP	WAREHOUSE	1	RAM-M 36	32,500	0.15	332	15.0	3,467	3,190	55 °F	25.0	50	460/3	4,500	20	90%	A - J
MAU-3	RUPP	WAREHOUSE	1	RAM-M 36	32,500	0.15	332	15.0	3,467	3,190	55 °F	25.0	50	460/3	4,500	20	90%	A - J
MAU-4	RUPP	WAREHOUSE	1	RAM-M 36	32,500	0.15	332	15.0	3,467	3,190	55 °F	25.0	50	460/3	4,500	20	90%	A - J

NOTES:

A. STARTERS FOR ALL MOTORS SHALL BE FURNISHED INTEGRAL WITH UNIT.
B. EQUIPMENT SIZED FOR (-)0 DEGREE F AMBIENT TEMPERATURE AND 55 DEGREE F INDOOR TEMPERATURE.
C. PROVIDE WITH MANUFACTURER'S STANDARD OUTSIDE AIR FILTERS.
D. PROVIDE MANUFACTURER'S STANDARD ROOF CURB WITH MINIMUM HEIGHT OF 14".
E. PROVIDE WITH REMOTE PANEL/TEMPERATURE SENSOR FOR UNIT CONTROL. INSTALL CONTROLLER ON NEAREST COLUMN OR PER PLANS AS NOTED.
F. PROVIDE WITH 3-WAY DISCHARGE AIR DIFFUSER.
G. PROVIDE WITH CURB DUCT HANGER AND FREEZESTAT.
H. PROVIDE WITH MANUFACTURER'S STANDARD MOTORIZED DISCHARGE DAMPER.
J. PROVIDE FACTORY MOUNTED GFCI OUTLET, POWERED BY OTHERS.

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SCANNELL
PROPERTIES

CERTIFICATION

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS
BUILDING A LOT 1

NW CORNER OF
NE TUDOR RD & MAIN ST
LEE'S SUMMIT, MO 64086

STATE OF MISSOURI
MATTHEW DAVID KELSO
NUMBER
PE-2016027003
PROFESSIONAL ENGINEER
4/21/2022

ISSUE DATES

PERMIT SET	04.21.22

210300

MetroAir

LSCC BLDG. #1

LEE'S SUMMIT, MO

SCALE: AS NOTED	DATE: 4/21/22	DRAWN BY: M.D.K.
APPROVED BY: JDG	DWG # M2 OF 2	
PERMIT		

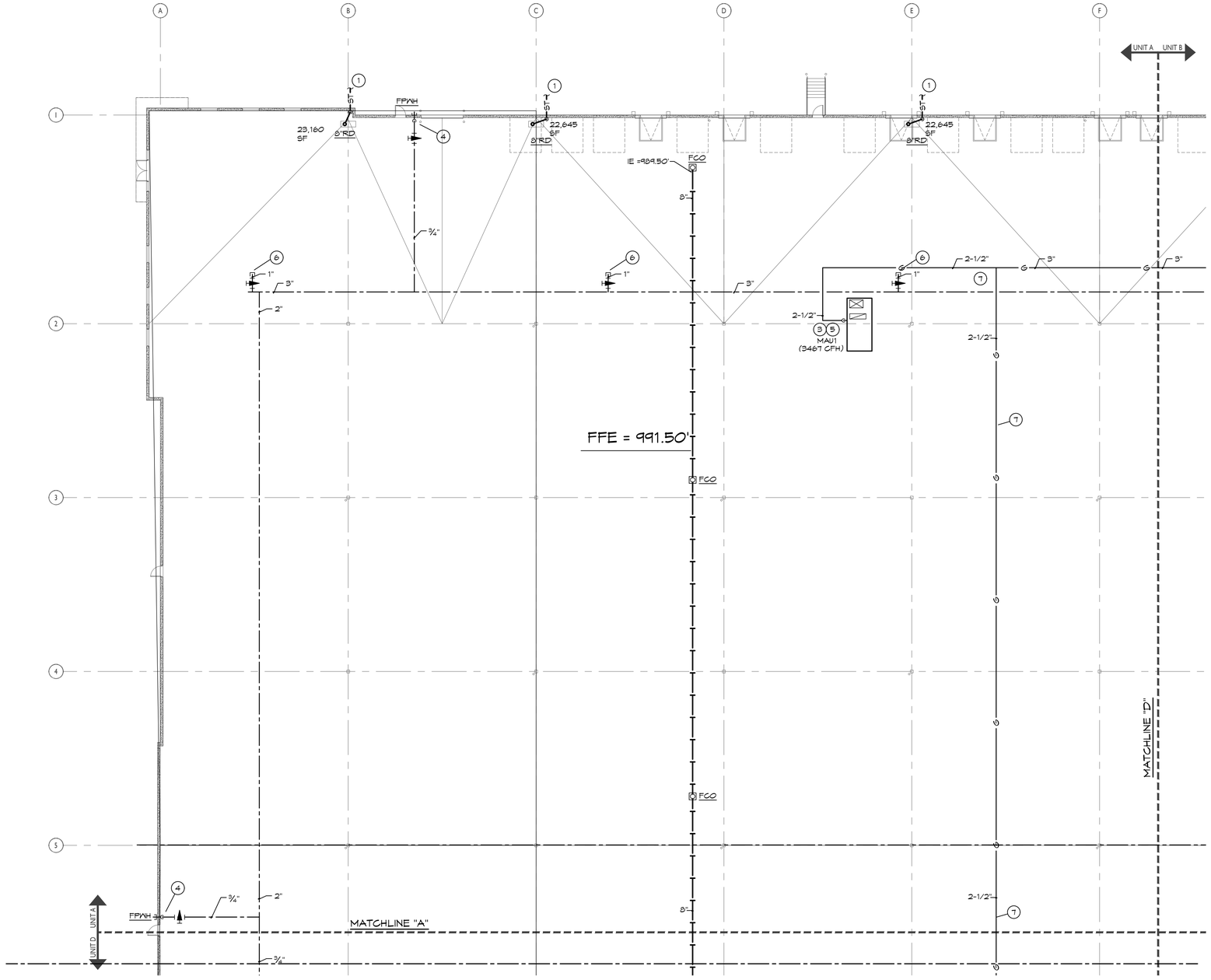
M2.1

PLUMBING GENERAL NOTES:

1. INSTALL ALL PIPE, ETC. AS HIGH AS POSSIBLE.
2. COORDINATE ALL WORK WITH OTHER TRADES AND EXISTING CONDITIONS AS REQUIRED TO PROPERLY INSTALL ALL SYSTEMS AS INTENDED, WITHIN THE CONFINES OF THE SPACES AVAILABLE, AND WITHOUT INTERFERENCES.
3. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF FIXTURES.
4. REFER TO ARCHITECTURAL & STRUCTURAL DRAWINGS FOR REQUIREMENTS FOR SUPPORTING PIPING, EQUIPMENT, ETC. FROM THE STRUCTURE. PROVIDE ADDITIONAL STEEL AS REQUIRED TO PROPERLY SUPPORT SYSTEMS FROM THE STRUCTURE.
5. NO PIPING SHALL BE ROUTED OVER THE TOP OF ELECTRICAL PANELS.

PLUMBING SYMBOLS

- SOIL AND WASTE PIPING BELOW FLOOR/GRADE
- SOIL AND WASTE PIPING ABOVE FLOOR/GRADE
- V — SANITARY VENT PIPING ABOVE GRADE
- V — SANITARY VENT PIPING BELOW GRADE
- DOMESTIC COLD WATER PIPING
- G — GAS PIPING
- FM — FORCE MAIN PIPING BELOW FLOOR/GRADE
- PIPING TURNING DOWN
- PIPING TURNING UP
- TEE TOP CONNECTION
- UNION
- FCO — FLOOR CLEAN OUT
- WCO — WALL CLEAN OUT
- GCO — GRADE CLEAN OUT
- VALVE
- PRESSURE REGULATOR
- CONNECT TO EXISTING
- I.E. — INVERT ELEVATION OF PIPE
- MATCH MARKS ON PLUMBING RISER DIAGRAM



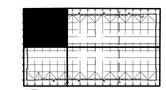
PLUMBING PLAN NOTES:

1. REFER TO CIVIL FOR 8" STORM PIPE. MAINTAIN A MIN. OF 24" COVER.
2. REFER TO CIVIL FOR 8" WASTE PIPE. MAINTAIN A MIN. OF 30" COVER.
3. GAS PIPE UP THROUGH ROOF TO MAU CONNECTION. SEAL PENETRATION WEATHER TIGHT.
4. INSTALL FREEZE PROOF WALL HYDRANT 18" ABOVE GRADE.
5. CONNECT GAS PIPING TO EQUIPMENT AS DETAILED.
6. CAP 1" WATER PIPE WITH SHUT-OFF VALVE FOR FUTURE CONNECTION.
7. GAS PIPING BELOW ROOF SUPPORT AS REQUIRED.
8. GAS PIPING ON ROOF. SUPPORT AS REQUIRED AND DETAILED.

NORTH

PARTIAL PLUMBING FLOOR PLAN "UNIT A"

SCALE: 1/16" = 1'-0" FFE = 991.50'



NORTH

KEY PLAN

SCALE: NTS

CENTRAL
PLUMBING, HEATING & AIR CONDITIONING, INC.
201 East Walnut
Cleveland, MO 64734
816-942-6355

BC ENGINEERS INCORPORATED
5720 Reeder Shawnee, KS 66203 (913)262-1772

CURRAN
ARCHITECTURE
5719 LAWTON LOOP E. DR. #212
INDIANAPOLIS, IN 46216
O :: 317 . 288 . 0681
F :: 317 . 288 . 0753

SCANNELL PROPERTIES

4/26/2022

STATE OF MISSOURI REGISTERED ENGINEER
ERIK B. KNUDSEN
NUMBER PE-2004026504

LEE'S SUMMIT LOGISTICS BUILDING A LOT 1

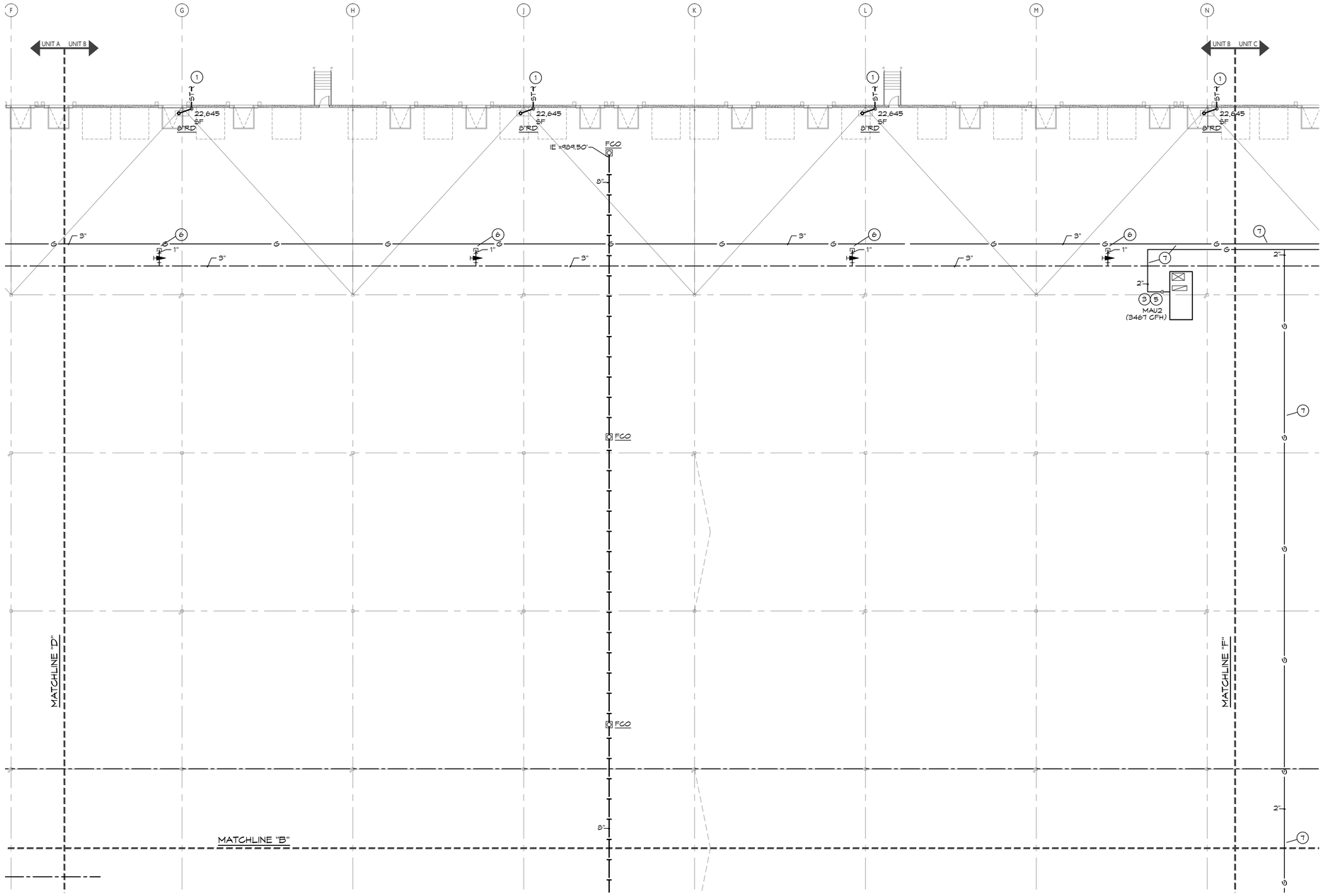
NW CORNER OF
NE TUDOR RD & MAIN ST
LEE'S SUMMIT, MO 64086

PERMIT SET	02.18.22

210300

PLUMBING PLAN
AREA A

P100



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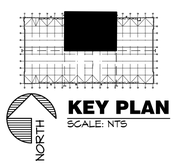
8. GAS PIPING ON ROOF. SUPPORT AS REQUIRED AND DETAILED.

NORTH

PARTIAL PLUMBING FLOOR PLAN "UNIT B"

SCALE: 1/16" = 1'-0" FFE = 991.50'



NORTH

KEY PLAN

SCALE: NTS

CENTRAL

PLUMBING, HEATING & AIR CONDITIONING, INC.

201 East Walnut
Cleveland, MO 64734
816-942-6355

BC PROJECT #22208
MISSOURI PE COA #2009003629

BC ENGINEERS INCORPORATED

5720 Reeder Shawnee, KS 66203 (913)262-1772

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ARCHITECTURE

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SCANNELL PROPERTIES

4/26/2022

STATE OF MISSOURI
REGISTERED ENGINEER
ERIK B. KNUDSEN
NUMBER
PE-2004026504

LEE'S SUMMIT LOGISTICS
BUILDING A LOT 1

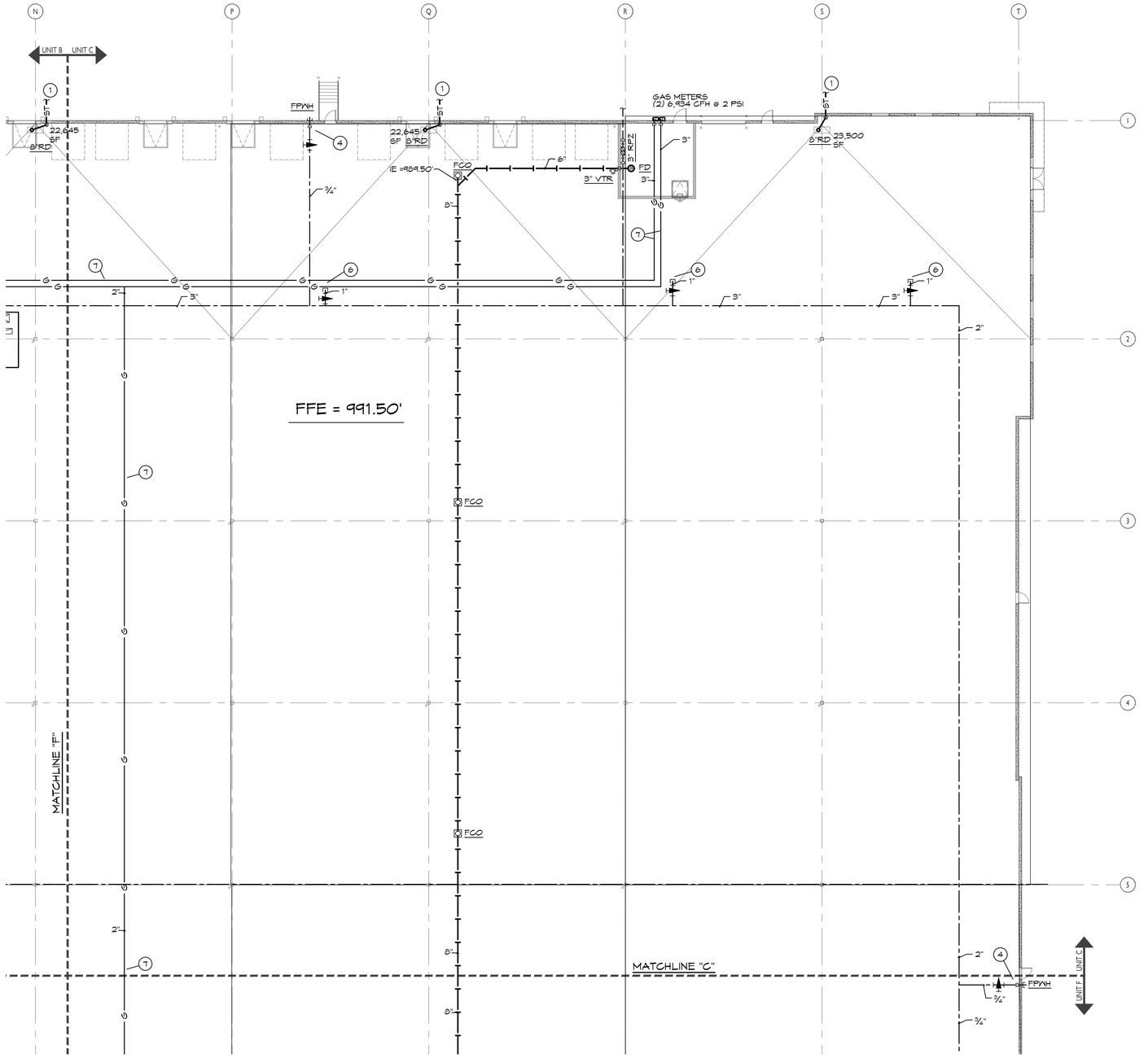
NW CORNER OF
NE TUDOR RD & MAIN ST
LEE'S SUMMIT, MO 64086

PERMIT SET	02.18.22

210300

PLUMBING PLAN
AREA B

P101



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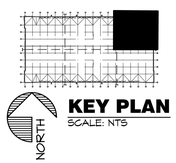
8. GAS PIPING ON ROOF. SUPPORT AS REQUIRED AND DETAILED.

NORTH

PARTIAL PLUMBING FLOOR PLAN "UNIT C"

SCALE: 1/16" = 1'-0" FFE = 991.50'



NORTH

KEY PLAN

SCALE: NTS

CENTRAL

PLUMBING, HEATING & AIR CONDITIONING, INC.

201 East Walnut
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816-942-6355

BC PROJECT #22208
MISSOURI PE COA #2009003629

BC ENGINEERS INCORPORATED

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SCANNELL PROPERTIES

4/26/2022

STATE OF MISSOURI
ERIK B. KNUDSEN
NUMBER PE-2004026504
REGISTERED ENGINEER

LEE'S SUMMIT LOGISTICS BUILDING A LOT 1

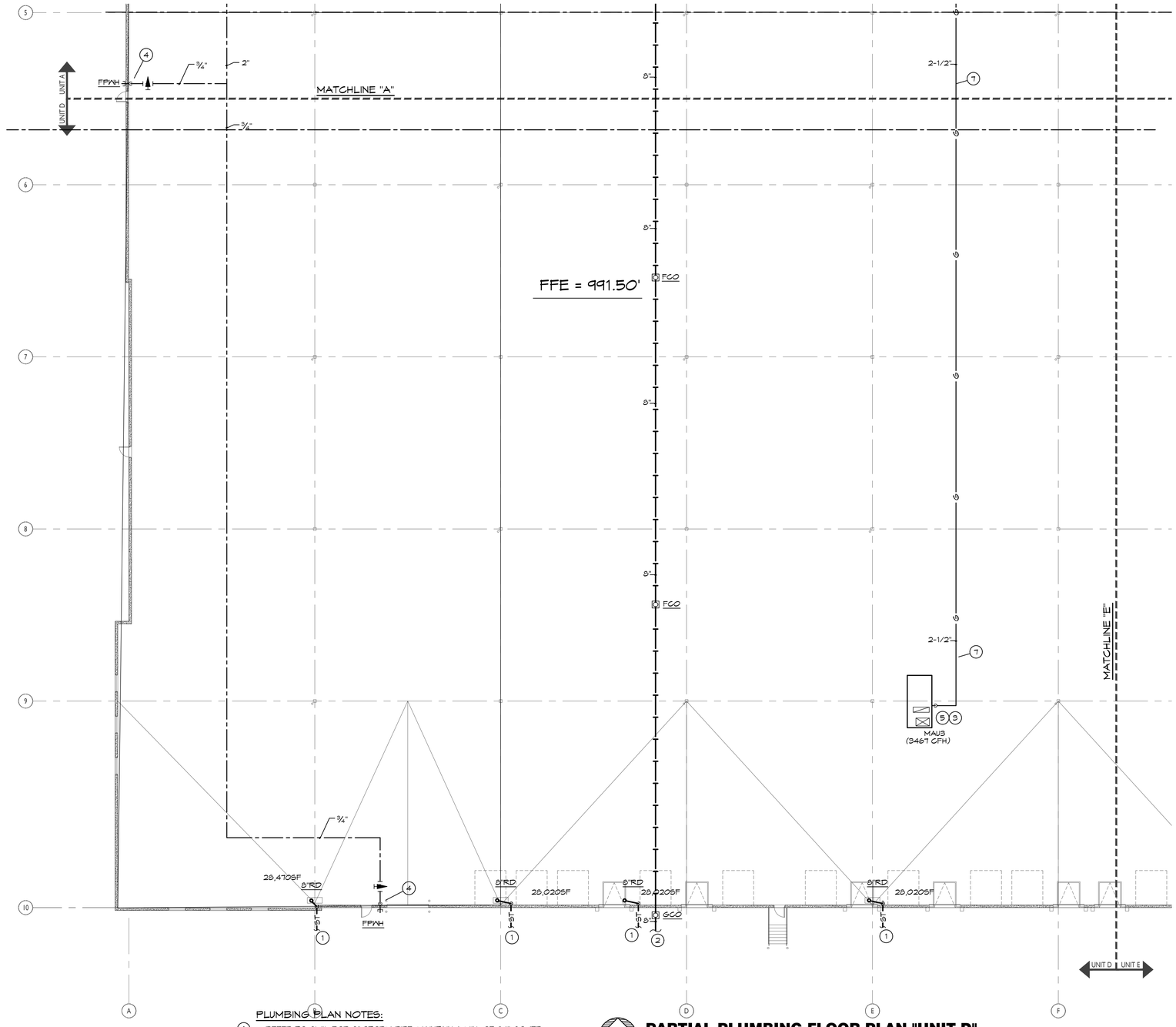
NW CORNER OF
NE TUDOR RD & MAIN ST
LEE'S SUMMIT, MO 64086

PERMIT SET	02.18.22

210300

PLUMBING PLAN
AREA C

P102



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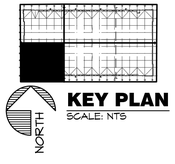
5. CONNECT GAS PIPING TO EQUIPMENT AS DETAILED.
6. CAP 1" WATER PIPE WITH SHUT-OFF VALVE FOR FUTURE CONNECTION.
7. GAS PIPING BELOW ROOF SUPPORT AS REQUIRED.
8. GAS PIPING ON ROOF. SUPPORT AS REQUIRED AND DETAILED.

NORTH

PARTIAL PLUMBING FLOOR PLAN "UNIT D"

SCALE: 1/16" = 1'-0" FFE = 991.50'



KEY PLAN

SCALE: NTS

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SCANNELL PROPERTIES

4/26/2022

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NUMBER PE-2004026504

LEE'S SUMMIT LOGISTICS BUILDING A LOT 1

NW CORNER OF
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LEE'S SUMMIT, MO 64086

PERMIT SET	02.18.22

210300

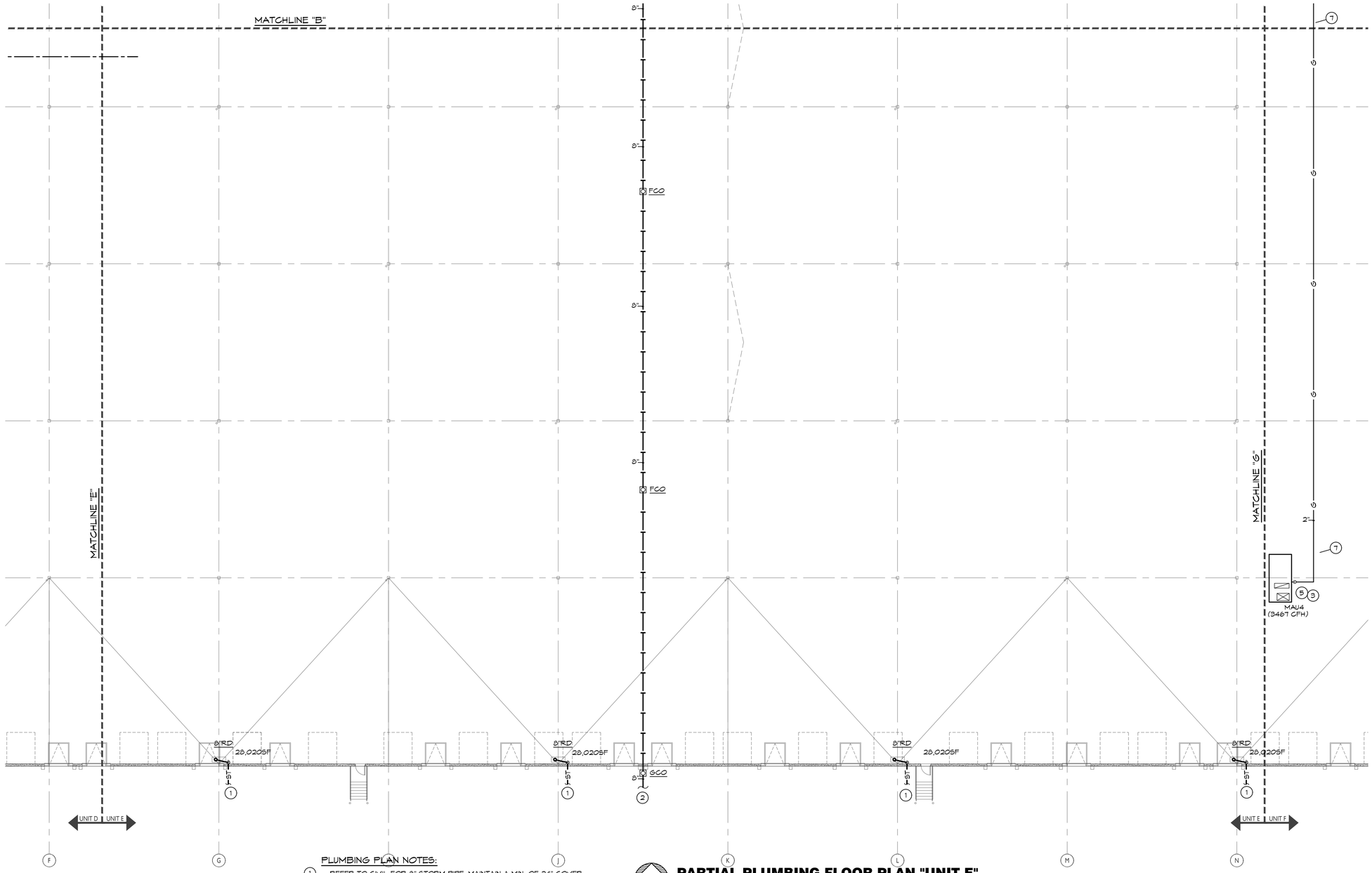
PLUMBING PLAN
AREA D

P103

CENTRAL
PLUMBING, HEATING & AIR CONDITIONING, INC.
201 East Walnut
Cleveland, MO 64734
816-942-6355

BC PROJECT #22208
MISSOURI PE COA #2009003629

BC ENGINEERS INCORPORATED
5720 Reeder Shawnee, KS 66203 (913)262-1772



PLUMBING PLAN NOTES:

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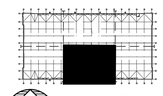
NORTH

PARTIAL PLUMBING FLOOR PLAN "UNIT E"

SCALE: 1/16" = 1'-0" FFE = 991.50'



NORTH

KEY PLAN

SCALE: NTS

CURRAN
ARCHITECTURE
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INDIANAPOLIS, IN 46216
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SCANNELL
PROPERTIES

4/26/2022

STATE OF MISSOURI
REGISTERED ENGINEER
ERIK B. KNUDSEN
NUMBER
PE-2004026504

LEE'S SUMMIT LOGISTICS
BUILDING A LOT 1

NW CORNER OF
NE TUDOR RD & MAIN ST
LEE'S SUMMIT, MO 64086

PERMIT SET	02.18.22

210300

PLUMBING PLAN
AREA E

P104

CENTRAL
PLUMBING, HEATING & AIR CONDITIONING, INC.
201 East Walnut
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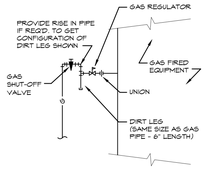
BC PROJECT #22208
MISSOURI PE COA #2009003629

BC ENGINEERS INCORPORATED
5720 Reeder Shawnee, KS 66203 (913)262-1772



GAS PRESSURE REGULATORS FOR ROOFTOP UNITS (RTU) AND MAKE-UP AIR UNITS (MAU) SHALL BE SENSUS #143-50-2, 2 PSI INLET / 7" PC OUTLET PRESSURE WITH THE ORIFICE & SPRING SIZE AS RECOMMENDED BY THE MANUFACTURER.

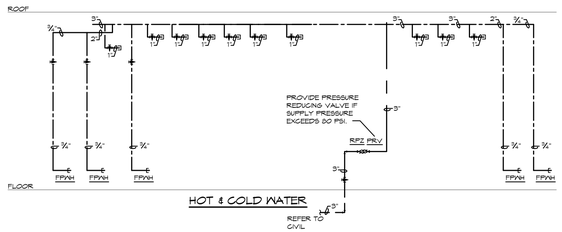
GAS CONNECTION DETAIL

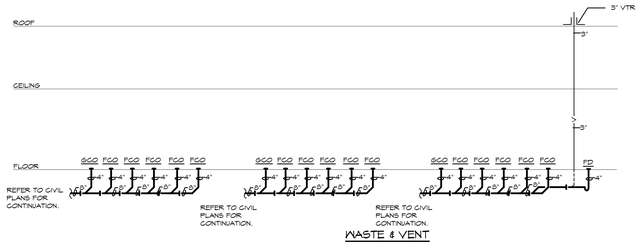
SCALE: NONE

FOR ROOFTOP UNITS, MAKE-UP AIR UNITS, ETC. WITH 2 PSI GAS PRESSURE

PLUMBING FIXTURE SCHEDULE: (OR EQUAL)

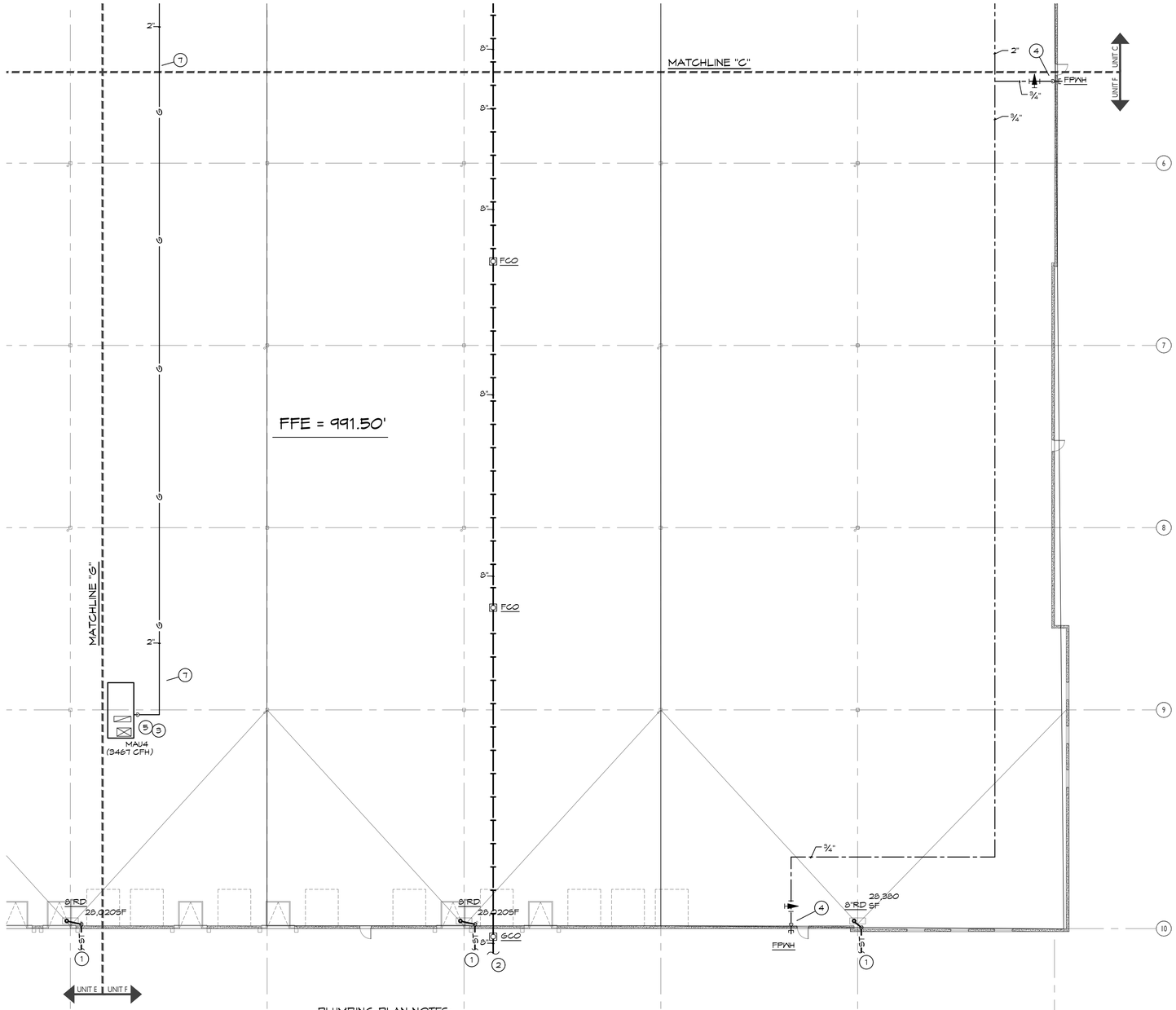
FD	FLOOR DRAIN, JR SMITH, #2005-A, CAST IRON FLOOR DRAIN WITH ADJUSTABLE TOP, 6" NIKALOY STRAINER. PROVIDE WITH #3612 QUAD CLOSE TRAP SEAL DEVICE.
FCO	VINYL TILE FLOOR: JR SMITH #4140, OR EQUAL. QUARRY TILE FLOOR: JR SMITH #4200, OR EQUAL. CARPETED FLOOR: JR SMITH #4020-Y, OR EQUAL. UNFINISHED FLOOR: JR SMITH #4020, OR EQUAL. WAREHOUSE FLOOR: JR SMITH #4100, OR EQUAL.
FPWH	FREEZEPROOF WALL HYDRANT, JR SMITH #5609, 3/4" SIZE, NICKEL-BRONZE FACE, KEY OPERATED, INTEGRAL VACUUM BREAKER.
RPZ	REDUCED ZONE PRESSURE BACKFLOW PREVENTOR: WATTS #LF009, LEAD FREE BRONZE BODY CONSTRUCTION, TAD, IN-LINE INDEPENDENT CHECK VALVES, REPLACEABLE CHECK SEATS WITH AN INTERMEDIATE RELIEF VALVE, AND BALL VALVE TEST COCKS.





PLUMBING RISER DIAGRAMS

SCALE: NONE

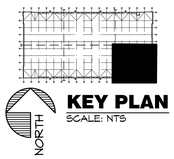


PLUMBING PLAN NOTES:

1. REFER TO CIVIL FOR 8" STORM PIPE. MAINTAIN A MIN. OF 24" COVER.
2. REFER TO CIVIL FOR 8" WASTE PIPE. MAINTAIN A MIN OF 30" COVER.
3. GAS PIPE UP THROUGH ROOF TO MAU CONNECTION. SEAL PENETRATION WEATHER TIGHT.
4. INSTALL FREEZE PROOF WALL HYDRANT 18" ABOVE GRADE.
5. CONNECT GAS PIPING TO EQUIPMENT AS DETAILED.
6. CAP 1" WATER PIPE WITH SHUT-OFF VALVE FOR FUTURE CONNECTION.
7. GAS PIPING BELOW ROOF SUPPORT AS REQUIRED.
8. GAS PIPING ON ROOF. SUPPORT AS REQUIRED AND DETAILED.

PARTIAL PLUMBING FLOOR PLAN "UNIT F"

SCALE: 1/16" = 1'-0" FFE = 991.50'



KEY PLAN

SCALE: NTS

CURRAN
ARCHITECTURE
5719 LAWTON LOOP E. DR. #212
INDIANAPOLIS, IN 46216
O :: 317 . 288 . 0681
F :: 317 . 288 . 0753

SCANNELL PROPERTIES

4/28/2022

REGISTERED PROFESSIONAL ENGINEER
STATE OF MISSOURI
ERIK B. KNUDSEN
NUMBER PE-2004026504

LEE'S SUMMIT LOGISTICS BUILDING A LOT 1

NW CORNER OF
NE TUDOR RD & MAIN ST
LEE'S SUMMIT, MO 64086

PERMIT SET	02.18.22

210300

PLUMBING PLAN & RISERS AREA F

P105

CENTRAL
PLUMBING, HEATING & AIR CONDITIONING, INC.
201 East Walnut
Cleveland, MO 64734
816-942-6355

BC PROJECT #22208
MISSOURI PE COA #2009003629

BC ENGINEERS INCORPORATED
5720 Reeder Shawnee, KS 66203 (913)262-1772

PLUMBING SPECIFICATIONS

1. GENERAL PROVISIONS:
   A. PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, NECESSARY FOR THE COMPLETE INSTALLATION OF THE PLUMBING AND MECHANICAL SYSTEMS OUTLINED.
   B. OBTAIN ALL PERMITS, FEES, LICENSES, INSPECTIONS, AND CERTIFICATES OF COMPLIANCE OR APPROVAL AS REQUIRED BY THE AUTHORITIES.
   C. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE LAWS, CODES AND REGULATIONS OF THE GOVERNMENTAL BODIES HAVING JURISDICTION OVER THE SITE.
   D. ALL TESTING REQUIRED BY AUTHORITIES SHALL BE CONSIDERED PART OF THIS WORK.
   E. DURING CONSTRUCTION, ALL FIXTURES, EQUIPMENT, PIPE, DUCT, ETC. SHALL BE COVERED, PLUGGED, OR CAPPED AS REQUIRED TO KEEP CLEAN AND UNDAMAGED. ALL DAMAGED ITEMS SHALL BE RESTORED TO ORIGINAL CONDITION OR REPLACED. ALL PROTECTIVE COVERING SHALL BE REMOVED BEFORE FINAL ACCEPTANCE
   F. PROVIDE ALL NECESSARY CUTTING AND PATCHING OF WALLS, FLOORS, CEILINGS, AND ROOFS AS NECESSARY. PATCH AROUND ALL OPENINGS SHALL MATCH ADJACENT AREA. COORDINATE ALL ROOFING WORK WITH OWNER OR RESPONSIBLE PARTY, SO THAT THE EXISTING ROOFING WARRANTY WILL BE MAINTAINED.
   G. CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIALS AGAINST DEFECTS FOR A PERIOD OF ONE YEAR FROM FINAL ACCEPTANCE.
2. OPERATION AND MAINTENANCE MANUALS:
   A. DURING THE COURSE OF CONSTRUCTION, COLLECT AND COMPILE OPERATING INSTRUCTIONS, WIRING DIAGRAMS, CATALOG CUTS, LUBRICATION AND PREVENTIVE MAINTENANCE INSTRUCTIONS, PARTS LISTS, ETC. FOR ALL EQUIPMENT FURNISHED UNDER THIS CONTRACT.
   B. ALL LITERATURE AND INSTRUCTIONS SHIPPED WITH THE EQUIPMENT SHALL BE SAVED FOR INCLUSION IN THE OPERATION AND MAINTENANCE MANUALS.
   C. ALL LITERATURE LISTED ABOVE AND ALL PAPERS LISTING WARRANTIES, ETC. SHALL BE BOUND IN A 3-RING BINDER AND LABELED WITH THE PROJECT NAME, ADDRESS, ARCHITECT, ENGINEER, CONTRACTORS, ETC.
3. MANUFACTURERS:
   A. MANUFACTURERS, MODEL NUMBERS, ETC. INDICATED OR SCHEDULED ON THE DRAWINGS SHALL BE INTERPRETED AS HAVING ESTABLISHED A STANDARD OF QUALITY AND SHALL NOT BE CONSTRUED AS LIMITING COMPETITION. ARTICLES, FIXTURES, ETC. OF EQUAL QUALITY BY MANUFACTURERS SHALL BE ACCEPTABLE, SUBJECT TO STRUCTURAL AND ELECTRICAL CONSTRAINTS OF THE PROJECT DESIGN, UNLESS NOTED OTHERWISE.
4. TESTING, BALANCING, AND CLEANING:
   A. ALL PIPING SHALL BE TESTED FOR LEAKS BEFORE BEING CONCEALED IN WALL CONSTRUCTION OR COVERED WITH INSULATION.
   B. SEWER AND VENT PIPING SHALL BE HYDROSTATICALLY TESTED WITH NO LESS THAN 10 FEET OF HEAD FOR A PERIOD OF NOT LESS THAN 15 MINUTES, PER THE LOCAL PLUMBING CODE, WITH NO LEAKS.
   C. DOMESTIC WATER PIPING SHALL BE HYDROSTATICALLY TESTED AT A PRESSURE OF NOT LESS THAN 1-1/2 TIMES THE OPERATING PRESSURE, BUT NOT LESS THAN 60 PSI, FOR A PERIOD OF NOT LESS THAN 2 HOURS, WITH NO LEAKS.
   D. NATURAL GAS PIPING SHALL BE PNEUMATICALLY TESTED AT A PRESSURE OF NOT LESS THAN 1-1/2 TIMES THE OPERATING PRESSURE, BUT NOT LESS THAN 50 PSI, FOR A PERIOD OF NOT LESS THAN 2 HOURS, WITH NO LEAKS.
   E. BEFORE DOMESTIC WATER PIPING IS PLACED IN SERVICE, ALL DOMESTIC WATER DISTRIBUTION SYSTEMS, INCLUDING THOSE FOR COLD WATER AND HOT WATER SYSTEMS, SHALL BE FLUSHED, STERILIZED AND CHLORINATED IN ACCORDANCE WITH HEALTH DEPARTMENT REGULATIONS. THE SYSTEMS SHALL BE THOROUGHLY FLUSHED OF ALL DIRT AND FOREIGN MATTER, THEN FILLED WITH WATER TREATED WITH 50 PPM OF CHLORINE. DURING THE FILLING PROCESS, VALVES AND FAUCETS SHALL BE OPENED SEVERAL TIMES TO ASSURE TREATMENT OF THE ENTIRE SYSTEM. THE TREATED WATER SHALL BE LEFT IN THE SYSTEM FOR 24 HOURS AFTER WHICH TIME THE SYSTEM SHALL BE FLUSHED; IF THE RESIDUAL CHLORINE IS NOT LESS THAN 10 PPM, THE FLUSHING SHALL BE REPEATED. AFTER STERILIZATION, SAMPLES OF WATER IN THE SYSTEM SHALL BE APPROVED BY THE BOARD OF HEALTH.
5. PLUMBING:
   A. PROVIDE AN APPROVED WATER HAMMER ARRESTOR FOR EACH PLUMBING FIXTURE SUPPLY AS REQUIRED BY FIXTURE MANUFACTURER.
   B. ALL EXPOSED WASTE PIPE SHALL BE CHROME PLATED BRASS PIPE, NO FERROUS PIPE.
   C. PROVIDE CLEANOUTS AT EACH CHANGE OF DIRECTION AND AT 100 FOOT INTERVALS IN STRAIGHT RUNS.
   D. PROVIDE ACCESS PANELS FOR ALL CONCEALED VALVES AND TRAPS.
   E. CLEANOUTS:
      1) VINYL TILE FLOOR: JR SMITH #4140, OR EQUAL.
      2) QUARRY TILE FLOOR: JR SMITH #4200, OR EQUAL.
      3) CARPETED FLOOR: JR SMITH #4020-Y, OR EQUAL.
      4) UNFINISHED FLOOR: JR SMITH #4020, OR EQUAL.
      5) WALL: JR SMITH #4472, OR EQUAL, 24" ABOVE THE FLOOR.
      6) WAREHOUSE FLOORS/FORK TRUCK AREAS: JR SMITH #4100, OR EQUAL, WITH HEAVY DUTY CAST IRON BODY AND ROUND ADJUSTABLE SCORIATED EXTRA HEAVY DUTY NICKEL BRONZE TOP.
      7) GRADE: JR SMITH #4258, OR EQUAL, WITH HEAVY DUTY CAST IRON BODY AND COVER.
   F. PROVIDE DIELECTRIC UNIONS WITH APPROPRIATE END CONNECTIONS TO MATCH THE PIPE SYSTEM IN WHICH INSTALLED (SCREWED, SOLDERED, OR FLANGED). PROVIDE DIELECTRIC UNIONS ON ALL PIPING CONNECTIONS TO HOT WATER HEATERS AND EXPANSION TANKS.
   G. WATER HEATERS:
      1) EVERY WATER HEATER SHALL HAVE AN APPROVED MEANS INSTALLED ON THE COLD WATER SUPPLY LINE ABOVE THE EQUIPMENT TO PREVENT SIPHONING OF A STORAGE WATER HEATER OR TANK.
      2) BOTTOM FED WATER HEATERS AND TANKS CONNECT TO WATER HEATERS SHALL HAVE A VACUUM RELIEF VALVE INSTALLED, ANSI Z21.22.
      3) STORAGE HEATERS OPERATING ABOVE ATMOSPHERIC PRESSURE SHALL HAVE AN APPROVED PRESSURE RELIEF VALVE AND/OR TEMPERATURE RELIEF VALVE.
   H. ALL SEWER PIPING LOCATED INSIDE THE BUILDING SHALL BE INSTALLED WITH THE FOLLOWING SLOPES.
      1) INSTALL 2-1/2" AND SMALLER PIPE AT 1/4" PER FOOT FALL.
      2) INSTALL 3" - 6" PIPE AT 1/8" PER FOOT FALL.
      3) INSTALL 8" AND LARGER PIPE AT 1/16" PER FOOT FALL.
6. PIPING:
   A. DOMESTIC COLD, HOT, AND HOT WATER RECIRCULATING (ABOVEGROUND).
      1) TYPE L HARD DRAWN COPPER TUBING, ASTM B-88.
         a) WROUGHT COPPER SOLDERED FITTINGS, ASTM B75 ALLOY C12200, ANSI B16.22, MSS SP-104.
         b) MECHANICAL PRESS COPPER FITTINGS FOR USE IN PLUMBING OR MECHANICAL APPLICATIONS, ASME B16.22, ASME B16.51, or ASME B16.18. MECHANICAL PRESS COPPER FITTINGS SHALL CONFORM TO IAPMO PS-117 OR ASME B16.51
      2) PEX, HIGH-DENSITY CROSS-LINKED POLYETHYLENE TUBING SHALL BE MANUFACTURED TO THE REQUIREMENTS OF ASTM F876 AND MEET THE STANDARD GRADE HYDROSTATIC PRESSURE RATINGS FROM PLASTIC PIPE INSTITUTE IN ACCORDANCE WITH TR-4/03. (MUST BE INSTALLED PER THE MANUFACTURERS REQUIREMENTS FOR PLENUM USE)
         a) PEX-A AND PEX-B MEETING ANSI/NSF61 AND ANSI/NSF372 STANDARDS FOR POTABLE WATER SAFETY AND LEAD-FREE STANDARDS AND MUST BE MARKED WITH "PX-S", "NSF-61-S" OR OTHER NSF-APPROVED MARKING. ASTM F2023 FOR USE WITH CHLORINATED WATER. (MUST BE INSTALLED PER THE MANUFACTURERS REQUIREMENTS FOR PLENUM USE)
         b) PEX MECHANICAL, CRIMP/INSERT OR EXPANSION FITTINGS INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. PIPE SIZES GIVEN ON THE DRAWINGS ARE NOMINAL COPPER PIPE SIZE. INCREASE PEX PIPING SIZE TO EQUAL OR EXCEED COPPER PIPE INSIDE DIAMETER FOR SUPPLY MAINS. (MUST BE INSTALLED PER THE MANUFACTURERS REQUIREMENTS FOR PLENUM USE)
      3) VALVES:
         a) TO BE INSTALLED ON THE FIXTURE SUPPLY TO EACH PLUMBING FIXTURE.
         b) TO BE INSTALLED ON THE WATER SUPPLY SIDE TO EACH APPLIANCE OR MECHANICAL EQUIPMENT.
         c) TYPES:
            1. GATE VALVE: JOMAR T/S-3015 OR EQUAL. LEAD-FREE NSF 61, ANSI B1.20.1.
            2. GLOBE VALVE: JOMAR T-100 OR EQUAL.
            3. BALL VALVE: JOMAR LP1100PXP OR EQUAL COMPACT LEAD FREE BRASS BALL VALVE. UL842, CSA 3371-12 & 3371-12, FM, CALIFORNIA CODE AB1953, NSF61 ANNEX G APPROVED.
            4. BALL VALVE: JOMAR T-100NE OR EQUAL. UL842, FM, CSA, NSF 61-8, MSS SP-110
   B. DOMESTIC COLD, AND HOT WATER (UNDERGROUND).
      1) TYPE L HARD DRAWN COPPER TUBING, ASTM B-88.
         a) WROUGHT COPPER SOLDERED FITTINGS, ASTM B75 ALLOY C12200, ANSI B16.22, MSS SP-104.
         b) MECHANICAL PRESS COPPER FITTINGS FOR USE IN PLUMBING OR MECHANICAL APPLICATIONS, ASME B16.22, ASME B16.51, or ASME B16.18. MECHANICAL PRESS COPPER FITTINGS SHALL CONFORM TO IAPMO PS-117 OR ASME B16.51.
      2) PEX, HIGH-DENSITY CROSS-LINKED POLYETHYLENE TUBING SHALL BE MANUFACTURED TO THE REQUIREMENTS OF ASTM F876 AND MEET THE STANDARD GRADE HYDROSTATIC PRESSURE RATINGS FROM PLASTIC PIPE INSTITUTE IN ACCORDANCE WITH TR-4/03.
         a) PEX-A AND PEX-B MEETING ANSI/NSF61 AND ANSI/NSF372 STANDARDS FOR POTABLE WATER SAFETY AND LEAD-FREE STANDARDS AND MUST BE MARKED WITH "PX-S", "NSF-61-S" OR OTHER NSF-APPROVED MARKING. ASTM F2023 FOR USE WITH CHLORINATED WATER.
         b) PEX MECHANICAL, CRIMP/INSERT OR EXPANSION FITTINGS INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. PIPE SIZES GIVEN ON THE DRAWINGS ARE NOMINAL COPPER PIPE SIZE. INCREASE PEX PIPING SIZE TO EQUAL OR EXCEED COPPER PIPE INSIDE DIAMETER FOR SUPPLY MAINS.
         c) HDPE, PIGMENTED BLUE THROUGHOUT, CTS SIZES 1"-2" AWWA C901 4710 DR9 PC250 IPS SIZES 2"-3", AWWA C901 4710 DR11 PC200.
   C. DOMESTIC WATER SERVICE, 1"-3"
      1) TYPE K SOFT DRAWN COPPER TUBING, ASTM B-88.
         a) Cast Copper Alloy Fittings for Flared Copper Tube, ASME/ANSI B16.26:
      2) HDPE, PIGMENTED BLUE THROUGHOUT, CTS SIZES 1"-2" AWWA C901 4710 DR9 PC250 IPS SIZES 2"-3", AWWA C901 4710 DR11 PC200 MATERIAL AND INSTALLATION MUST CONFORM TO WATER DEPARTMENT REQUIREMENTS.
   D. LEAD CONTENT OF WATER SUPPLY PIPE AND FITTINGS:
      1) PIPE AND PIPE FITTINGS, INCLUDING VALVES AND FAUCETS, UTILIZED IN THE WATER SUPPLY SYSTEM SHALL NOT HAVE MORE THAN 0% LEAD CONTENT.
      2) PIPE, PIPE FITTINGS, JOINTS, VALVES, FAUCETS, AND FIXTURE FITINGS UTILIZED TO SUPPLY WATER FOR DRINKING OR COOKING PURPOSES SHALL COMPLY WITH NSF 372 AND SHALL HAVE A WEIGHTED AVERAGE LEAD CONTENT OF 0.25% OR LESS.

PLUMBING SPECIFICATIONS (CONTINUED)

   E. STORM SEWER, SANITARY SEWER, GREASE WASTE, SAND OIL WASTE, AND VENTS. (UNDERGROUND, INTERIOR TO THE BUILDING).
      1) ABS SCHEDULE 40 CELLULAR CORE (FOAM CORE) PIPE AND DWV FITTING SYSTEM:(ASTM F1488) PIPE AND FITTINGS SHALL BE MANUFACTURED FROM ABS COMPOUND WITH A CELL CLASS OF 42222 FOR PIPE AND 32222 FOR FITTINGS AS PER ASTM D 3965 AND CONFORM WITH NATIONAL SANITATION FOUNDATION (NSF) STANDARD 14. PIPE SHALL BE IRON PIPE SIZE (IPS) CONFORMING TO ASTM F 628 FITTINGS SHALL CONFORM TO ASTM D 2661. SOLVENT CEMENTS SHALL CONFORM TO ASTM D 2235.
      2) PVC SCHEDULE 40 CELLULAR CORE (FOAM CORE) PIPE AND DWV FITTING SYSTEM:(ASTM F1488) PIPE AND FITTINGS SHALL BE MANUFACTURED FROM PVC COMPOUND WITH A CELL CLASS OF 11432 PER ASTM D 4396 FOR PIPE AND 12454 PER ASTM D 1784 FOR FITTINGS AND CONFORM WITH NATIONAL SANITATION FOUNDATION (NSF) STANDARD 14. PIPE SHALL BE IRON PIPE SIZE (IPS) CONFORMING TO ASTM F 841. INJECTION MOLDED FITTINGS SHALL CONFORM TO ASTM D 2665. FABRICATED FITTINGS SHALL CONFORM TO ASTM F 1866. SOLVENT CEMENTS SHALL CONFORM TO ASTM D 2564.
      3) PVC SCHEDULE 40 SOLID WALL PIPE AND DWV FITTING SYSTEM:(ASTM D2665) PIPE AND FITTINGS SHALL BE MANUFACTURED FROM PVC COMPOUND WITH A CELL CLASS OF 12454 PER ASTM D 1784 AND CONFORM WITH NATIONAL SANITATION FOUNDATION (NSF) STANDARD 14. PIPE SHALL BE IRON PIPE SIZE (IPS) CONFORMING TO ASTM D 1785 AND ASTM D 2665. INJECTION MOLDED FITTINGS SHALL CONFORM TO ASTM D 2665. FABRICATED FITTINGS SHALL CONFORM TO ASTM F 1866. SOLVENT CEMENTS SHALL CONFORM TO ASTM D 2564. (NOT FOR USE IN A RETURN AIR PLENUM)
      4) HUBLESS CAST IRON SOIL PIPE AND FITTINGS: HUBLESS CAST IRON PIPE AND FITTINGS SHALL BE MANUFACTURED FROM GRAY CAST IRON AND SHALL CONFORM TO ASTM A 888 AND CISPI STANDARD 301. HUBLESS COUPLINGS SHALL CONFORM TO CISPI STANDARD 310 AND BE CERTIFIED BY NSF® INTERNATIONAL.
      5) HUB AND SPIGOT CAST IRON SOIL PIPE AND FITTINGS: HUB AND SPIGOT CAST IRON PIPE AND FITTINGS SHALL BE MANUFACTURED FROM GRAY CAST IRON AND SHALL CONFORM TO ASTM A 74.
   F. STORM SEWER, SANITARY SEWER, GREASE WASTE, SAND OIL WASTE, AND VENTS. (ABOVE GROUND, INTERIOR TO THE BUILDING).
      1) ABS SCHEDULE 40 CELLULAR CORE (FOAM CORE) PIPE AND DWV FITTING SYSTEM:(ASTM F1488) PIPE AND FITTINGS SHALL BE MANUFACTURED FROM ABS COMPOUND WITH A CELL CLASS OF 42222 FOR PIPE AND 32222 FOR FITTINGS AS PER ASTM D 3965 AND CONFORM WITH NATIONAL SANITATION FOUNDATION (NSF) STANDARD 14. PIPE SHALL BE IRON PIPE SIZE (IPS) CONFORMING TO ASTM F 628 FITTINGS SHALL CONFORM TO ASTM D 2661. SOLVENT CEMENTS SHALL CONFORM TO ASTM D 2235. (NOT FOR USE IN A RETURN AIR PLENUM)
      2) PVC SCHEDULE 40 CELLULAR CORE (FOAM CORE) PIPE AND DWV FITTING SYSTEM:(ASTM F1488) PIPE AND FITTINGS SHALL BE MANUFACTURED FROM PVC COMPOUND WITH A CELL CLASS OF 11432 PER ASTM D 4396 FOR PIPE AND 12454 PER ASTM D 1784 FOR FITTINGS AND CONFORM WITH NATIONAL SANITATION FOUNDATION (NSF) STANDARD 14. PIPE SHALL BE IRON PIPE SIZE (IPS) CONFORMING TO ASTM F 841. INJECTION MOLDED FITTINGS SHALL CONFORM TO ASTM D 2665. FABRICATED FITTINGS SHALL CONFORM TO ASTM F 1866. SOLVENT CEMENTS SHALL CONFORM TO ASTM D 2564. (NOT FOR USE IN A RETURN AIR PLENUM)
      3) PVC SCHEDULE 40 SOLID WALL PIPE AND DWV FITTING SYSTEM: (ASTM D 2665) PIPE AND FITTINGS SHALL BE MANUFACTURED FROM PVC COMPOUND WITH A CELL CLASS OF 12454 PER ASTM D 1784 AND CONFORM WITH NATIONAL SANITATION FOUNDATION (NSF) STANDARD 14. PIPE SHALL BE IRON PIPE SIZE (IPS) CONFORMING TO ASTM D 1785 AND ASTM D 2665. INJECTION MOLDED FITTINGS SHALL CONFORM TO ASTM D 2665. FABRICATED FITTINGS SHALL CONFORM TO ASTM F 1866. SOLVENT CEMENTS SHALL CONFORM TO ASTM D 2564. (WHERE APPROVED BY LOCAL JURISDICTIONS) (NOT FOR USE IN A RETURN AIR PLENUM)
      4) HUBLESS CAST IRON SOIL PIPE AND FITTINGS: HUBLESS CAST IRON PIPE AND FITTINGS SHALL BE MANUFACTURED FROM GRAY CAST IRON AND SHALL CONFORM TO ASTM A 888 AND CISPI STANDARD 301. HUBLESS COUPLINGS SHALL CONFORM TO CISPI STANDARD 310 AND BE CERTIFIED BY NSF® INTERNATIONAL.
      5) HUB AND SPIGOT CAST IRON SOIL PIPE AND FITTINGS: HUB AND SPIGOT CAST IRON PIPE AND FITTINGS SHALL BE MANUFACTURED FROM GRAY CAST IRON AND SHALL CONFORM TO ASTM A 74.
   G. STORM SEWER, SANITARY SEWER, GREASE WASTE, SAND OIL WASTE, AND VENTS. (UNDERGROUND, EXTERIOR TO THE BUILDING).
      1) ABS SCHEDULE 40 CELLULAR CORE (FOAM CORE) PIPE AND DWV FITTING SYSTEM: (ASTM F1488) PIPE AND FITTINGS SHALL BE MANUFACTURED FROM ABS COMPOUND WITH A CELL CLASS OF 42222 FOR PIPE AND 32222 FOR FITTINGS AS PER ASTM D 3965 AND CONFORM WITH NATIONAL SANITATION FOUNDATION (NSF) STANDARD 14. PIPE SHALL BE IRON PIPE SIZE (IPS) CONFORMING TO ASTM F 2680 FITTINGS SHALL CONFORM TO ASTM D 2680. SOLVENT CEMENTS SHALL CONFORM TO ASTM D 2235.
      2) PVC SCHEDULE 40 CELLULAR CORE (FOAM CORE) PIPE AND DWV FITTING SYSTEM: (ASTM F1488) PIPE AND FITTINGS SHALL BE MANUFACTURED FROM PVC COMPOUND WITH A CELL CLASS OF 11432 PER ASTM D 4396 FOR PIPE AND 12454 PER ASTM D 1784 FOR FITTINGS AND CONFORM WITH NATIONAL SANITATION FOUNDATION (NSF) STANDARD 14. PIPE SHALL BE IRON PIPE SIZE (IPS) CONFORMING TO ASTM F 841. INJECTION MOLDED FITTINGS SHALL CONFORM TO ASTM F 794. FABRICATED FITTINGS SHALL CONFORM TO ASTM F 1866. SOLVENT CEMENTS SHALL CONFORM TO ASTM D 2564.
      3) PVC SCHEDULE 40 SOLID WALL PIPE AND DWV FITTING SYSTEM: (ASTM D 2665) PIPE AND FITTINGS SHALL BE MANUFACTURED FROM PVC COMPOUND WITH A CELL CLASS OF 12454 PER ASTM D 1784 AND CONFORM WITH NATIONAL SANITATION FOUNDATION (NSF) STANDARD 14. PIPE SHALL BE IRON PIPE SIZE (IPS) CONFORMING TO ASTM D 1785 AND ASTM D 2665. INJECTION MOLDED FITTINGS SHALL CONFORM TO ASTM F 794. FITTINGS SHALL CONFORM TO ASTM F 794. SOLVENT CEMENTS SHALL CONFORM TO ASTM D 2564.
      4) HUBLESS CAST IRON SOIL PIPE AND FITTINGS: HUBLESS CAST IRON PIPE AND FITTINGS SHALL BE MANUFACTURED FROM GRAY CAST IRON AND SHALL CONFORM TO ASTM A 888 AND CISPI STANDARD 301. HUBLESS COUPLINGS SHALL CONFORM TO CISPI STANDARD 310 AND BE CERTIFIED BY NSF® INTERNATIONAL.
      5) HUB AND SPIGOT CAST IRON SOIL PIPE AND FITTINGS: HUB AND SPIGOT CAST IRON PIPE AND FITTINGS SHALL BE MANUFACTURED FROM GRAY CAST IRON AND SHALL CONFORM TO ASTM A 74.
      6) COPPER DWV: DRAINAGE TUBE SHALL CONFORM TO ASTM B306, WROUGHT COPPER FITTINGS, ANSI B-16.29.
      7) GALVANIZED STEEL PIPE WITH MALLEABLE IRON, THREADED FITTINGS, DRAINAGE PATTERN FOR SEWERS SHALL CONFORM TO ASTM A 53.
   H. NATURAL GAS.
      1) BLACK STEEL PIPE, SCHEDULE 40, ASTM A53.
         a) PIPE 3" AND SMALLER: 150 LB. MALLEABLE IRON, THREADED FITTINGS.
         b) PIPE 4" AND SMALLER: VEGA MEGAPRESS G FOR WATER AND GAS. GSA LG4, TSSA/ASME B31 FOR USE WITH ASTM A53 SCHEDULE 40 BLACK IRON PIPE.
         c) PIPE 2-1/2" AND LARGER, WELDED
         d) PLUG VALVE: ROCKWELL NORDSTROM FIGURE NO. 142 OR 143.
         e) BALL VALVE: JOMAR T-100NE. APPROVALS- UL842, FM, CSA, NSF 61-8, MSS SP-110
      2) GAS PIPING LABELING:
         a) ALL ELEVATED PRESSURE GAS PIPING SHALL BE LABELED EVERY 40 FEET WITH SIGNS INDICATING 'ELEVATED PRESSURE'.
      3) GAS PIPING PAINTING:
         a) ALL BLACK STEEL GAS PIPING LOCATED EXTERIOR TO THE BUILDING SHALL BE PRIMED AND PAINTED TO EITHER MATCH ADJACENT EXTERIOR WHERE LOCATED ON OR NEAR EXTERIOR WALL AND PAINTED SAFETY YELLOW WHERE LOCATED ON THE ROOF.
   I. ALL PIPE HANGERS AND SUPPORTS SHALL BE STANDARD PRODUCTS OF GRINNELL, FEE AND MASON, OR ELCEN. HANGER SPACING SHALL BE IN ACCORDANCE WITH MSS-SP-69.
   J. SLEEVES
      1) PROVIDE, SET, AND PROPERLY LOCATE PIPE SLEEVES AS REQUIRED FOR THIS WORK. ALL SLEEVES SHALL BE OF SUFFICENT SIZE TO PERMIT PIPE MOVEMENT DUE TO EXPANSION AND CONTRACTION AND TO ACCOMMODATE PIPE INSULATION.
      2) INTERIOR PARTITIONS: 18 GAGE GALVANIZED STEEL. PACK BETWEEN PIPE AND SLEEVE WITH FIRE SAFING AND CAULK AT EACH END WITH FIRE RESISTANT SEALANT.
      3) ROOF: PROSET OR EQUAL, MANUFACTURED PVC SCHEDULE 40 PIPE SLEEVE WITH WATERPROOF SEAL. COORDINATE WITH ROOFING CONTRACTOR AND FLASH AS REQUIRED TO MAINTAIN ROOF WARRANTY.
      4) PROTECTION AGAINST CONTACT: METALLIC PIPING, EXCEPT FOR CAST IRON, DUCTILE IRON AND GALVANIZED STEEL SHALL NOT BE PLACED IN DIRECT CONTACT WITH STEEL FRAMING MEMBERS, CONCRETE, OR CINDER WALLS AND FLOORS OR OTHER MASONRY. METALLIC PIPING SHALL NOT BE PLACED IN DIRECT CONTACT WITH CORROSIVE SOIL. SHEATHING USED TO PREVENT DIRECT CONTACT SHALL HAVE A THICKNESS OF GREATER THAN .008; AND THE SHEATHING SHALL BE MADE OF PLASTIC. ANY PIPE THAT PASSES THROUGH A FOUNDATION WALL OR FOOTING SHALL BE PROVIDED WITH A RELIEVING ARCH, OR A PIPE SLEEVE SHALL BE BUILT INTO THE FOUNDATION WALL. THE SLEEVE SHALL BE TWO SIZES GREATER THAN THE PIPE PASSING THOUGH THE WALL OR FOOTING.
      5) PLUMBING VENTS: FLASH ROOF VENT INTO ROOFING SYSTEM AS REQUIRED BY THE ROOFING CONTRACTOR TO MAINTAIN EXISTING ROOF WARRANTY. ALL PLUMBING VENT TERMINALS SHALL TERMINATE A MINIMUM OF 12" ABOVE ROOF OR EQUAL TO HEIGHT OF PARAPET, WHICHEVER IS GREATER.
7. INSULATION:
   A. ALL INSULATIONS AND ACCESSORIES SHALL HAVE A FIRE HAZARD CLASSIFICATION WITH A FLAME SPREAD RATING OF NOT OVER 25, A FUEL CONTRIBUTION RATING OF NOT OVER 50, AND A SMOKE DEVELOPED RATING OF NOT OVER 50, IN ACCORDANCE WITH NFPA.
   B. PIPE INSULATION - ABOVE GRADE.
      1) THE PIPING INSULATION USED SHALL HAVE A THERMAL CONDUCTIVITY OF 0.27 Btu PER in/hr*sqft*F° OR LESS.
      2) FIBERGLASS INSULATION WITH FACTORY APPLIED VAPOR BARRIER, ASJ JACKET, FACTORY APPLIED PRESSURE SEALING LONGITUDE LAP JOINT, NO STAPLES, ZESTON PREMOLDED PVC FITTING COVERS. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
      3) FLEXIBLE CLOSED CELL ELASTOMERIC THERMAL INSULATION, UNSLIT OR PRESLIT WITH PRESSURE SENSITIVE ADHESIVE SYSTEM FOR CLOSURE AND VAPOR SEALING, EQUAL TO ARMSTRONG AP ARMAFLEX OR ARMAFLEX 2000.
      4) FOR NON CIRCULATING SYSTEMS, THE FIRST 8 FEET OF INLET AND OUTLET PIPING BETWEEN THE TANK AND THE HEAT TRAP (INCLUDING THE HEAT TRAP) MUST BE INSULATED.
      5) FOR CIRCULATING SYSTEMS, ALL HOT WATER PIPING IN THE CIRCULATION LOOP MUST BE INSULATED AS SPECIFIED BELOW.
      6) INSULATION SCHEDULE:

?????	a) DOMESTIC COLD WATER	1/2"
	b) DOMESTIC HOT WATER	1" FOR PIPING UP TO 1-1/4"Ø, & 1-1/2" FOR PIPING 1-1/2"Ø AND LARGER
	c) HOT WATER RECIRCULATING	1"
	d) CONDENSATE DRAINS INSIDE BUILDING	1/2"
	e) REFRIGERANT SUCTION	3/4" FOR PIPING UP TO 1-1/4"Ø, & 1" FOR PIPING 1-1/2"Ø AND LARGER
	f) HORIZONTAL STORM PIPE	1/2"
	g) HORIZONTAL STORM OVERFLOW PIPE	1/2"
?????	h) ROOF DRAINS	1" INSULATION SHALL BE PROVIDED AT ROOF DRAIN BODY AND A MINIMUM OF 10' OF HORIZONTAL PIPING OR A MINIMUM OF 5' IF COMBINATION OF HORIZONTAL AND VERTICAL STORM PIPING DOWNSTREAM OF ROOF DRAIN BODY.

CENTRAL
PLUMBING, HEATING & AIR CONDITIONING, INC.
201 East Walnut
Cleveland, MO 64734
816-942-6355

BC ENGINEERS INCORPORATED
5720 Reeder Shawnee, KS 66203 (913)262-1772

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5719 LAWTON LOOP E. DR. #212
INDIANAPOLIS, IN 46216
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F :: 317 . 288 . 0753

SCANNELL
PROPERTIES

4/26/2022

REGISTERED STATE OF MISSOURI ENGINEER
ERIK B. KNUDSEN
NUMBER PE-2004026504

LEE'S SUMMIT LOGISTICS BUILDING A LOT 1

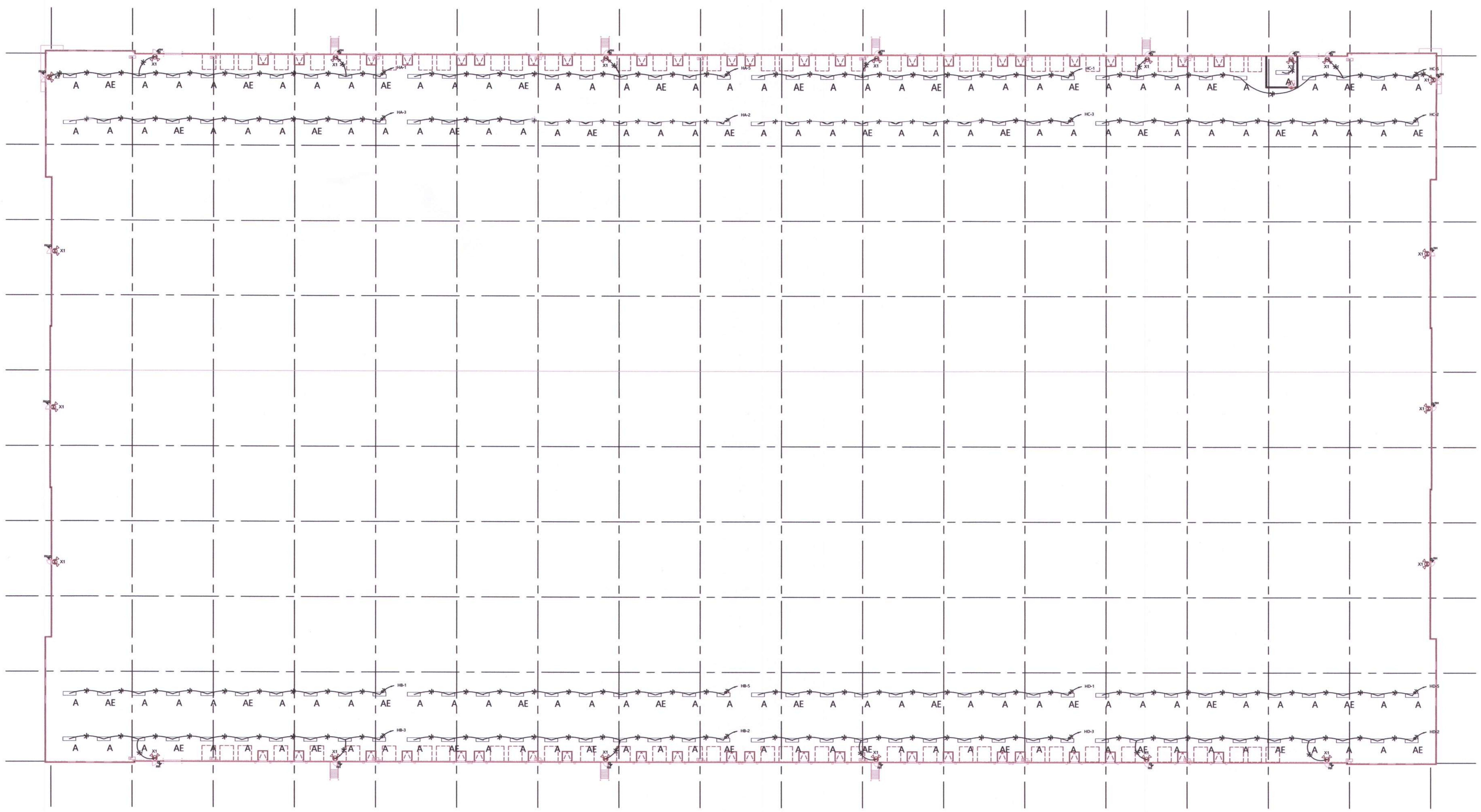
NW CORNER OF
NE TUDOR RD & MAIN ST
LEE'S SUMMIT, MO 64086

PERMIT SET	02.18.22

210300

PLUMBING SPECIFICATIONS

P106



1 LIGHTING PLAN
1" = 40'

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SCANNELL
PROPERTIES

CERTIFICATION

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS
BUILDING A LOT 1

NW CORNER OF
NE TUDOR RD & MAIN ST
LEE'S SUMMIT, MO 64086

HERITAGE ELECTRIC, L.L.C.
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Olathe, Kansas
phone (913) 663 1200
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HERITAGE ELECTRIC

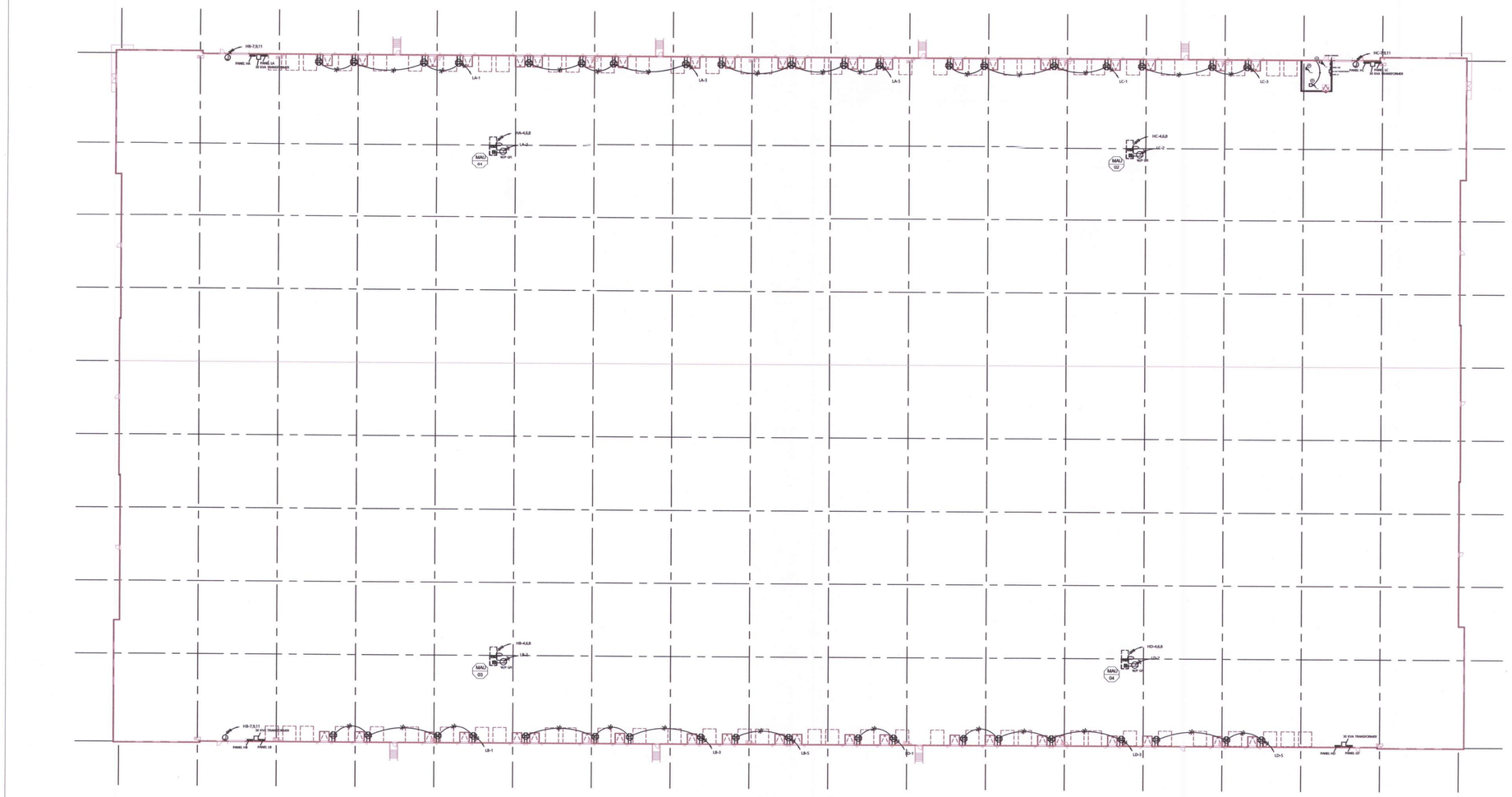
STATE OF MISSOURI
JOHN WILLIAM CASBURN, JR.
NUMBER
E-14378
PROFESSIONAL ENGINEER
4/26/22

ISSUE DATES

PERMIT SET	02.18.22

210300

E1.00



1 POWER PLAN
1" = 40'

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PROPERTIES

CERTIFICATION

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS
BUILDING A LOT 1

NW CORNER OF
NE TUDOR RD & MAIN ST
LEE'S SUMMIT, MO 64086

ISSUE DATES

PERMIT SET	02.18.22

210300

E2.00

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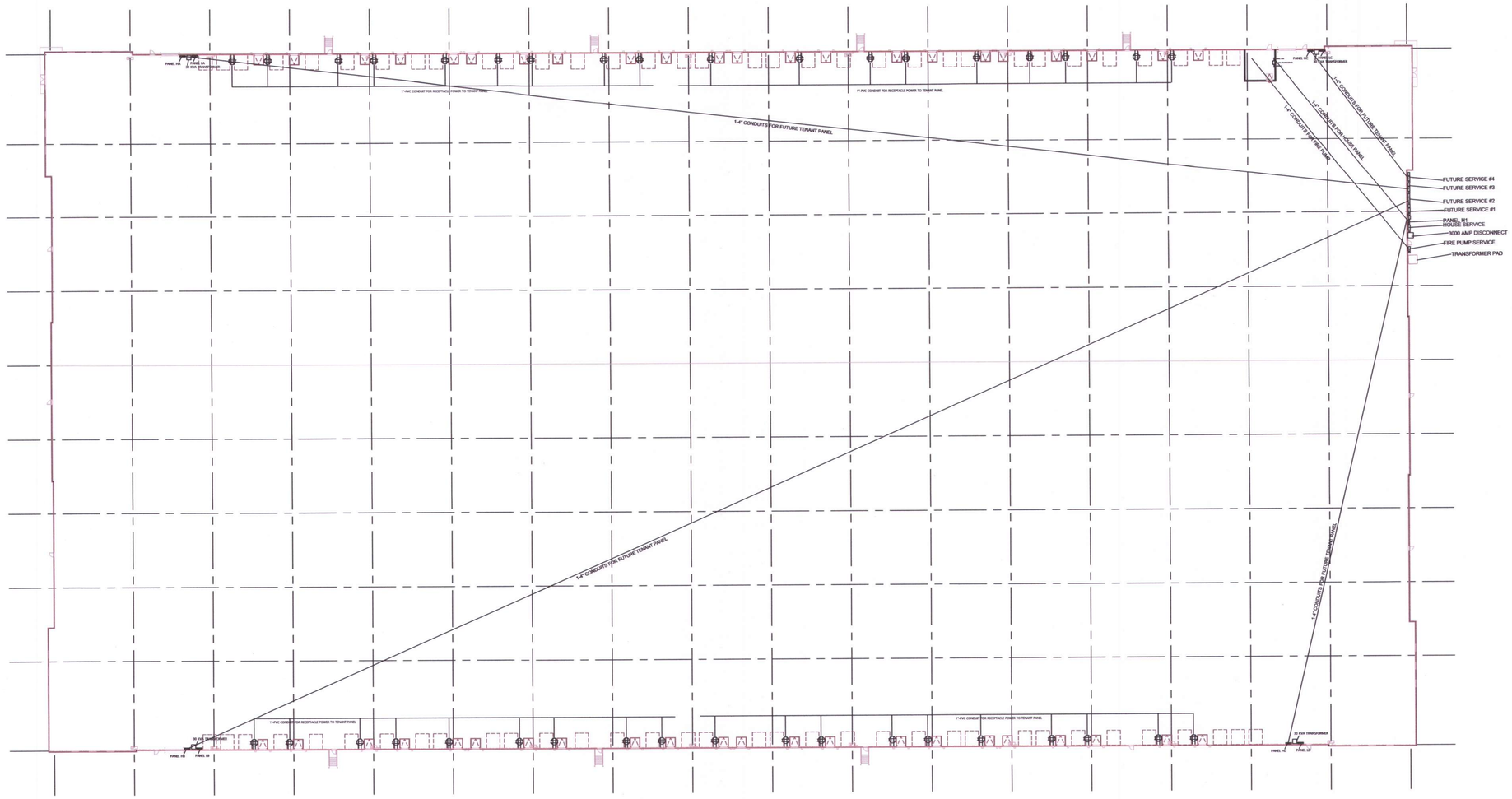
HERITAGE ELECTRIC

STATE OF MISSOURI
JOHN WILLIAM CARRUTH, IV
NUMBER E-14378
PROFESSIONAL ENGINEER
4/26/22



1 UNDERGROUND

1" = 40'

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SCANNELL
PROPERTIES

CERTIFICATION

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS
BUILDING A LOT 1

NW CORNER OF
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PERMIT SET	02.18.22

210300

E3.00

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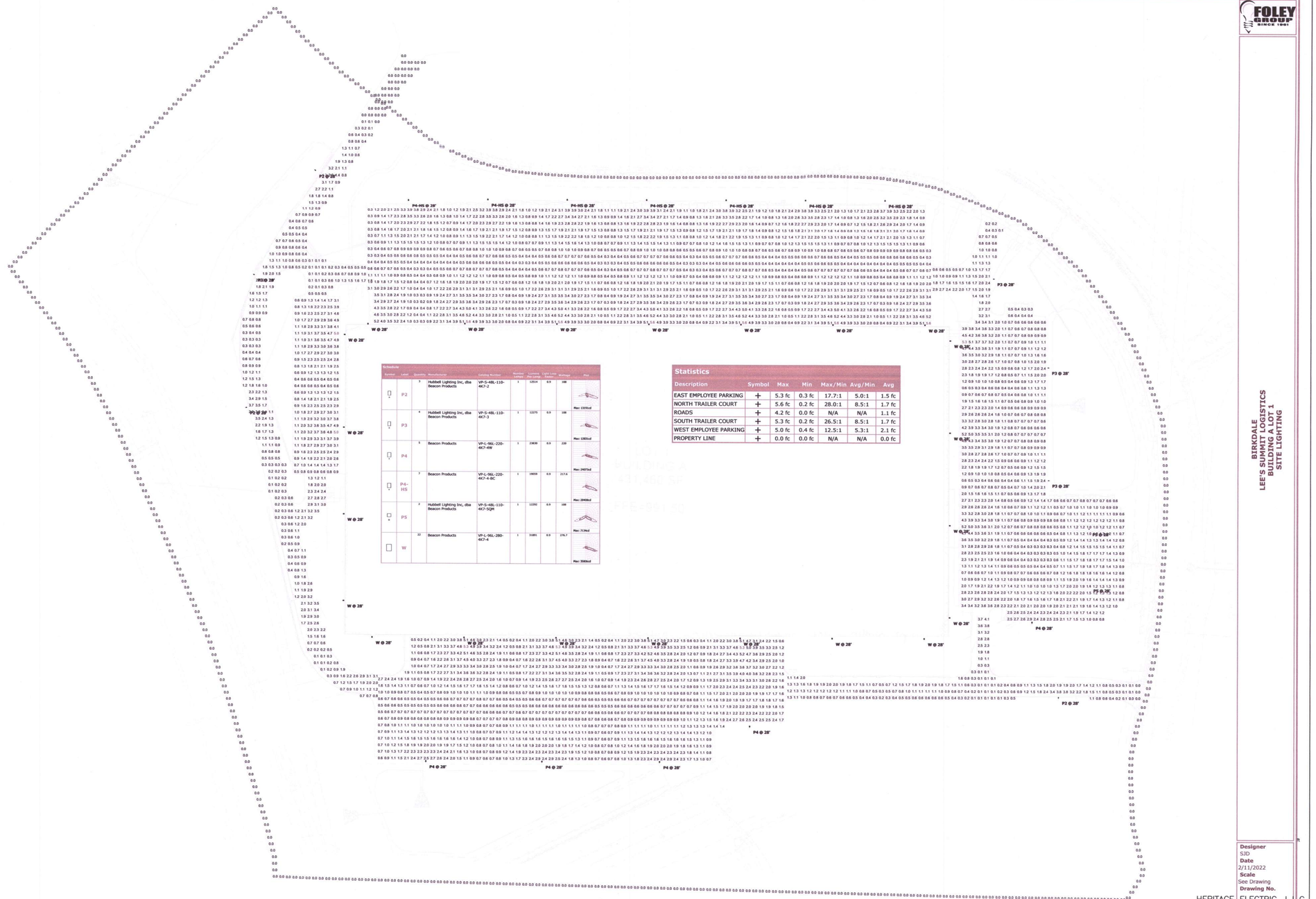
HERITAGE ELECTRIC

STATE OF MISSOURI
JOHN WILLIAM CASPORA JR.
NUMBER E-14378
PROFESSIONAL ENGINEER
4/26/22



Schedule										
Symbol	Label	Quantity	Manufacturer	Catalog Number	Number Lamps	Lumens Per Lamp	Light Loss Factor	Wattage	Plot
	P2	5	Hubbell Lighting Inc, dba Beacon Products	VP-S-48L-110-4K7-2	1	12514	0.9	108	
	P3	4	Hubbell Lighting Inc, dba Beacon Products	VP-S-48L-110-4K7-3	1	13275	0.9	108	
	P4	5	Beacon Products	VP-L-96L-220-4K7-4W	1	23830	0.9	220	
	P4-HS	7	Beacon Products	VP-L-96L-220-4K7-4-8C	1	19059	0.9	217.6	
	P5	2	Hubbell Lighting Inc, dba Beacon Products	VP-S-48L-110-4K7-SQW	1	11292	0.9	108	
	W	22	Beacon Products	VP-L-96L-280-4K7-4	1	31691	0.9	276.7	

Statistics						
Description	Symbol	Max	Min	Max/Min	Avg/Min	Avg
EAST EMPLOYEE PARKING	+	5.3 fc	0.3 fc	17.7:1	5.0:1	1.5 fc
NORTH TRAILER COURT	+	5.6 fc	0.2 fc	28.0:1	8.5:1	1.7 fc
ROADS	+	4.2 fc	0.0 fc	N/A	N/A	1.1 fc
SOUTH TRAILER COURT	+	5.3 fc	0.2 fc	26.5:1	8.5:1	1.7 fc
WEST EMPLOYEE PARKING	+	5.0 fc	0.4 fc	12.5:1	5.3:1	2.1 fc
PROPERTY LINE	+	0.0 fc	0.0 fc	N/A	N/A	0.0 fc

1 PHOTOMETRIC PLAN
N.T.S

FOLEY GROUP SINCE 1961

BIRKDALE
LEE'S SUMMIT LOGISTICS
BUILDING A LOT 1
SITE LIGHTING

Designer SJD
Date 2/11/2022
Scale See Drawing
Drawing No.
Sheet 1 of 1

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HERITAGE ELECTRIC

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SCANNELL PROPERTIES

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BUILDING A LOT 1

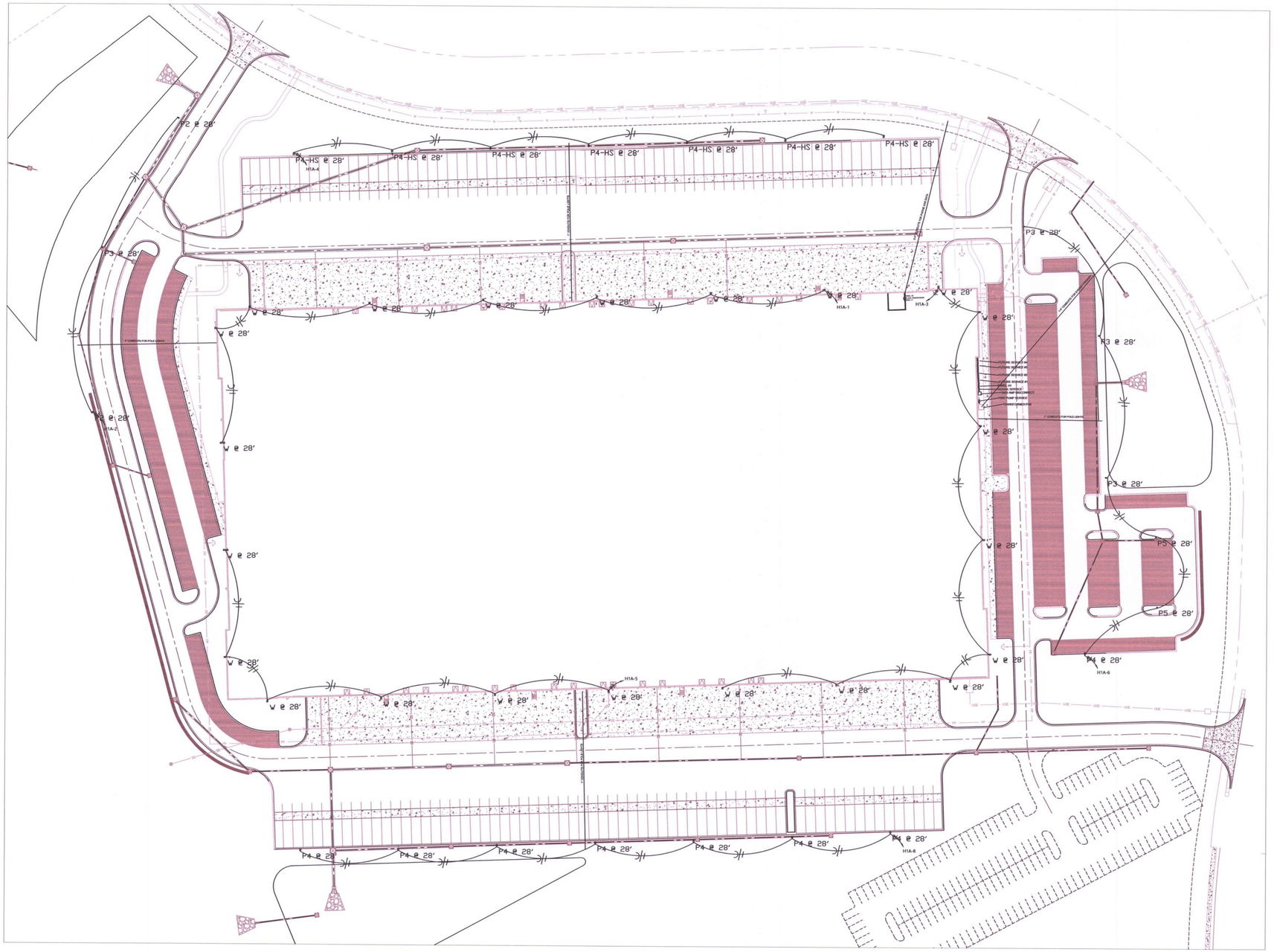
NW CORNER OF
NE TUDOR RD & MAIN ST
LEE'S SUMMIT, MO 64086

ISSUE DATES

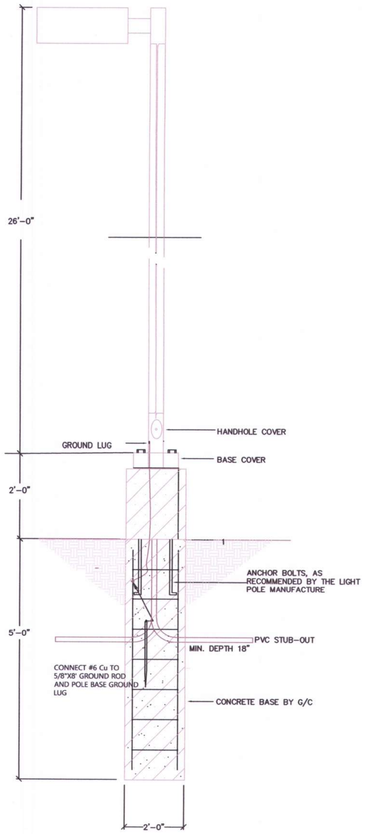
PERMIT SET	02.18.22

210300

E4.00



1 SITE
1/64" = 1'



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HERITAGE ELECTRIC

STATE OF MISSOURI
JOHN WILLIAM CARLSON
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PROFESSIONAL ENGINEER
4/22/22

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SCANNELL PROPERTIES

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LEE'S SUMMIT LOGISTICS BUILDING A LOT 1

NW CORNER OF
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LEE'S SUMMIT, MO 64086

ISSUE DATES

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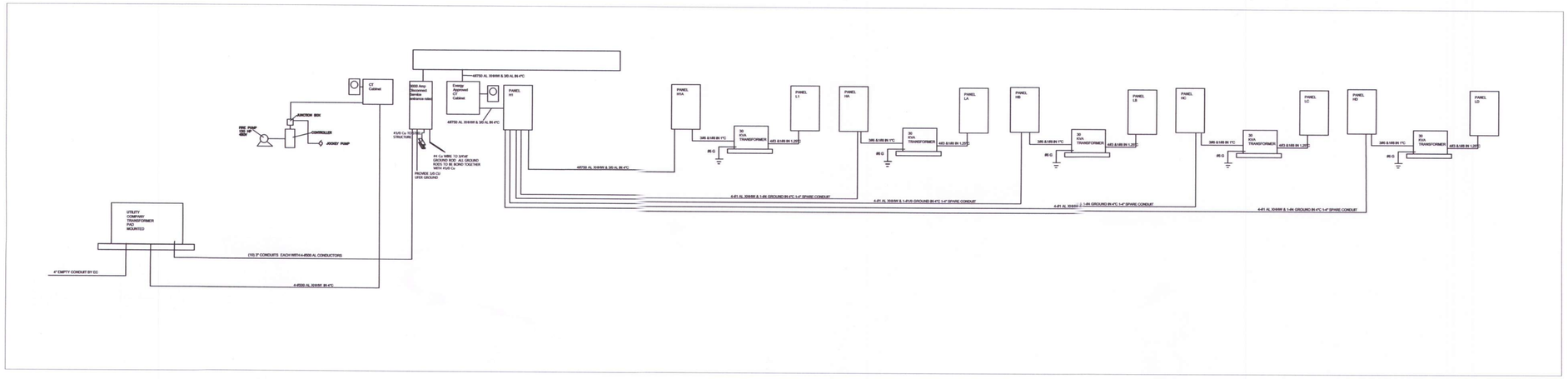
E5.00



1 RISER DIAGRAM
N.T.S

LIGHT FIXTURE SCHEDULE

TYPE	MANUFACTURER	CATALOG NO.	LAMPS	MOUNTING	VOLTS	REMARKS
A	Columbia Lighting	PEL4-40MV-EDU-DSI360	LED	CEILING	277	PROVIDE WITH INTEGRAL OCCUPANCY SENSOR
AE	Columbia Lighting	PEL4-40MV-EDU-ELL40-PSI 360	LED	CEILING	277	SAME AS TYPE A WITH EMERGENCY BALLAST
X1	Compass	CCR	LED	WALL	277	OR EQUAL
RH	Compass	CUWZ-PC	LED	WALL	277	OR EQUAL
P2	Hubbell	VP-S-48L-110-4K7-2	LED	POLE LIGHT	277	OR EQUAL
P3	Hubbell	VP-S-48L-110-4K7-3	LED	POLE LIGHT	277	OR EQUAL
P4	BEACON	VP-L-96L-220-4K7-4W	LED	POLE LIGHTS	277	OR EQUAL
P4-HS	BEACON	VP-L-96L-220-4K7-BC	LED	POLE LIGHTS	277	OR EQUAL
P5	HUBBELL	VP-S-48L-110-4K7-SQM	LED	POLE LIGHT	277	OR EQUAL
WP1	BEACON	VP-L-96L-280-4K7-4	LED	WALL PACK	277	OR EQUAL

Scope:
Provide electrical for new warehouse
All Electrical work shall be as per NEC 2017.
All work shall be done by qualified electricians.
All branch wiring shall be copper.
Devices shall be 20a commercial grade and color shall be by architect.

SPECIFICATIONS

1. CONDUIT ABOVE GRADE SHALL BE EMT UNLESS OTHERWISE NOTED
2. CONDUIT BELOW GRADE SHALL BE RIGID PVC UNLESS OTHERWISE NOTED
3. CONNECTIONS SHALL BE MADE USING SET SCREW CONNECTORS
4. MC CABLE IS ACCETABLE FOR FINAL CONNECTIONS TO LIGHT FIXTURES PROVIDE WITH 10' WHIP ON ALL HIGHBAYS
5. BRANCH WIRING SHALL BE #12 THHN COPPER UNLESS OTHERWISE NOTED
6. WIRING SHALL BE AS PER CURRENT NEC 2005
7. WIRING DEVICES SHALL BE OF COMMERCIAL GRADE RATED AT 20 AMP
8. INSTALLATION SHALL ADHERE TO ADA STANDARDS
9. ALUMINUM XHHW-#2 CABLE MAY BE USED FOR FEEDERS LARGER THEN #2 OTHERWISE COPPER
10. REFER TO KCP&L STANDARDS MANUAL FOR 480 SERVICES
11. ALL LIGHTING/EQUIPMENT IN WAREHOUSE SHALL BE MOUNTED TO PROVIDE A MIN OF 36' CLEAR HEIGHT

COMcheck Software Version 4.1.1.0

Interior Lighting Compliance Certificate

Project Information

Energy Code: 90.1 (2016) Standard
Project Title: Lee's Summit Logistics Building A Lot 1
Project Type: New Construction

Construction Site:
NW Corner of NE Tudor RD & Main ST
Lee's Summit, MO 64086

Owner/Agent:

Designer/Contractor:
Jeremy Hansen
Heritage Electric
841 N Martway Drive
Olathe, KS 66061
913-747-0528
jhansen@heritage-electric.com

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B X C)
1-Warehouse	436300	0.48	209424
		Total Allowed Watts =	209424

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
1-Warehouse				
LED 1: Other:	1	160	200	32000
			Total Proposed Watts =	32000

Interior Lighting PASSES: Design 85% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 90.1 (2016) Standard requirements in COM*check* Version 4.1.1.0 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Jeremy Hansen V.P. — Name - Title
Signature
03/15/2022 — Date

Project Title: Lee's Summit Logistics Building A Lot 1
Data filename: Untitled.cck
Report date: 03/15/22
Page 1 of 5

ELECTRICAL GENERAL NOTES

1. WORK INCLUDED: FURNISH ALL LABOR, MATERIAL, SERVICES AND SKILLED SUPERVISION NECESSARY FOR THE CONSTRUCTION, ERECTION, INSTALLATION CONNECTIONS, TESTING AND ADJUSTMENTS OF ALL CIRCUITS AND ELECTRICAL EQUIPMENT SPECIFIED HEREIN, OR NOTED ON THE DRAWINGS, AND ITS DELIVERY TO THE OWNER COMPLETE IN ALL RESPECTS READY FOR USE.
2. CONTRACT DRAWINGS THE CONTRACT DRAWINGS ARE SHOWN IN PART DIAGRAMMATIC, INTENDED TO CONVEY THE SCOPE OF WORK, INDICATING THE GENERAL ARRANGEMENT OF EQUIPMENT, CONDUIT AND OUTLETS. VERIFY SPACES FOR THE INSTALLATION OF THE MATERIALS BASED ON ACTUAL DIMENSIONS OF EQUIPMENT FURNISHED. IF A QUESTION EXISTS AS TO THE EXACT INTENDED LOCATION OF OUTLETS OR EQUIPMENT, OBTAIN INSTRUCTIONS FROM THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH WORK.
3. MINIMUM SIZE OF CONDUIT SHALL BE 1/2" UNLESS NOTED OTHERWISE.
4. ALL WIRING FOR LIGHTING, RECEPTACLE AND POWER CIRCUITS WHERE NOT SHOWN ON DRAWINGS SHALL BE WITH #12 CONDUCTORS, NUMBER AS REQUIRED IN CONDUIT SIZED PER N.E.C. PROVIDE EQUIPMENT GROUNDING CONDUCTOR FOR ALL BRANCH CIRCUITS AND FEEDERS. HOMERUNS TO PANEL SHALL BE IN INDIVIDUAL CONDUITS, UNLESS NOTED OTHERWISE, WITH CIRCUITS AS SHOWN.
5. THE USE OF TYPE 'MC' AND TYPE 'AC' CABLE IS PERMITTED IN ALL AREAS PER NEC AND LOCAL CODE REQUIREMENTS.
6. THE USE OF ALUMINUM CONDUCTORS WITH AMPACITY EQUIVALENT TO COPPER IS PERMITTED IN ALL AREAS PER NEC REQUIREMENTS.
7. ALL JUNCTION BOXES, PULL BOXES, AND PANELBOARDS SHALL BE RIGIDLY ATTACHED TO STRUCTURE.
8. COORDINATE ALL WORK WITH OTHER TRADES AND EXISTING CONDITIONS AS REQUIRED TO PROPERLY INSTALL ALL SYSTEMS AS INTENDED, WITHIN THE CONFINES OF THE SPACE AVAILABLE, AND WITHOUT INTERFERENCES.
9. ALL CONDUIT, BOXES, ETC. SHALL BE CONCEALED OR MOUNTED FLUSH WITH CEILING OR WALL CONSTRUCTION, CONDUITS SHALL BE MOUNTED AS HIGH AS POSSIBLE. NO SURFACE MOUNTED CONDUIT, BOXES, ETC. WILL BE PERMITTED WITHOUT PERMISSION OF THE ENGINEER PRIOR TO INSTALLATION. ALL CONDUIT PENETRATIONS SHALL BE FIRE-CAULKED AS REQUIRED.

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HERITAGE ELECTRIC

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JOHN WILLIAM CASHION, III
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PROFESSIONAL ENGINEER
4/26/22

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SCANNELL PROPERTIES

CERTIFICATION

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING A LOT 1

NW CORNER OF
NE TUDOR RD & MAIN ST
LEE'S SUMMIT, MO 64086

ISSUE DATES

PERMIT SET	02.18.22

210300

E6.00

PANEL: H1 400A MB 277/ 480 V, 3PH, 4W.+GRND. **NEW**

CCT	SERVES	VA	OCP	WIRE	PHASE	WIRE	OCP	VA	SERVES	CCT
1	PANEL HA	12125	100/3	4-#1 AL-1-#6G	A	4-#1 AL-1-#6G	100/3	11925	PANEL HC	2
3		9925			B			9725		4
5		9925			C			10125		6
7	PANEL HB	12125	100/3	4-#1 AL-1-#6G	A	4-#1 AL-1-#6G	100/3	11925	PANE HD	8
9		9925			B			9725		10
11		9925			C			9725		12
13	PANEL H1A	10088	100/3	4-#1 AL-1-#6G	A					14
15		9743			B					16
17		8428			C					18
19					A					20
21					B					22
23					C					24
25					A					26
27					B					28
29					C					30
31					A					32
33					B					34
35					C					36
37					A					38
39					B					40
41					C					42

NOTES:
1 NEMA 3R ENCLOSURE
2 PROVIDE BOLT ON BREAKERS
3

LOAD SUMMARY	CONN	NEC	DEM	LOAD BALANCE PER PHASE		
1-LIGHTING	0	1.25	0	PHASE A		58188
2-RECEPTACLES	155359	NEC	82679.5	PHASE B		49043
3-KITCHEN	0	0.65	0	PHASE C		48128
4-HVAC	0	1	0	LOWEST PHASE PLUS 10%		
5-NON-CONT	0	1	0	48128	+ 10%	52940.8
LARGEST MOTOR	0	0.25	0	REBALANCE LOADS		
TOTAL VA	155359		82679.5			
TOTAL AMPS	186.9		99.5			

PANEL: H1A 100A MLO 277/ 480 V, 3PH, 4W.+GRND. **NEW**

CCT	SERVES	VA	OCP	WIRE	PHASE	WIRE	OCP	VA	SERVES	CCT
1	WALL PACKS	2224	20/1	2-#12,1-#12G	A	2-#12-1-#12G	20/1	324	POLE LIGHTS	2
3	WALL PACKS	2224	20/1	2-#12-1-#12G	B	2-#12-1-#12G	20/1	1519	POLE LIGHTS	4
5	WALL PACKS	1668	20/1	2-#12-1-#12G	C	2-#12-1-#12G	20/3	760	POLE LIGHTS	6
7	UNITHEATER	5000	30/3	3-#10-1-#12G	A	2-#12-1-#12G	20/1	1540	POLE LIGHTS	8
9		5000			B					10
11		5000			C					12
13					A					14
15					B					16
17					C					18
19					A					20
21					B					22
23					C					24
25					A					26
27					B					28
29					C					30
31					A					32
33					B					34
35					C					36
37					A	3-#8,1#10G	50/3	1000	TRANSFORMER	38
39					B		-	1000	TRANSFORMER	40
41					C		-	1000	TRANSFORMER	42

NOTES:
1 NEMA 1 ENCLOSURE
2 PROVIDE BOLT ON BREAKERS
3

LOAD SUMMARY	CONN	NEC	DEM	LOAD BALANCE PER PHASE		
1-LIGHTING	10259	1.25	12823.75	PHASE A		10088
2-RECEPTACLES	3000	NEC	3000	PHASE B		9743
3-KITCHEN	0	0.65	0	PHASE C		8428
4-HVAC	15000	1	15000	LOWEST PHASE PLUS 10%		
5-NON-CONT	0	1	0	8428	+ 10%	9270.8
LARGEST MOTOR	0	0.25	0	REBALANCE LOADS		
TOTAL VA	28259		30823.75			
TOTAL AMPS	34.0		37.1			

PANEL: L1 100 MB 120/ 208 V, 3PH, 4W.+GRND **NEW**

CCT	SERVES	VA	OCP	WIRE	PHASE	WIRE	OCP	VA	SERVES	CCT
1	EXHAUST FAN	250	20/1	2-#12,1-#12G	A				SPARE	2
3	GFCI RECEP	200	20/1	2-#12,1-#12G	B				SPARE	4
5	LIGHT	199	20/1	2-#12,1-#12G	C				SPARE	6
7	SPARE				A				SPARE	8
9	SPARE				B				SPARE	10
11	SPACE				C	-			SPACE	12
13	SPACE				A	-			SPACE	14
15	SPACE			-	B	-			SPACE	16
17	SPACE			-	C	-			SPACE	18
19	SPACE			-	A	-			SPACE	20
21	SPACE			-	B	-			SPACE	22
23	SPACE			-	C	-			SPACE	24
25	SPACE			--	A	--			SPACE	26
27	SPACE			--	B	--			SPACE	28
29	SPACE			--	C	--			SPACE	30
31	SPACE			--	A	-			SPACE	32
33	SPACE			--	B	--			SPACE	34
35	SPACE			--	C	--			SPACE	36
37	SPACE			-	A	-			SPACE	38
39	SPACE			--	B	--			SPACE	40
41	SPACE			--	C	--			SPACE	42

NOTES:
1 NEMA 1 ENCLOSURE
2 PROVIDE BOLT ON BREAKERS
3

LOAD SUMMARY	CONN	NEC	DEM	LOAD BALANCE PER PHASE		
1-LIGHTING	199	1.25	248.75	PHASE A		250
2-RECEPTACLES	200	NEC	200	PHASE B		200
3-KITCHEN	0	0.65	0	PHASE C		199
4-HVAC	250	1	250	LOWEST PHASE PLUS 10%		
5-NON-CONT	0	1	0	199	+ 10%	218.9
LARGEST MOTOR	0	0.25	0	REBALANCE LOADS		
TOTAL VA	649		698.75			
TOTAL AMPS	1.8		1.9			

PANEL: HA 100A MLO 277/ 480 V, 3PH, 4W.+GRND. **NEW PANEL**

CCT	SERVES	VA	OCP	WIRE	PHASE	WIRE	OCP	VA	SERVES	CCT
1	WAREHOUSE LIGHTS	2000	20/1	2-#12,1-#12G	A	2-#12,1-#12G	20/1	2000	WAREHOUSE LIGHTS	2
3	WAREHOUSE LIGHTS	2000	20/1	2-#12-1-#12G	B	3-#8-1-#10G	50/3	6925	MAU1	4
5	WAREHOUSE LIGHTS	2000	20/1	2-#12-1-#12G	C			6925		6
7	OVERHEAD DOOR	200	20/3	4-#10-1-#12G	A			6925		8
9		200			B					10
11		200			C					12
13					A					14
15					B					16
17					C					18
19					A					20
21					B					22
23					C					24
25					A					26
27					B					28
29					C					30
31					A					32
33					B					34
35					C					36
37					A	3-#8,1#10G	50/3	1000	TRANSFORMER	38
39					B		-	800	TRANSFORMER	40
41			-		C		-	800	TRANSFORMER	42

NOTES:
1 NEMA 1 ENCLOSURE
2 PROVIDE BOLT ON BREAKERS
3

LOAD SUMMARY	CONN	NEC	DEM	LOAD BALANCE PER PHASE		
1-LIGHTING	8000	1.25	10000	PHASE A		12125
2-RECEPTACLES	2600	NEC	2600	PHASE B		9925
3-KITCHEN	0	0.65	0	PHASE C		9925
4-HVAC	20775	1	20775	LOWEST PHASE PLUS 10%		
5-NON-CONT	600	1	600	9925	+ 10%	10917.5
LARGEST MOTOR	0	0.25	0	REBALANCE LOADS		
TOTAL VA	31975		33975			
TOTAL AMPS	38.5		40.9			

PANEL: LA 100 MB 120/ 208 V, 3PH, 4W.+GRND. **NEW PANEL**

CCT	SERVES	VA	OCP	WIRE	PHASE	WIRE	OCP	VA	SERVES	CCT
1	DOCK RECEPS	800	20/1	2-#12,1-#12G	A	2-#12,1-#12G	20/1	200	GFCI RECEP	2
3	DOCK RECEPS	800	20/1	2-#12,1-#12G	B		20/1		SPARE	4
5	DOCK RECEPS	800	20/1	2-#12,1-#12G	C		20/1		SPARE	6
7	SPARE		20/1		A		20/1		SPARE	8
9	SPARE		20/1		B		20/1		SPARE	10
11	SPARE		20/1		C		20/1		SPARE	12
13	SPACE				A				SPACE	14
15	SPACE				B				SPACE	16
17	SPACE				C				SPACE	18
19	SPACE				A				SPACE	20
21	SPACE				B				SPACE	22
23	SPACE				C				SPACE	24
25	SPACE				A				SPACE	26
27	SPACE			--	B	--			SPACE	28
29	SPACE			--	C	--			SPACE	30
31	SPACE			--	A	-			SPACE	32
33	SPACE			--	B	--			SPACE	34
35	SPACE			--	C	--			SPACE	36
37	SPACE			-	A	-			SPACE	38
39	SPACE			--	B	--			SPACE	40
41	SPACE			--	C	--			SPACE	42

NOTES:
1 NEMA 1 ENCLOSURE
2 PROVIDE BOLT ON BREAKERS
3

LOAD SUMMARY	CONN	NEC	DEM	LOAD BALANCE PER PHASE		
1-LIGHTING	0	1.25	0	PHASE A		1000
2-RECEPTACLES	2600	NEC	2600	PHASE B		800
3-KITCHEN	0	0.65	0	PHASE C		800
4-HVAC	0	1	0	LOWEST PHASE PLUS 10%		
5-NON-CONT	0	1	0	800	+ 10%	880
LARGEST MOTOR	0	0.25	0	REBALANCE LOADS		
TOTAL VA	2600		2600			
TOTAL AMPS	7.2		7.2			

PANEL: HB 100A MLO 277/ 480 V, 3PH, 4W.+GRND. **NEW PANEL**

CCT	SERVES	VA	OCP	WIRE	PHASE	WIRE	OCP	VA	SERVES	CCT
1	WAREHOUSE LIGHTS	2000	20/1	2-#12,1-#12G		2-#12,1-#12G	20/1	2000	WAREHOUSE LIGHTS	2
3	WAREHOUSE LIGHTS	2000	20/1	2-#12-1-#12G		3-#8-1-#10G	50/3	6925	MAU1	4
5	WAREHOUSE LIGHTS	2000	20/1	2-#12-1-#12G				6925		6
7	OVERHEAD DOOR	200	20/3	4-#10-1-#12G				6925		8
9		200								10
11		200								12
13										14
15										16
17										18
19										20
21										22
23										24
25										26
27										28
29										30
31										32
33										34
35										36
37						3-#8,1#10G	50/3	1000	TRANSFORMER	38
39							-	800	TRANSFORMER	40
41							-	800	TRANSFORMER	42

NOTES:
1 NEMA 1 ENCLOSURE
2 PROVIDE BOLT ON BREAKERS
3

LOAD SUMMARY	CONN	NEC	DEM	LOAD BALANCE PER PHASE		
1-LIGHTING	29375	1.25	36718.75	PHASE A		12125
2-RECEPTACLES	2600	NEC	2600	PHASE B		9925
3-KITCHEN	0	0.65	0	PHASE C		9925
4-HVAC	0	1	0	LOWEST PHASE PLUS 10%		
5-NON-CONT	0	1	0	9925	+ 10%	10917.5
LARGEST MOTOR	0	0.25	0	REBALANCE LOADS		
TOTAL VA	31975		39318.75			
TOTAL AMPS	38.5		47.3			

PANEL: LB 100 MB 120/ 208 V, 3PH, 4W.+GRND. **NEW PANEL**

CCT	SERVES	VA	OCP	WIRE	PHASE	WIRE	OCP	VA	SERVES	CCT
1	DOCK POWER	800	20/1	2-#12,1-#12G	A	2-#12,1-#12G	20/1	200	GFCI RECEP	2
3	DOCK POWER	800	20/1	2-#12,1-#12G	B		20/1		SPARE	4
5	DOCK POWER	800	20/1		C		20/1		SPARE	6
7	SPARE		20/1		A		20/1		SPARE	8
9	SPARE		20/1		B		20/1		SPARE	10
11	SPARE		20/1		C		20/1		SPARE	12
13	SPARE		20/1		A		20/1		SPARE	14
15	SPACE				B	-			SPACE	16
17	SPACE				C	-			SPACE	18
19	SPACE				A	-			SPACE	20
21	SPACE				B	-			SPACE	22
23	SPACE			-	C	-			SPACE	24
25	SPACE			--	A	--			SPACE	26
27	SPACE			--	B	--			SPACE	28
29	SPACE			--	C	--			SPACE	30
31	SPACE			--	A	-			SPACE	32
33	SPACE			--	B	--			SPACE	34
35	SPACE			--	C	--			SPACE	36
37	SPACE			-	A	-			SPACE	38
39	SPACE			--	B	--			SPACE	40
41	SPACE			--	C	--			SPACE	42

NOTES:
1 NEMA 1 ENCLOSURE
2 PROVIDE BOLT ON BREAKERS
3

LOAD SUMMARY	CONN	NEC	DEM	LOAD BALANCE PER PHASE		
1-LIGHTING	0	1.25	0	PHASE A		1000
2-RECEPTACLES	2600	NEC	2600	PHASE B		800
3-KITCHEN	0	0.65	0	PHASE C		800
4-HVAC	0	1	0	LOWEST PHASE PLUS 10%		
5-NON-CONT	0	1	0	800	+ 10%	880
LARGEST MOTOR	0	0.25	0	REBALANCE LOADS		
TOTAL VA	2600		2600			
TOTAL AMPS	7.2		7.2			

PANEL: HC 100A MLO 277/ 480 V, 3PH, 4W.+GRND. **NEW PANEL**

CCT	SERVES	VA	OCP	WIRE	PHASE	WIRE	OCP	VA	SERVES	CCT
1	WAREHOUSE LIGHTS	2000	20/1	2-#12,1-#12G	A	2-#12,1-#12G	20/1	2000	WAREHOUSE LIGHTS	2
3	WAREHOUSE LIGHTS	2000	20/1	2-#12-1-#12G	B	3-#8-1-#10G	50/3	6925	MAU1	4
5	WAREHOUSE LIGHTS	2000	20/1	2-#12-1-#12G	C			6925		6
7	OVERHEAD DOOR	200	20/3	4-#10-1-#12G	A			6925		8
9		200			B					10
11		200			C					12
13					A					14
15					B					16
17					C					18
19					A					20
21					B					22
23					C					24
25					A					26
27					B					28
29					C					30
31					A					32
33					B					34
35					C	3-#8,1#10G	50/3	1000	TRANSFORMER	36
37					A		-	800	TRANSFORMER	38
39					B		-	600	TRANSFORMER	40
41					C		-			42

NOTES:
1 NEMA 1 ENCLOSURE
2 PROVIDE BOLT ON BREAKERS
3

LOAD SUMMARY	CONN	NEC	DEM	LOAD BALANCE PER PHASE		
1-LIGHTING	29375	1.25	36718.75	PHASE A		11925
2-RECEPTACLES	2400	NEC	2400	PHASE B		9725
3-KITCHEN	0	0.65	0	PHASE C		10125
4-HVAC	0	1	0	LOWEST PHASE PLUS 10%		
5-NON-CONT	0	1	0	9725	+ 10%	10697.5
LARGEST MOTOR	0	0.25	0	REBALANCE LOADS		
TOTAL VA	31775		39118.75			
TOTAL AMPS	38.2		47.1			

PANEL: LC 100 MB 120/ 208 V, 3PH, 4W.+GRND. **NEW PANEL**

CCT	SERVES	VA	OCP	WIRE	PHASE	WIRE	OCP	VA	SERVES	CCT
1	DOCK POWER	800	20/1	2-#12,1-#12G	A	2-#12,1-#12G	20/1	200	GFCI RECEP	2
3	DOCK POWER	800	20/1	2-#12,1-#12G	B	2-#12,1-#12G	20/1		SPARE	4
5	SPARE		20/1		C	2-#12,1-#12G	20/1		SPARE	6
7	SPARE		20/1		A	2-#12,1-#12G	20/1		SPARE	8
9	SPARE		20/1		B	2-#12,1-#12G	20/1		SPARE	10
11	SPARE		20/1		C	2-#12,1-#12G	20/1		SPARE	12
13	SPACE				A				SPACE	14
15	SPACE				B	-			SPACE	16
17	SPACE				C	-			SPACE	18
19	SPACE				A	-			SPACE	20
21	SPACE				B	-			SPACE	22
23	SPACE			-	C	-			SPACE	24
25	SPACE			--	A	--			SPACE	26
27	SPACE			--	B	--			SPACE	28
29	SPACE			--	C	--			SPACE	30
31	SPACE			--	A	-			SPACE	32
33	SPACE			--	B	--			SPACE	34
35	SPACE			--	C	--			SPACE	36
37	SPACE			-	A	-			SPACE	38
39	SPACE			--	B	--			SPACE	40
41	SPACE			--	C	--			SPACE	42

NOTES:
1 NEMA 1 ENCLOSURE
2 PROVIDE BOLT ON BREAKERS
3

LOAD SUMMARY	CONN	NEC	DEM	LOAD BALANCE PER PHASE		
1-LIGHTING	0	1.25	0	PHASE A		1000
2-RECEPTACLES	1800	NEC	1800	PHASE B		800
3-KITCHEN	0	0.65	0	PHASE C		0
4-HVAC	0	1	0	LOWEST PHASE PLUS 10%		
5-NON-CONT	0	1	0	0	+ 10%	0
LARGEST MOTOR	0	0.25	0	REBALANCE LOADS		
TOTAL VA	1800		1800			
TOTAL AMPS	5.0		5.0			

PANEL: HD 100 MLO 277/ 480 V, 3PH, 4W.+GRND. **NEW PANEL**

CCT	SERVES	VA	OCP	WIRE	PHASE	WIRE	OCP	VA	SERVES	CCT
1	WAREHOUSE LIGHTS	2000	20/1	2-#12,1-#12G	A	2-#12,1-#12G	20/1	2000	WAREHOUSE LIGHTS	2
3	WAREHOUSE LIGHTS	2000	20/1	2-#12-1-#12G	B	3-#8-1-#10G	50/3	6925	MAU1	4
5	WAREHOUSE LIGHTS	2000	20/1	2-#12-1-#12G	C			6925		6
7					A			6925		8
9					B					10
11					C					12
13					A					14
15					B					16
17					C					18
19					A					20
21					B					22
23					C					24
25					A					26
27					B					28
29				---	C					30
31				--	A					32
33				--	B					34
35				---	C					36
37					A	3-#8,1#10G	50/3	1000	TRANSFORMER	38
39					B		-	800	TRANSFORMER	40
41					C		-	800	TRANSFORMER	42

NOTES:
1 NEMA 1 ENCLOSURE
2 PROVIDE BOLT ON BREAKERS
3

LOAD SUMMARY	CONN	NEC	DEM	LOAD BALANCE PER PHASE		
1-LIGHTING	28775	1.25	35968.75	PHASE A		11925
2-RECEPTACLES	0	NEC	0	PHASE B		9725
3-KITCHEN	0	0.65	0	PHASE C		9725
4-HVAC	0	1	0	LOWEST PHASE PLUS 10%		
5-NON-CONT	0	1	0	9725	+ 10%	10697.5
LARGEST MOTOR	0	0.25	0	REBALANCE LOADS		
TOTAL VA	28775		35968.75			
TOTAL AMPS	34.6		43.3			

PANEL: LD 100 MB 120/ 208 V, 3PH, 4W.+GRND. **NEW PANEL**

CCT	SERVES	VA	OCP	WIRE	PHASE	WIRE	OCP	VA	SERVES	CCT
1	DOCK RECEP	800	20/1	2-#12,1-#12G	A	2-#12,1-#12G	20/1	200	GFCI	2
3	DOCK RECEP	800	20/1	2-#12,1-#12G	B		20/1		SPARE	4
5	DOCK RECEP	800	20/1	2-#12,1-#12G	C		20/1		SPARE	6
7	SPARE		20/1		A	-	20/1		SPARE	8
9	SPARE		20/1		B	-	20/1		SPARE	10
11	SPARE		20/1	-	C	-	20/1		SPARE	12
13	SPACE		20/1	-	A	-	20/1		SPACE	14
15	SPACE		20/1	-	B	-	20/1		SPACE	16
17	SPACE		20/1	-	C	-	20/1		SPACE	18
19	SPACE		20/1	-	A	-	20/1		SPACE	20
21	SPACE		20/1	-	B	-	20/1		SPACE	22
23	SPACE		20/1	-	C	-	20/1		SPACE	24
25	SPACE		20/1	--	A	--	20/1		SPACE	26
27	SPACE		20/1	--	B	--	20/1		SPACE	28
29	SPACE		20/1	--	C	--	20/1		SPACE	30
31	SPACE		20/1	--	A	-	20/1		SPACE	32
33	SPACE		20/1	--	B	--	20/1		SPACE	34
35	SPACE		20/1	--	C	--	20/1		SPACE	36
37	SPACE		20/1	-	A	-	20/1		SPACE	38
39	SPACE		20/1	--	B	--	20/1		SPACE	40
41	SPACE		20/1	--	C	--	20/1		SPACE	42

NOTES:
1 NEMA 1 ENCLOSURE
2 PROVIDE BOLT ON BREAKERS
3

LOAD SUMMARY	CONN	NEC	DEM	LOAD BALANCE PER PHASE		
1-LIGHTING	0	1.25	0	PHASE A		1000
2-RECEPTACLES	1800	NEC	1800	PHASE B		800
3-KITCHEN	0	0.65	0	PHASE C		800
4-HVAC	0	1	0	LOWEST PHASE PLUS 10%		
5-NON-CONT	0	1	0	800	+ 10%	880
LARGEST MOTOR	0	0.25	0	REBALANCE LOADS		
TOTAL VA	1800		1800			
TOTAL AMPS	5.0		5.0			

CURRAN ARCHITECTURE
5719 LAWTON LOOP E. DR. #212
INDIANAPOLIS, IN 46216
O :: 317 . 288 . 0681
F :: 317 . 288 . 0753

SCANNELL PROPERTIES

CERTIFICATION

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS
BUILDING A LOT I

NW CORNER OF
NE TUDOR RD & MAIN ST
LEE'S SUMMIT, MO 64086

HERITAGE ELECTRIC, L.L.C.
841 N. MARTWAY
Olathe, Kansas
phone (913) 663 1200
fax (913) 663 2025

HERITAGE ELECTRIC

STATE OF MISSOURI
JOHN WILLIAM CASBURN
NUMBER E-14378
PROFESSIONAL ENGINEER

[illegible]

4/ 26/22

ISSUE DATES

PERMIT SET	02.18.22

210300

E7.00

FIRE PROTECTION PLANS

F. E. MORAN, INC. FIRE PROTECTION
16815 COLLEGE BLVD.
LENEXA, KS 66219
(217) 356-0700 (217) 356-0777 FAX

MISSOURI COA: E-2022012018

SCOPE OF WORK

SCOPE OF WORK:
** FURNISH & INSTALL (11) NEW WET PIPE SPRINKLER SYSTEM FOR THE NEW BUILDING.
** FURNISH & INSTALL A NEW FIRE PUMP AND ACCESSORIES
** FIRE PUMP ROOM POINT OF CONNECTION (START OF CONTRACT): 10'' FLANGE, 12'' ABOVE THE FINISHED FLOOR IN THE FIRE PUMP ROOM.
**FEED RISER POINT OF CONNECTION (START OF CONTRACT): 8'' FLANGE, 12'' ABOVE THE FINISHED FLOOR IN THE FIRE PUMP ROOM. TWO LOCATED ON EACH END OF THE BUILDING AND ONE ON EACH SIDE.
** INSTALL (18) 2½'' HOSE VALVES LOCATED AT MAN DOORS AND FED FROM ADJACENT SYSTEMS

NOT INCLUDED:
** WIRING OF ELECTRICAL DEVICES
** FIRE EXTINGUISHERS
** STANDPIPES AND HOSE STATIONS
** FIRE PUMP CONTROLLER AUTO TRANSFER SWITCH
** UNDERGROUND PIPING AND TESTING
** COLUMN SPRINKLERS
** SEISMIC BRACING
** PAINTED PIPING
** CONCRETE PADS
** COMPONENT IDENTIFICATION BEYOND NFPA 13 REQUIREMENTS
** ACCESS PANELS
** CUTTING AND PATCHING
** PIPE SLEEVES
** WALL POST INDICATOR VALVE
** PUMP CONTROLLER AUTOMATIC TRANSFER SWITCH

CODE INFORMATION

CODE INFORMATION:
**NFPA 13, 2016 EDITION: INSTALLATION OF SPRINKLER SYSTEMS
**NFPA 20, 2016 EDITION: INSTALLATION OF CENTRIFUGAL FIRE PUMPS
**INTERNATIONAL BUILDING & FIRE CODE, 2018 EDITION
**LOCAL AMENDMENTS

BUILDING INFO:
IBC OCCUPANCY CLASSIFICATION: S-1
IBC CONSTRUCTION TYPE: II-B
IBC SEISMIC DESIGN CATEGORY: B
HIGHEST FLOOR ELEVATION FROM FIRE DEPARTMENT VEHICLE ACCESS: GRADE
NUMBER OF STORIES: 1
BUILDING AREA: 433,364 S.F.

GENERAL REQUIREMENTS

** SUPPLY A SPARE SPRINKLER CABINET WITH WRENCH FOR EACH SPRINKLER TYPE AS REQUIRED BY NFPA 13.
** IDENTIFY ALL HYDRAULICALLY CALCULATED SYSTEMS WITH A PERMANENTLY MARKED AND WEATHERPROOF SIGN.
** ALL NEW PIPING OR PIPING MODIFICATIONS WHICH AFFECT MORE THAN 20 SPRINKLERS SHALL BE HYDROSTATICALLY TESTED AT 200 PSI OR 50 PSI OVER THE SYSTEM WORKING PRESSURE. THE SYSTEM SHALL MAINTAIN THIS PRESSURE WITHOUT LOSS FOR 2 HOURS.
** ** ALL NEW PIPING OR PIPING MODIFICATIONS WHICH AFFECT 20 SPRINKLERS OR LESS, SHALL BE TESTED AT THE SYSTEM WORKING PRESSURE.
** ALL PIPING MODIFICATIONS WHICH CANNOT BE ISOLATED FROM THE EXISTING SYSTEM, SHALL BE TESTED AT THE SYSTEM WORKING PRESSURE.
** THE LOCAL FIRE/BUILDING INSPECTOR IS TO BE NOTIFIED 48 HOURS IN ADVANCE OF ALL TESTING.
UNDERGROUND TESTING AND FLUSHING:
** ALL UNDERGROUND PIPE SHALL BE TESTED AND FLUSHED BY THE INSTALLING CONTRACTOR AS REQUIRED BY NFPA 24 BEFORE ANY OVERHEAD SPRINKLER PIPING IS CONNECTED.

VALVES

** ALL VALVES CONTROLLING WATER FLOW TO SPRINKLERS SHALL BE INDICATING & SUPERVISED.
** ALL VALVES SHALL BE ACCESSIBLE AT ALL TIMES AND PERMANENTLY IDENTIFIED.
** THE IDENTIFICATION OF CONTROL VALVES SHALL INCLUDE A DESCRIPTION OR DIAGRAM OF WHAT THEY CONTROL.
** ALL TRAPPED PORTIONS OF SPRINKLER PIPING SHALL BE PROVIDED WITH A LOW POINT DRAIN AS REQUIRED BY NFPA 13.

PIPE HANGERS

** 2½''-6'' HANGER RINGS ARE TO BE ADJUSTABLE SWIVEL RINGS, ZINC PLATED, MANUFACTURED TO ANSI/MSS SP-69 STANDARDS.
** 2½''-6'' CLEVIS HANGERS ARE TO BE ADJUSTABLE CLEVIS RINGS, PLAIN, MANUFACTURED TO ANSI/MSS SP-69 STANDARDS.
** HANGERS AND SEISMIC BRACING ARE TO BE INSTALLED PER NFPA 13 REQUIREMENTS.
** HANGER ROD SIZES AND LOCATIONS ARE TO BE AS REQUIRED BY NFPA 13.

WET SYSTEM PIPE & FITTINGS

WET-PIPE SPRINKLER SYSTEM BLACK PIPE:
** 1'' LINE PIPING SHALL BE BLACK STEEL SCH. 40 PIPE, MANUFACTURED TO ASTM A53 OR A795 STANDARDS.
** 2½'' LINE PIPING SHALL BE BLACK STEEL SCH. 7 PIPE, MANUFACTURED TO ASTM A795 STANDARDS.

** 8'' MAIN PIPING SHALL BE BLACK STEEL SCH. 10 PIPE, MANUFACTURED TO ASTM A135 STANDARDS.
** 2''-6'' MAIN PIPING SHALL BE BLACK STEEL SCH. 7 PIPE, MANUFACTURED TO ASTM A795 STANDARDS.

WET-PIPE SPRINKLER SYSTEM BLACK FITTINGS:
** 1'' BRANCH LINE FITTINGS SHALL BE BLACK DUCTILE IRON THREADED, CLASS 150 STANDARD, MANUFACTURED PER ANSI/ASME B16.3, U.L. LISTED FOR FIRE PROTECTION USE UP TO 175 PSI WORKING PRESSURE.
** 1/2'' - 3'' BRANCH LINE PIPE OUTLETS TO BE WELDED MANUFACTURED TO ASTM A53 & ANSI B1.20.1 STANDARDS.
** 1 1/4''-3'' BRANCH LINE FITTINGS SHALL BE STANDARD GROOVED DUCTILE IRON, MANUF. TO ASTM A536 STANDARDS.

** 2½''-8'' MAIN PIPE BRANCH OUTLETS TO BE WELDED MANUFACTURED TO ASTM A53 & ANSI B1.20.1 STANDARDS.
** 2½''-8'' MAIN PIPE FITTINGS SHALL BE STANDARD GROOVED DUCTILE IRON, MANUF. TO ASTM A536 STANDARDS.
** 2½''-8'' MAIN PIPE FITTINGS SHALL BE STANDARD GROOVED STEEL, MANUF. TO ASTM A958/A53 STANDARDS.

DESIGN CRITERIA - ESFR

SPRINKLER SYSTEM DESIGN CRITERIA (ESFR)-PALLETIZED/SOLID-PILE/RACK STORAGE:

FROM NFPA 13, 2016 EDITION TABLE 16.3.3.1
COMMODITY CLASSIFICATION: CLASS I, II, III OR IV, ENCAPSULATED OR UNENCAPSULATED, NO OPEN TOP CONTAINERS
STORAGE ARRANGEMENT: PALLETIZED/SOLID-PILE/SINGLE & DOUBLE ROW RACKS WITH NO SOLID SHELVING
CONSTRUCTION TYPE: ALL TYPES
MAXIMUM STORAGE HEIGHT: 35 FEET
MAXIMUM CEILING/ROOF HEIGHT: 40 FEET
MINIMUM CLEARANCE FROM SPRINKLER DEFLECTOR TO TOP OF STORAGE: 36 INCHES
SPRINKLER TYPE: ESFR (EARLY SUPPRESSION FAST-RESPONSE)
SPRINKLER K-FACTOR: 16.8
SPRINKLER TEMPERATURE RATING: 205°F
SPRINKLER ORIENTATION: PENDENT
MAXIMUM SPRINKLER DEFLECTOR DISTANCE BELOW CEILING: 14 INCHES
MINIMUM SPRINKLER DEFLECTOR DISTANCE BELOW CEILING: 6 INCHES
MAXIMUM SPRINKLER SPACING/AREA: 10 FEET/100 S.F.
MINIMUM SPRINKLER SPACING: 8 FEET/64 S.F.
TYPE OF SYSTEM: WET
NUMBER OF DESIGN SPRINKLERS: 12
MINIMUM SPRINKLER OPERATING PRESSURE: 52 PSI
INSIDE HOSE STREAM ALLOWANCE: 0 GPM
OUTSIDE HOSE STREAM ALLOWANCE: 250 GPM
TOTAL HOSE STREAM ALLOWANCE: 250 GPM
IN-RACK SPRINKLERS: NO

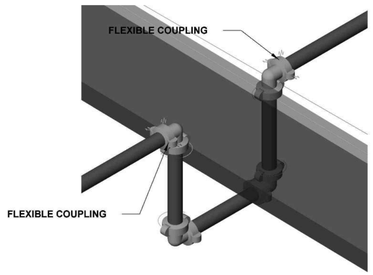
SPRINKLER SYSTEM DESIGN CRITERIA (ESFR)-PALLETIZED/SOLID-PILE/RACK STORAGE:

FROM NFPA 13, 2016 EDITION TABLE 16.3.3.1
COMMODITY CLASSIFICATION: CLASS I, II, III OR IV, ENCAPSULATED OR UNENCAPSULATED, NO OPEN TOP CONTAINERS
STORAGE ARRANGEMENT: PALLETIZED/SOLID-PILE/SINGLE & DOUBLE ROW RACKS WITH NO SOLID SHELVING
CONSTRUCTION TYPE: ALL TYPES
MAXIMUM STORAGE HEIGHT: 40 FEET
MAXIMUM CEILING/ROOF HEIGHT: 45 FEET
MINIMUM CLEARANCE FROM SPRINKLER DEFLECTOR TO TOP OF STORAGE: 36 INCHES
SPRINKLER TYPE: ESFR (EARLY SUPPRESSION FAST-RESPONSE)
SPRINKLER K-FACTOR: 22.4
SPRINKLER TEMPERATURE RATING: 205°F
SPRINKLER ORIENTATION: PENDENT
MAXIMUM SPRINKLER DEFLECTOR DISTANCE BELOW CEILING: 18 INCHES
MINIMUM SPRINKLER DEFLECTOR DISTANCE BELOW CEILING: 6 INCHES
MAXIMUM SPRINKLER SPACING/AREA: 10 FEET/100 S.F.
MINIMUM SPRINKLER SPACING: 8 FEET/64 S.F.
TYPE OF SYSTEM: WET
NUMBER OF DESIGN SPRINKLERS: 12
MINIMUM SPRINKLER OPERATING PRESSURE: 40 PSI
INSIDE HOSE STREAM ALLOWANCE: 0 GPM
OUTSIDE HOSE STREAM ALLOWANCE: 250 GPM
TOTAL HOSE STREAM ALLOWANCE: 250 GPM
IN-RACK SPRINKLERS: NO

SYSTEMS SHALL BE WET ONLY.

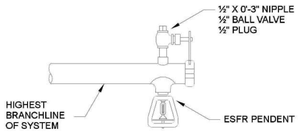
ROOF OR CEILING SLOPES SHALL NOT EXCEED A PITCH OF 2:12.

TOTAL SYSTEM SIZE SHALL NOT EXCEED 40,000 S.F. COMBINED HIGH PILED/RACK STORAGE & LIGHT/ORDINARY HAZARD SYSTEMS MAY COVER UP TO 52,000 S.F.



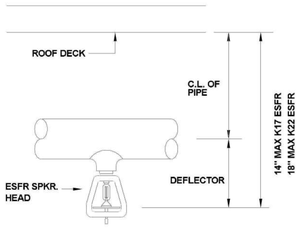
TYPICAL LINE AT EXPANSION JOINT

N.T.S.



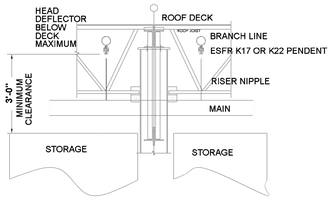
MANUAL AIR VENT DETAIL

N.T.S.



ESFR PENDENT DETAIL

N.T.S.



STORAGE CLEARANCE

N.T.S.

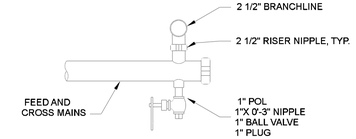
HANGER INSTALLATION REQUIREMENTS

MAXIMUM DISTANCE BETWEEN HANGERS								
NOMINAL PIPE SIZE	3/4''	1''	1-1/4''	1-1/2''	2''	2-1/2''	3''	4''
BLAZEMASTER CPVC	5' 6''	6' 0''	6' 6''	7' 0''	8' 0''	9' 0''	10' 0''	N/A
THREADABLE LIGHTWALL	N/A	12' 0''	12' 0''	12' 0''	12' 0''	12' 0''	12' 0''	N/A
STEEL PIPE (7/10/ 40)	N/A	12' 0''	12' 0''	15' 0''	15' 0''	15' 0''	15' 0''	15' 0''

THE UNSUPPORTED LENGTH BETWEEN THE END SPRINKLER AND THE LAST HANGER ON THE LINE SHALL NOT EXCEED 36'' FOR 1'' PIPE, 48'' FOR 1 1/4'' PIPE AND 60'' FOR 1 1/2'' PIPE OR LARGER

THE CUMULATIVE HORIZONTAL LENGTH OF AN UNSUPPORTED ARMOVER TO A SPRINKLER, SPRINKLER DROP, OR SPRIG-UP SHALL NOT EXCEED 24''

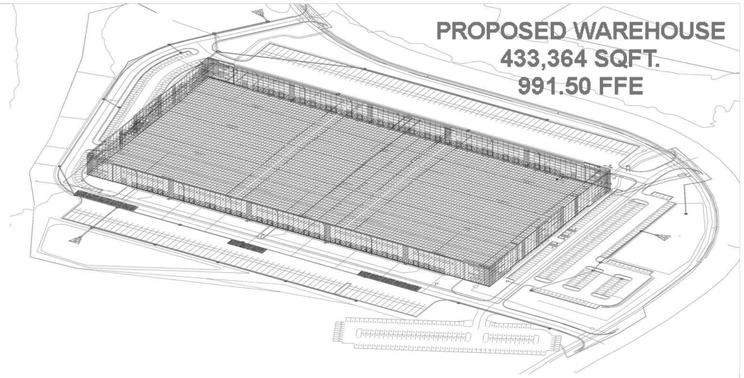
NOMINAL PIPE SIZE	SCHEDULE 40			SCHEDULE 10			EDDYFLOW		
	O.D.	I.D.	WALL THICKNESS	O.D.	I.D.	WALL THICKNESS	O.D.	I.D.	WALL THICKNESS
1	1.315	1.049	.133	1.315	1.097	.109	1.315	1.191	.062
1¼	1.660	1.380	.140	1.660	1.442	.109	1.660	1.536	.062
1½	1.900	1.610	.145	1.900	1.682	.109	1.900	1.728	.086
2	2.375	2.067	.154	2.375	2.157	.109	2.375	2.203	.086
2½	2.875	2.469	.203	2.875	2.635	.120	2.875	2.703	.086
3	3.500	3.068	.216	3.500	3.260	.120	3.500	3.314	.093
4	4.500	4.026	.237	4.500	4.260	.120	4.500	4.310	.095
5	5.563	5.047	.258	5.563	5.295	.134	----	----	----
6	6.625	6.065	.280	6.625	6.357	.134	----	----	----
8	8.625	7.981	.322	8.625	8.249	.188	----	----	----
10	10.750	10.020	.365	10.750	10.370	.188	----	----	----

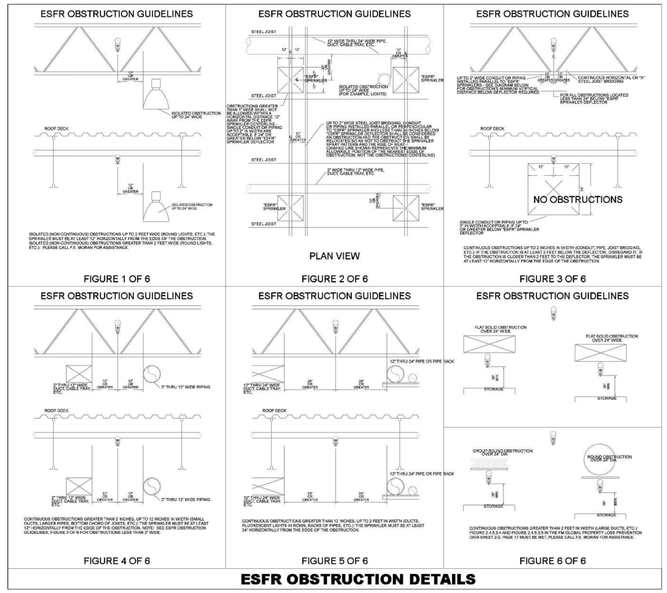


TYPICAL DRAIN DETAIL

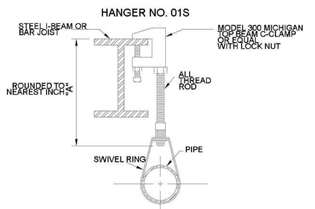
N.T.S.

DRAWING SYMBOLS
PIPING CENTERLINES
★ 0'' TS ℄ TO TOP OF STEEL OR ROOF DECK
★ 0'' TS ℄ TO FLOOR
HANGER LOCATION
HYDRAULIC NODE
FLUSH MOUNT FDC
STD. PROJECTION FDC
STORZ FDC
ELECTRIC ALARM BELL
HOSE STATION





ESFR OBSTRUCTION DETAILS



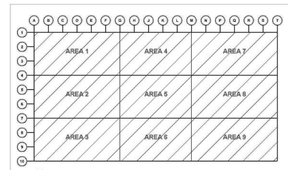
TOP BEAM C-CLAMP DETAIL

N.T.S.

NICET #156488 CERTIFIED

JASIEL COLBERT
NICET LEVEL 1
AUTO. SPRINKLER SYS. LAYOUT
VALID THROUGH MARCH 03, 2025

DRAWING INDEX



KEY PLAN

CURRAN
ARCHITECTURE
5719 LAWTON LOOP E. DR. #212
INDIANAPOLIS, IN 46216
O :: 317 . 288 . 0681
F :: 317 . 288 . 0753

SCANNELL PROPERTIES

CERTIFICATION

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING A LOT 1
NW CORNER OF
NE TUDOR RD & MAIN ST
LEE'S SUMMIT, MO 64086

STATE OF MISSOURI
MICHELLE A LOPEZ
NUMBER PE-2022007904
04-25-22
PROFESSIONAL ENGINEER
Digitally signed by Michelle A Lopez
Contact Info: (317)468-3721
Date: 2022.04.25 11:23:08-04'00'

ISSUE DATES

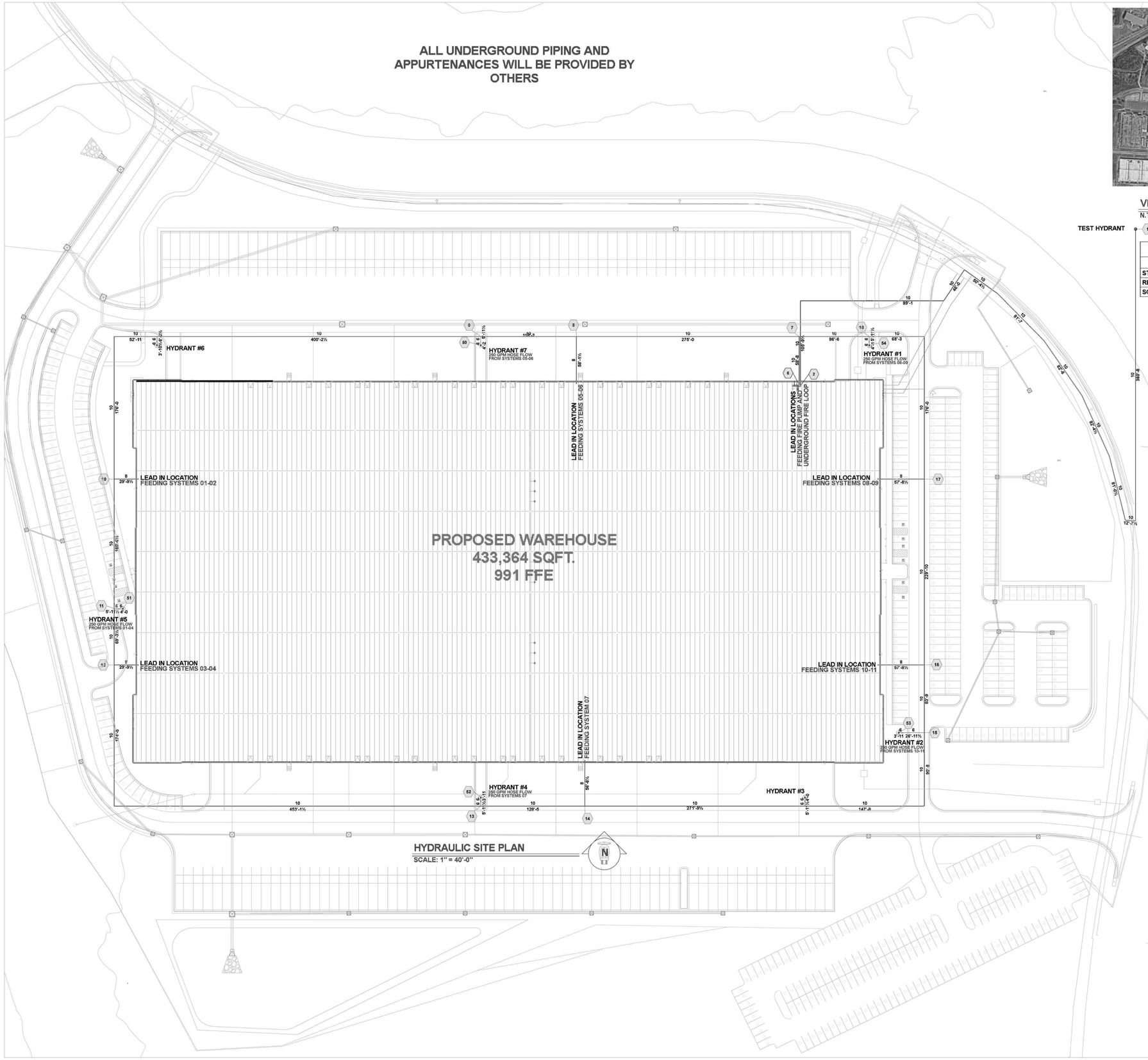
PERMIT SET	02.18.22

210300

FP0.0

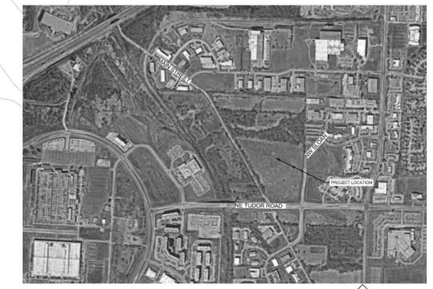
SYSTEM NOTES

ALL UNDERGROUND PIPING AND APPURTENANCES WILL BE PROVIDED BY OTHERS



HYDRAULIC SITE PLAN

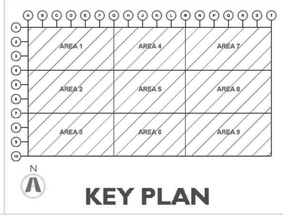
SCALE: 1" = 40'-0"



VICINITY SITE MAP

N.T.S.

WATER FLOW TEST DATA	
DATE	03.31.2022
STATIC PRESSURE	97 PSI (1002 ELEV.)
RESIDUAL PRESSURE	88 PSI @ 1900 GPM
SOURCE INFO	LEE'S SUMMIT WATER UTILITIES



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STATE OF MISSOURI
MICHELLE A. LOPEZ
NUMBER PE-2022007904
04-25-22
PROFESSIONAL ENGINEER

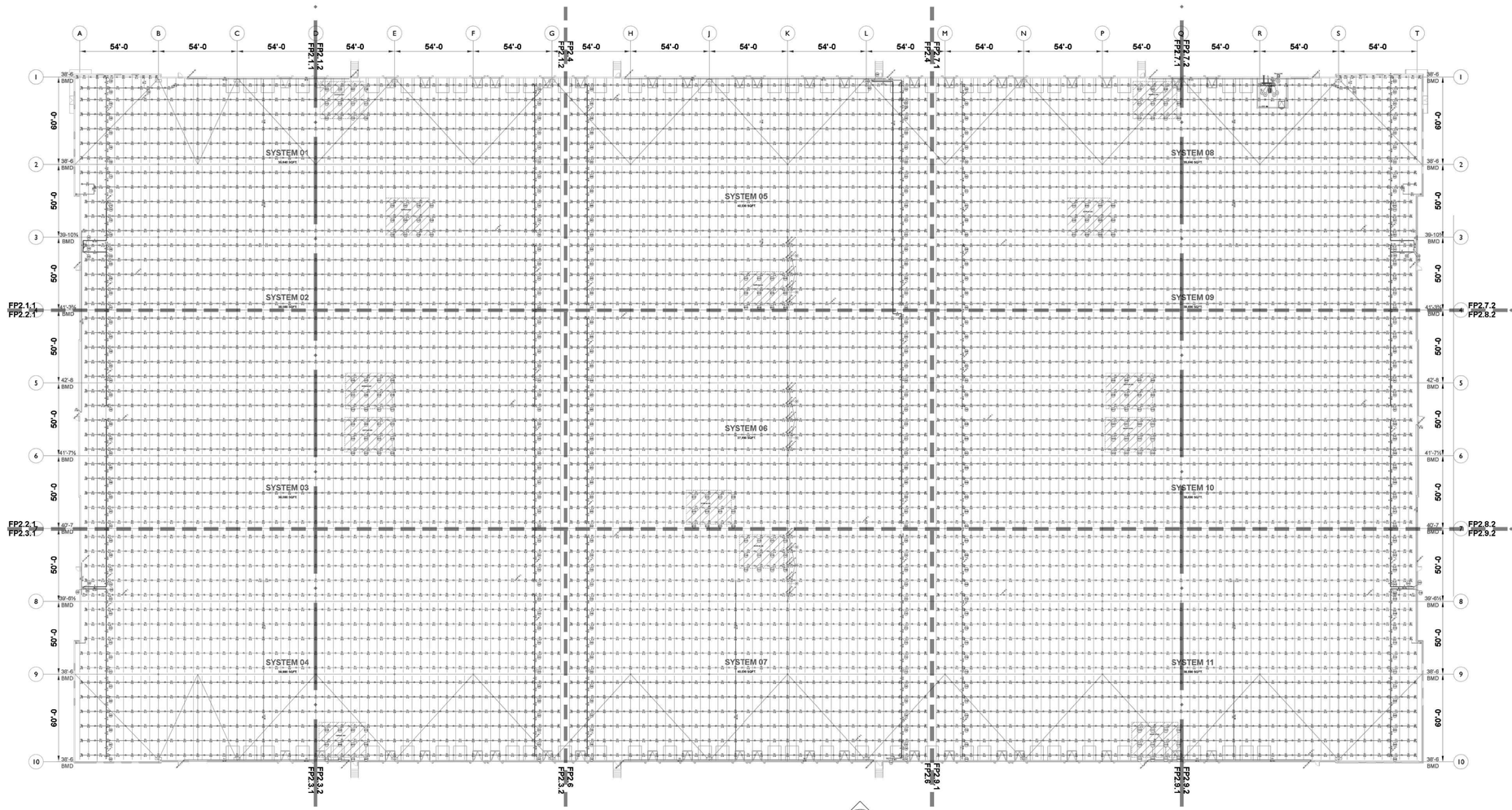
ISSUE DATES

PERMIT SET	02.18.22

210300

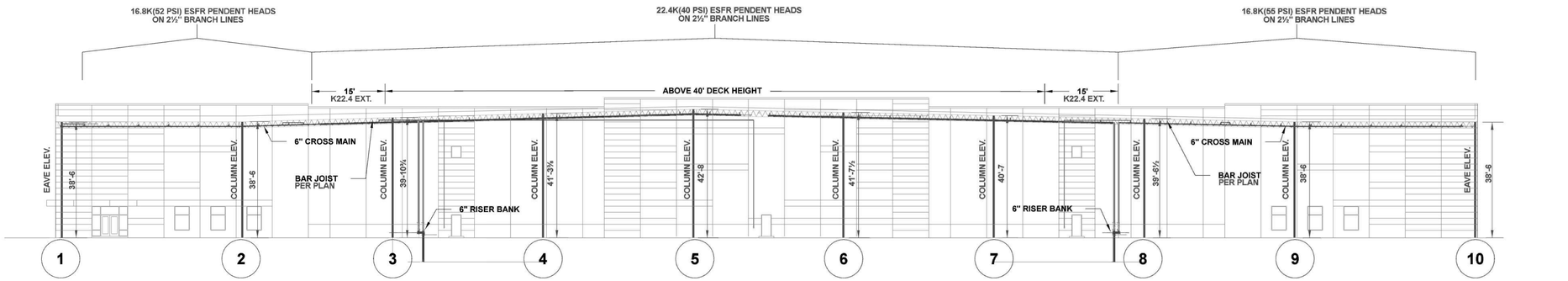
FP1.0

HYDRAULIC SITE PLAN



OVERHEAD PIPING

SCALE: 1" = 30'-0"

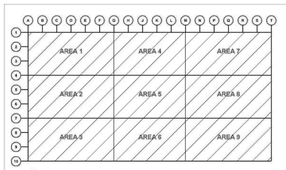


EAST WALL VIEW (SECTION A-A)

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

Sprinkler Legend

SYMBOL	QUANTITY	MANUFACTURER	SIN	MODEL	K-FACTOR	TYPE	SIZE	RESPONSE	FINISH	TEMPERATURE
▲	2054	VICTAULIC	V4702	ESFR	16.8	PENDENT	¾	QUICK	BRASS	200°F
◇	4	VICTAULIC	V3406	V34	8	PENDENT	½	QUICK	BRASS	200°F
◆	2754	VICTAULIC	V4902	ESFR	22.4	PENDENT	1	FAST	BRASS	212°F
	TOTAL = 4812									



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PROFESSIONAL ENGINEER

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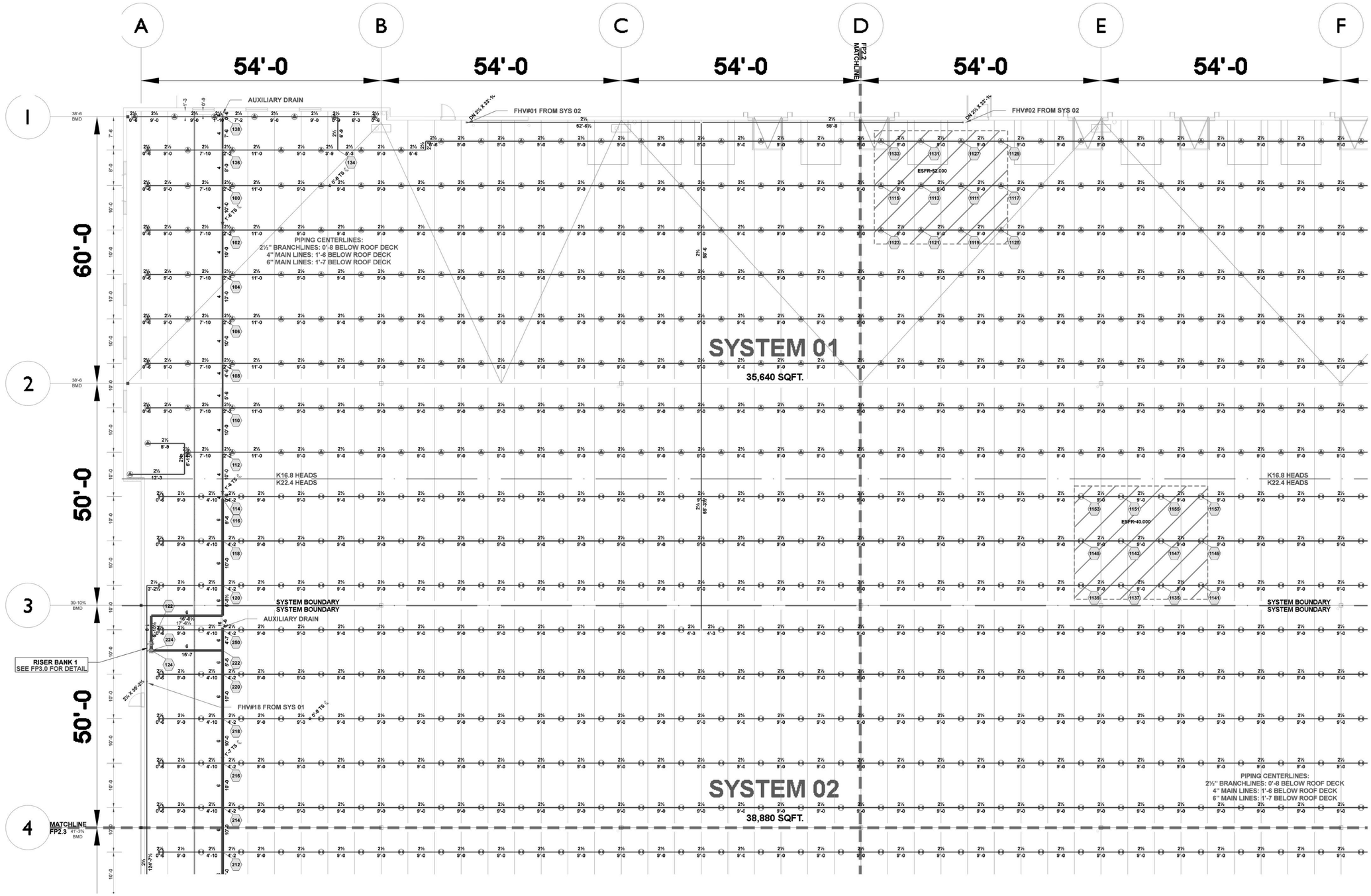
FP2.0

OVERHEAD PIPING LAYOUT



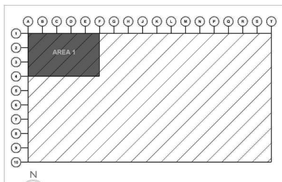
Hydraulic Information	
Remote Area 01 (K16.8)	
OCCUPANCY CLASSIFICATION	ESFR
MIN. END HEAD PRESSURE	52.000 (ESFR)
TOTAL HOSE STREAMS	250.00
TOTAL HEADS FLOWING	12
K-FACTOR	16.8
TOTAL WATER REQUIRED	1711.62
TOTAL PRESSURE REQUIRED	66.872
BASE OF RISER (GPM)	1711.62
BASE OF RISER (PSI)	66.872
SAFETY MARGIN (PSI)	+22.709 (25.4%)

Hydraulic Information	
Remote Area 01	
OCCUPANCY CLASSIFICATION	ESFR
MIN. END HEAD PRESSURE	40.000 (ESFR)
TOTAL HOSE STREAMS	250.00
TOTAL HEADS FLOWING	12
K-FACTOR	22.4
TOTAL WATER REQUIRED	1956.96
TOTAL PRESSURE REQUIRED	70.272
BASE OF RISER (GPM)	1956.96
BASE OF RISER (PSI)	70.272
SAFETY MARGIN (PSI)	+17.222 (19.7%)

AREA 1: SYSTEMS 01-02

SCALE: 3/32" = 1'-0"

Sprinkler Legend											
SYMBOL	QUANTITY	MANUFACTURER	SIN	MODEL	K-FACTOR	TYPE	SIZE	RESPONSE	FINISH	TEMPERATURE	NOTE
▲	2054	VICTAULIC	V4702	ESFR	16.8	PENDENT	¾	QUICK	BRASS	200°F	
⊗	4	VICTAULIC	V3406	V34	8	PENDENT	¾	QUICK	BRASS	200°F	
◆	2754	VICTAULIC	V4902	ESFR	22.4	PENDENT	1	FAST	BRASS	212°F	
	TOTAL = 4812										



KEY PLAN

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5719 LAWTON LOOP E. DR. #212
INDIANAPOLIS, IN 46216
O :: 317 . 288 . 0681
F :: 317 . 288 . 0753

SCANNELL PROPERTIES

CERTIFICATION

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING A LOT 1

NW CORNER OF
NE TUDOR RD & MAIN ST
LEE'S SUMMIT, MO 64086

STATE OF MISSOURI
MICHELLE A. LOPEZ
NUMBER PE-2022007904
PROFESSIONAL ENGINEER
04-25-22

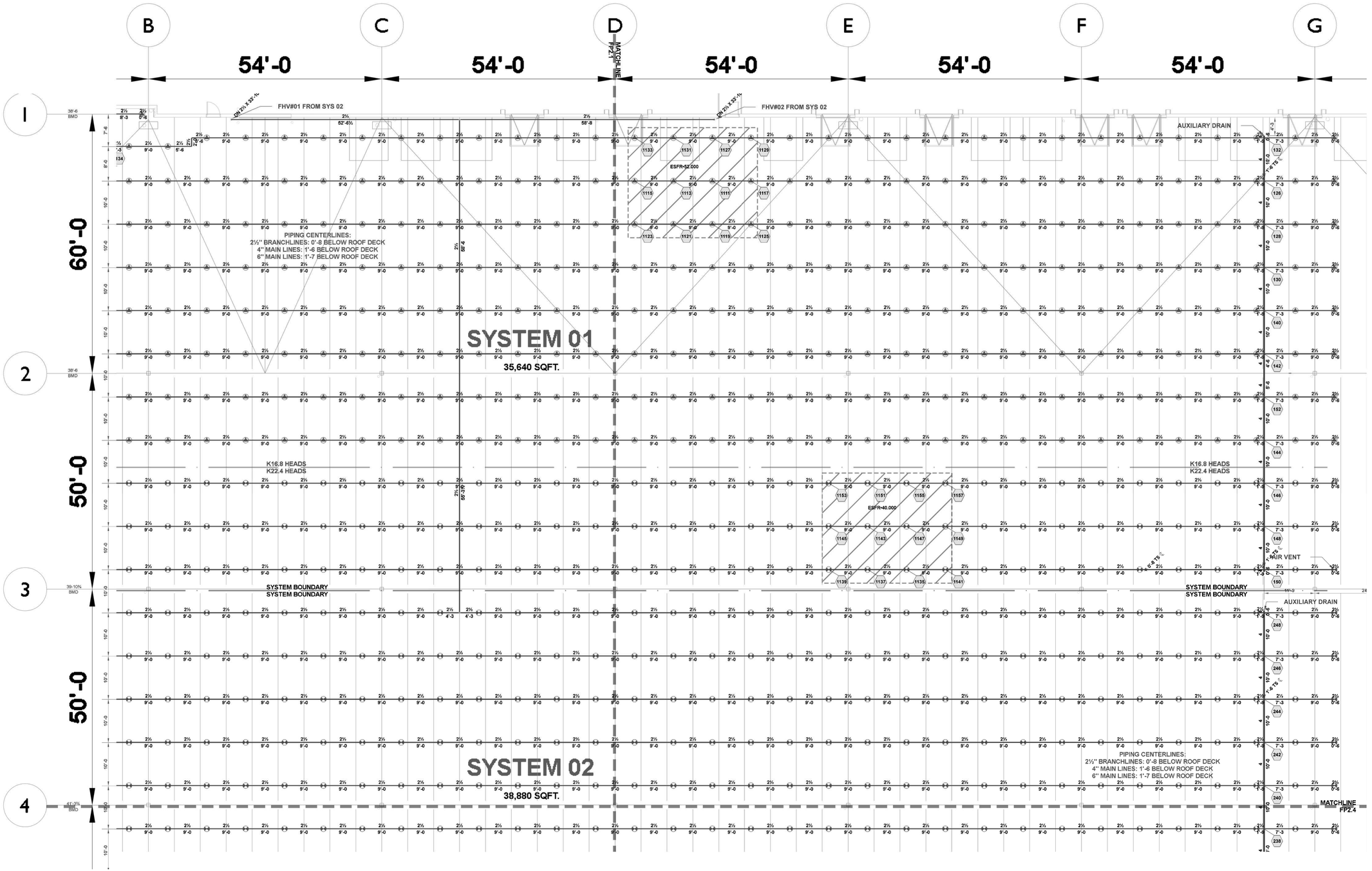
ISSUE DATES

PERMIT SET	02.18.22

210300

FP2.1.1

AREA 1: SYSTEMS 01-02



Hydraulic Information	
Remote Area 01 (K16.8)	
OCCUPANCY CLASSIFICATION	ESFR
MIN. END HEAD PRESSURE	52.000 (ESFR)
TOTAL HOSE STREAMS	250.00
TOTAL HEADS FLOWING	12
K-FACTOR	16.8
TOTAL WATER REQUIRED	1711.62
TOTAL PRESSURE REQUIRED	66.872
BASE OF RISER (GPM)	1711.62
BASE OF RISER (PSI)	66.872
SAFETY MARGIN (PSI)	+22.709 (25.4%)

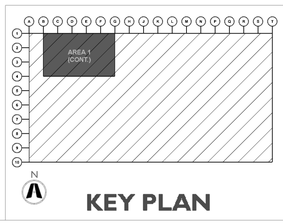
Hydraulic Information	
Remote Area 01	
OCCUPANCY CLASSIFICATION	ESFR
MIN. END HEAD PRESSURE	40.000 (ESFR)
TOTAL HOSE STREAMS	250.00
TOTAL HEADS FLOWING	12
K-FACTOR	22.4
TOTAL WATER REQUIRED	1956.96
TOTAL PRESSURE REQUIRED	70.272
BASE OF RISER (GPM)	1956.96
BASE OF RISER (PSI)	70.272
SAFETY MARGIN (PSI)	+17.222 (19.7%)

AREA 1 (CONT.): SYSTEMS 01-02

SCALE: 3/32" = 1'-0"

Sprinkler Legend

SYMBOL	QUANTITY	MANUFACTURER	SIN	MODEL	K-FACTOR	TYPE	SIZE	RESPONSE	FINISH	TEMPERATURE	NOTE
▲	2054	VICTAULIC	V4702	ESFR	16.8	PENDENT	¾	QUICK	BRASS	200°F	
⊗	4	VICTAULIC	V3406	V34	8	PENDENT	¾	QUICK	BRASS	200°F	
◆	2754	VICTAULIC	V4902	ESFR	22.4	PENDENT	1	FAST	BRASS	212°F	
	TOTAL = 4812										



KEY PLAN

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5719 LAWTON LOOP E. DR. #212
INDIANAPOLIS, IN 46216
O :: 317 . 288 . 0681
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SCANNELL PROPERTIES

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PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING A LOT 1

NW CORNER OF
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LEE'S SUMMIT, MO 64086

STATE OF MISSOURI
MICHELLE A LOPEZ
NUMBER PE-2022007904
04-25-22
PROFESSIONAL ENGINEER

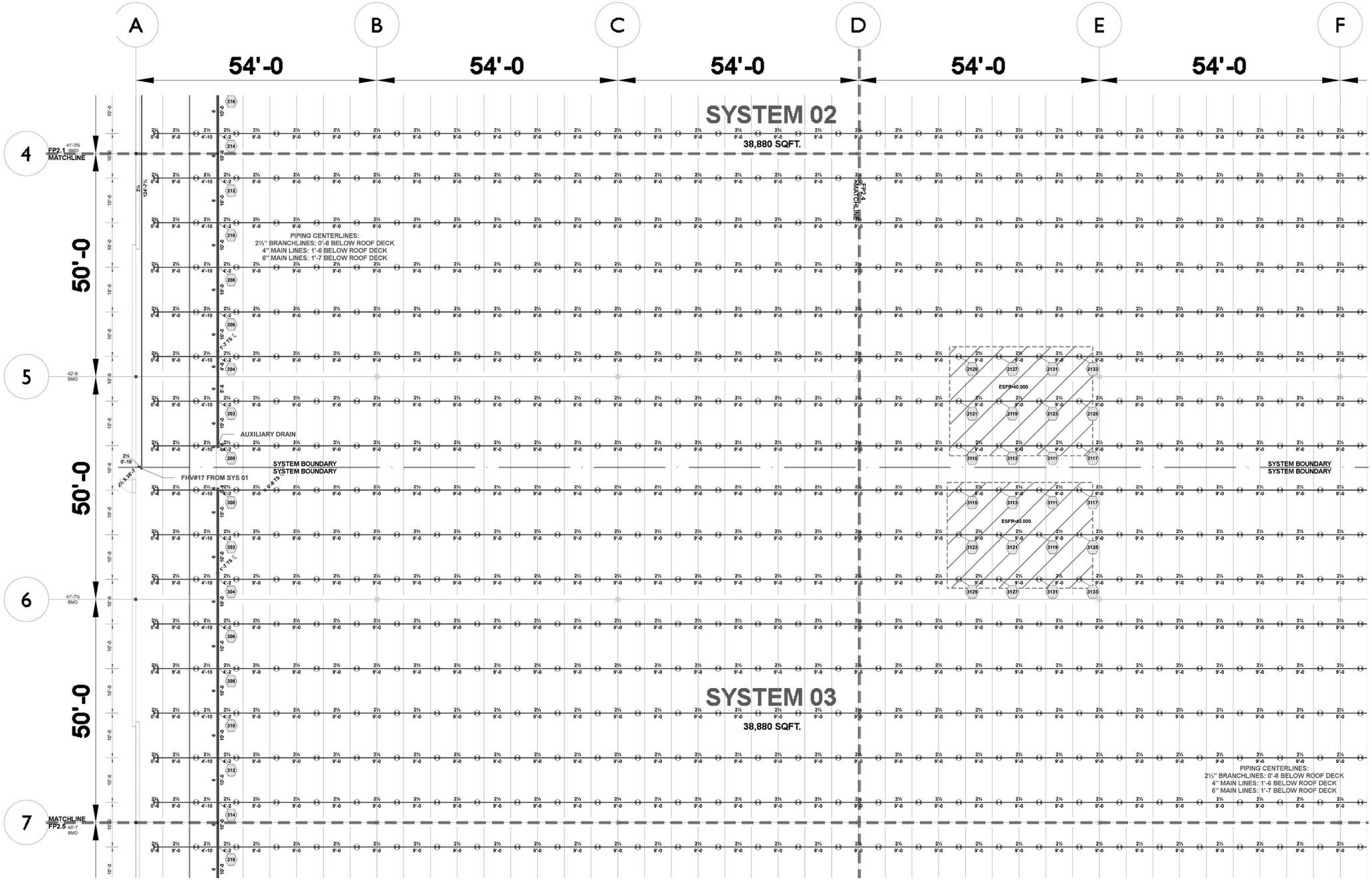
ISSUE DATES

PERMIT SET	02.18.22

210300

FP2.1.2

AREA 1 (CONT.): SYSTEMS 01-02



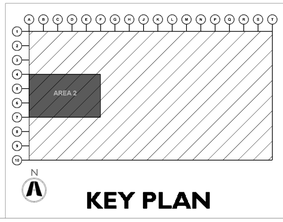
Hydraulic Information	
Remote Area 02	
OCCUPANCY CLASSIFICATION	ESFR
MIN. END HEAD PRESSURE	40.000 (ESFR)
TOTAL HOSE STREAMS	250.00
TOTAL HEADS FLOWING	12
K-FACTOR	22.4
TOTAL WATER REQUIRED	1956.70
TOTAL PRESSURE REQUIRED	66.023
BASE OF RISER (GPM)	1956.70
BASE OF RISER (PSI)	66.023
SAFETY MARGIN (PSI)	+21.474 (24.5%)

Hydraulic Information	
Remote Area 03	
OCCUPANCY CLASSIFICATION	ESFR
MIN. END HEAD PRESSURE	40.000 (ESFR)
TOTAL HOSE STREAMS	250.00
TOTAL HEADS FLOWING	12
K-FACTOR	22.4
TOTAL WATER REQUIRED	1958.59
TOTAL PRESSURE REQUIRED	65.780
BASE OF RISER (GPM)	1958.59
BASE OF RISER (PSI)	65.780
SAFETY MARGIN (PSI)	+21.700 (24.8%)

AREA 2: SYSTEMS 02-03

SCALE: 3/32" = 1'-0"

Sprinkler Legend											
SYMBOL	QUANTITY	MANUFACTURER	SIN	MODEL	K-FACTOR	TYPE	SIZE	RESPONSE	FINISH	TEMPERATURE	NOTE
	2054	VICTAULIC	V4702	ESFR	16.8	PENDENT	¾	QUICK	BRASS	200°F	
	4	VICTAULIC	V3406	V34	8	PENDENT	¾	QUICK	BRASS	200°F	
	2754	VICTAULIC	V4902	ESFR	22.4	PENDENT	1	FAST	BRASS	212°F	
	TOTAL = 4812										



KEY PLAN

CURRAN
ARCHITECTURE
5719 LAWTON LOOP E. DR. #212
INDIANAPOLIS, IN 46216
O :: 317 . 288 . 0681
F :: 317 . 288 . 0753

SCANNELL PROPERTIES

CERTIFICATION

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING A LOT I

NW CORNER OF
NE TUDOR RD & MAIN ST
LEE'S SUMMIT, MO 64086

STATE OF MISSOURI
MICHELLE A LOPEZ
NUMBER PE-2022007904
PROFESSIONAL ENGINEER
04-25-22

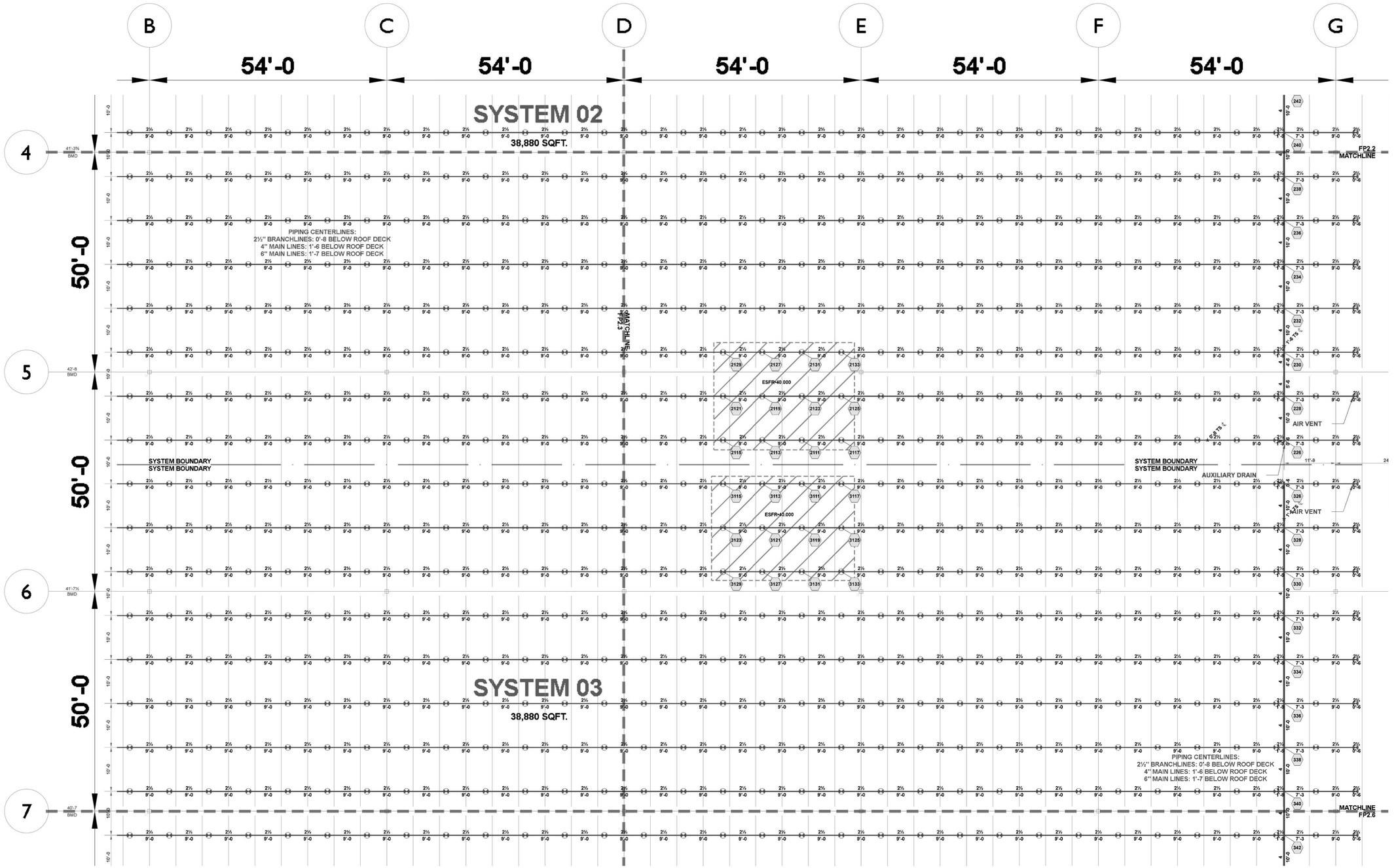
ISSUE DATES

PERMIT SET	02.18.22

210300

FP2.2.1

AREA 2: SYSTEM 02-03



Hydraulic Information	
Remote Area 02	
OCCUPANCY CLASSIFICATION	ESFR
MIN. END HEAD PRESSURE	40.000 (ESFR)
TOTAL HOSE STREAMS	250.00
TOTAL HEADS FLOWING	12
K-FACTOR	22.4
TOTAL WATER REQUIRED	1956.70
TOTAL PRESSURE REQUIRED	66.023
BASE OF RISER (GPM)	1956.70
BASE OF RISER (PSI)	66.023
SAFETY MARGIN (PSI)	+21.474 (24.5%)

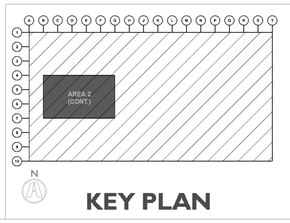
Hydraulic Information	
Remote Area 03	
OCCUPANCY CLASSIFICATION	ESFR
MIN. END HEAD PRESSURE	40.000 (ESFR)
TOTAL HOSE STREAMS	250.00
TOTAL HEADS FLOWING	12
K-FACTOR	22.4
TOTAL WATER REQUIRED	1958.59
TOTAL PRESSURE REQUIRED	65.780
BASE OF RISER (GPM)	1958.59
BASE OF RISER (PSI)	65.780
SAFETY MARGIN (PSI)	+21.700 (24.8%)

AREA 2(CONT): SYSTEMS 02-03

SCALE: 3/32" = 1'-0"

Sprinkler Legend

SYMBOL	QUANTITY	MANUFACTURER	SIN	MODEL	K-FACTOR	TYPE	SIZE	RESPONSE	FINISH	TEMPERATURE	NOTE
▲	2054	VICTAULIC	V4702	ESFR	16.8	PENDENT	¾	QUICK	BRASS	200°F	
⊗	4	VICTAULIC	V3406	V34	8	PENDENT	¾	QUICK	BRASS	200°F	
◆	2754	VICTAULIC	V4902	ESFR	22.4	PENDENT	1	FAST	BRASS	212°F	
	TOTAL = 4812										



KEY PLAN

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5719 LAWTON LOOP E. DR. #212
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O :: 317 . 288 . 0681
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SCANNELL
PROPERTIES

CERTIFICATION

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING A LOT 1

NW CORNER OF
NE TUDOR RD & MAIN ST
LEE'S SUMMIT, MO 64086

STATE OF MISSOURI
MICHELLE A LOPEZ
NUMBER PE-2022007904
04-25-22
PROFESSIONAL ENGINEER

ISSUE DATES

PERMIT SET	02.18.22

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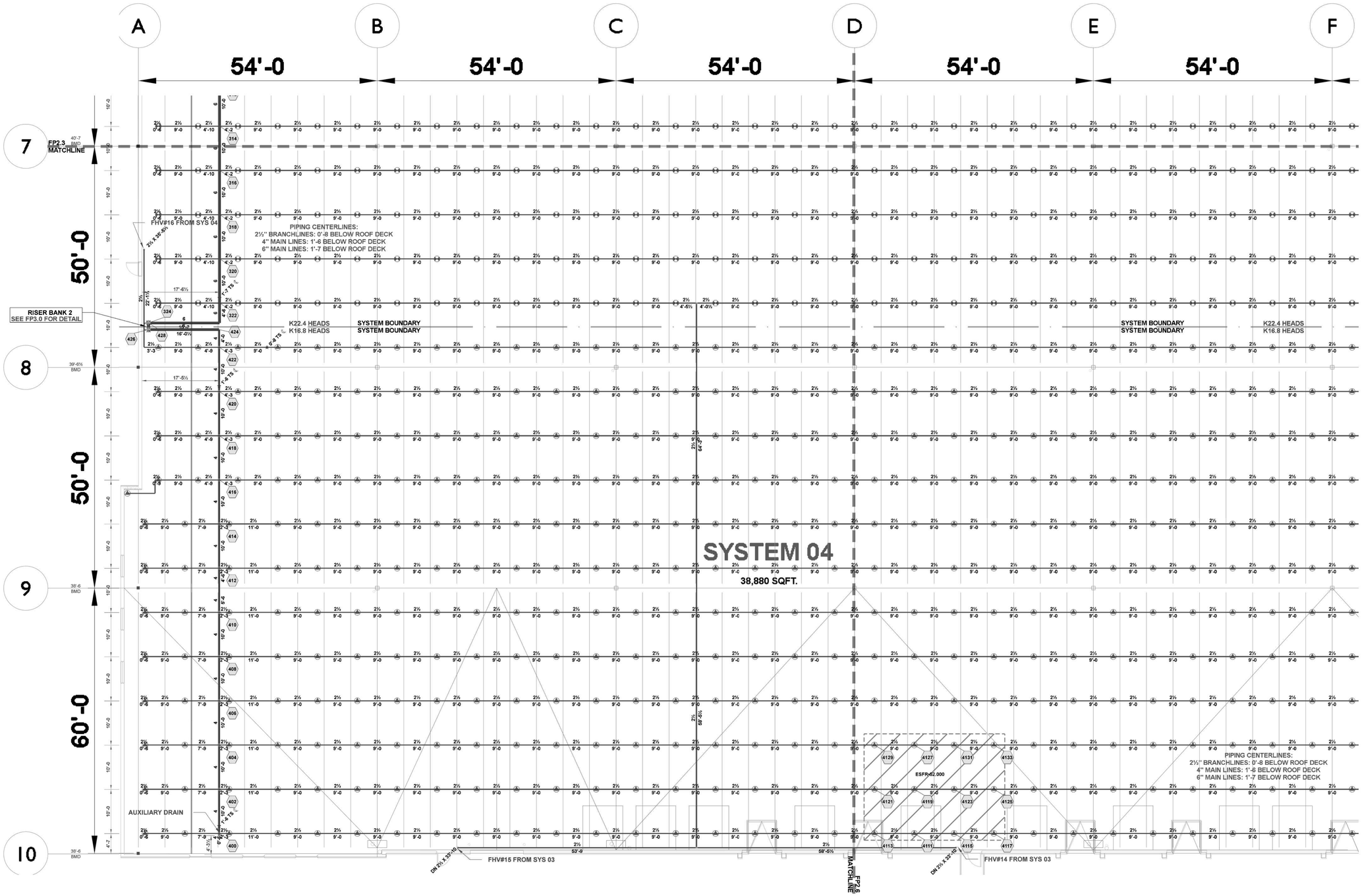
FP2.2.2

AREA 2(CONT): SYSTEMS 02-03

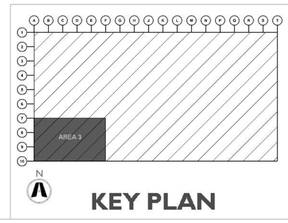


Hydraulic Information	
Remote Area 04	
OCCUPANCY CLASSIFICATION	ESFR
MIN. END HEAD PRESSURE	52.000 (ESFR)
TOTAL HOSE STREAMS	250.00
TOTAL HEADS FLOWING	12
K-FACTOR	16.8
TOTAL WATER REQUIRED	1708.55
TOTAL PRESSURE REQUIRED	76.054
BASE OF RISER (GPM)	1708.55
BASE OF RISER (PSI)	76.054
SAFETY MARGIN (PSI)	+13.552 (15.1%)

AREA 3: SYSTEMS 03-04

SCALE: 3/32" = 1'-0"

Sprinkler Legend											
SYMBOL	QUANTITY	MANUFACTURER	SIN	MODEL	K-FACTOR	TYPE	SIZE	RESPONSE	FINISH	TEMPERATURE	NOTE
▲	2054	VICTAULIC	V4702	ESFR	16.8	PENDENT	¾	QUICK	BRASS	200°F	
⊗	4	VICTAULIC	V3406	V34	8	PENDENT	¾	QUICK	BRASS	200°F	
◆	2754	VICTAULIC	V4902	ESFR	22.4	PENDENT	1	FAST	BRASS	212°F	
	TOTAL = 4812										



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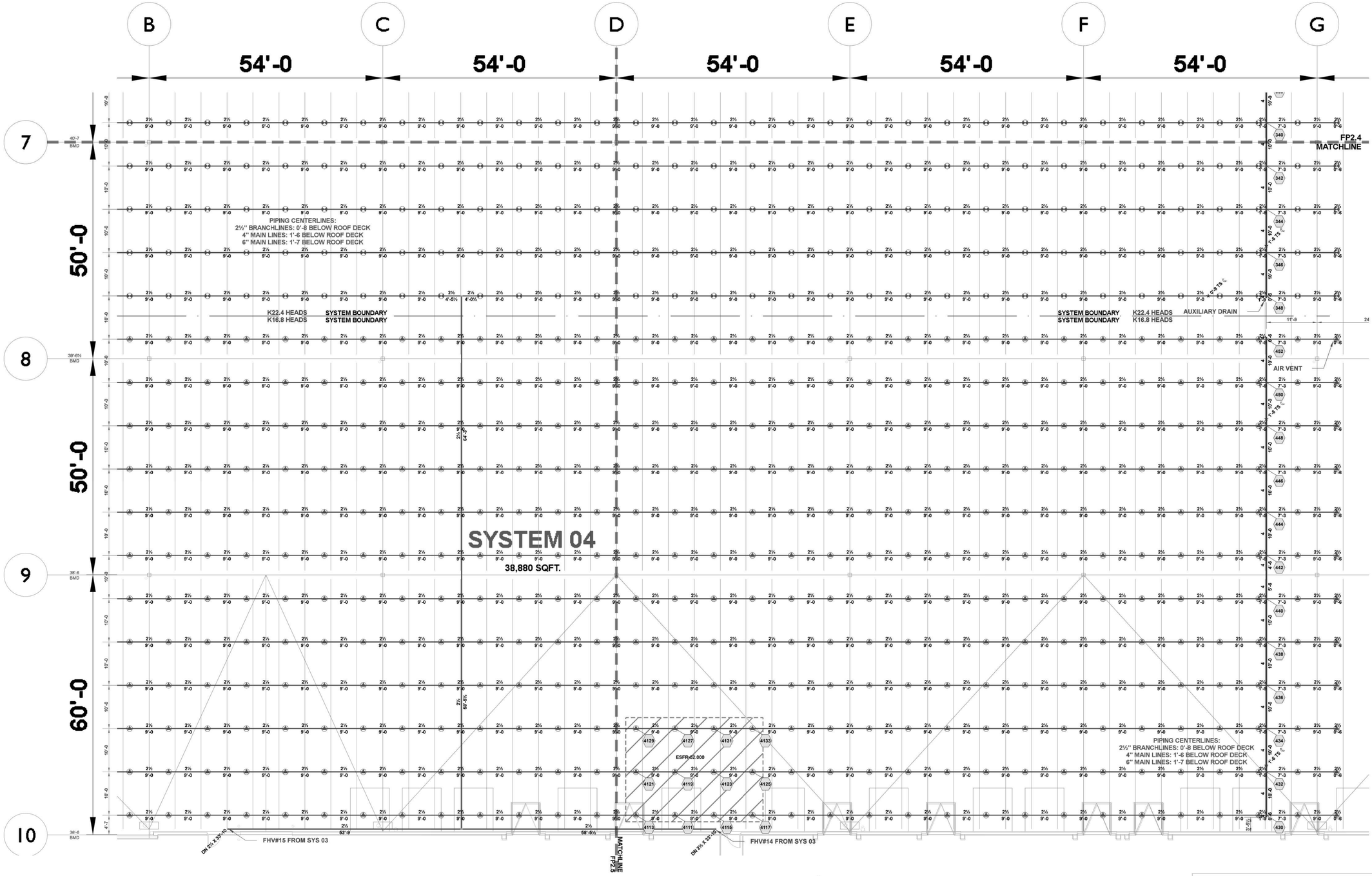
AREA 3: SYSTEMS
03-04

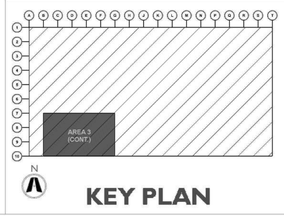


Hydraulic Information	
Remote Area 04	
OCCUPANCY CLASSIFICATION	ESFR
MIN. END HEAD PRESSURE	52.000 (ESFR)
TOTAL HOSE STREAMS	250.00
TOTAL HEADS FLOWING	12
K-FACTOR	16.8
TOTAL WATER REQUIRED	1708.55
TOTAL PRESSURE REQUIRED	76.054
BASE OF RISER (GPM)	1708.55
BASE OF RISER (PSI)	76.054
SAFETY MARGIN (PSI)	+13.552 (15.1%)

AREA 3(CONT.): SYSTEMS 03-04

SCALE: 3/32" = 1'-0"

Sprinkler Legend											
SYMBOL	QUANTITY	MANUFACTURER	SIN	MODEL	K-FACTOR	TYPE	SIZE	RESPONSE	FINISH	TEMPERATURE	NOTE
▲	2054	VICTAULIC	V4702	ESFR	16.8	PENDENT	¾	QUICK	BRASS	200°F	
⊗	4	VICTAULIC	V3406	V34	8	PENDENT	¾	QUICK	BRASS	200°F	
◆◆	2754	VICTAULIC	V4902	ESFR	22.4	PENDENT	1	FAST	BRASS	212°F	
	TOTAL = 4812										



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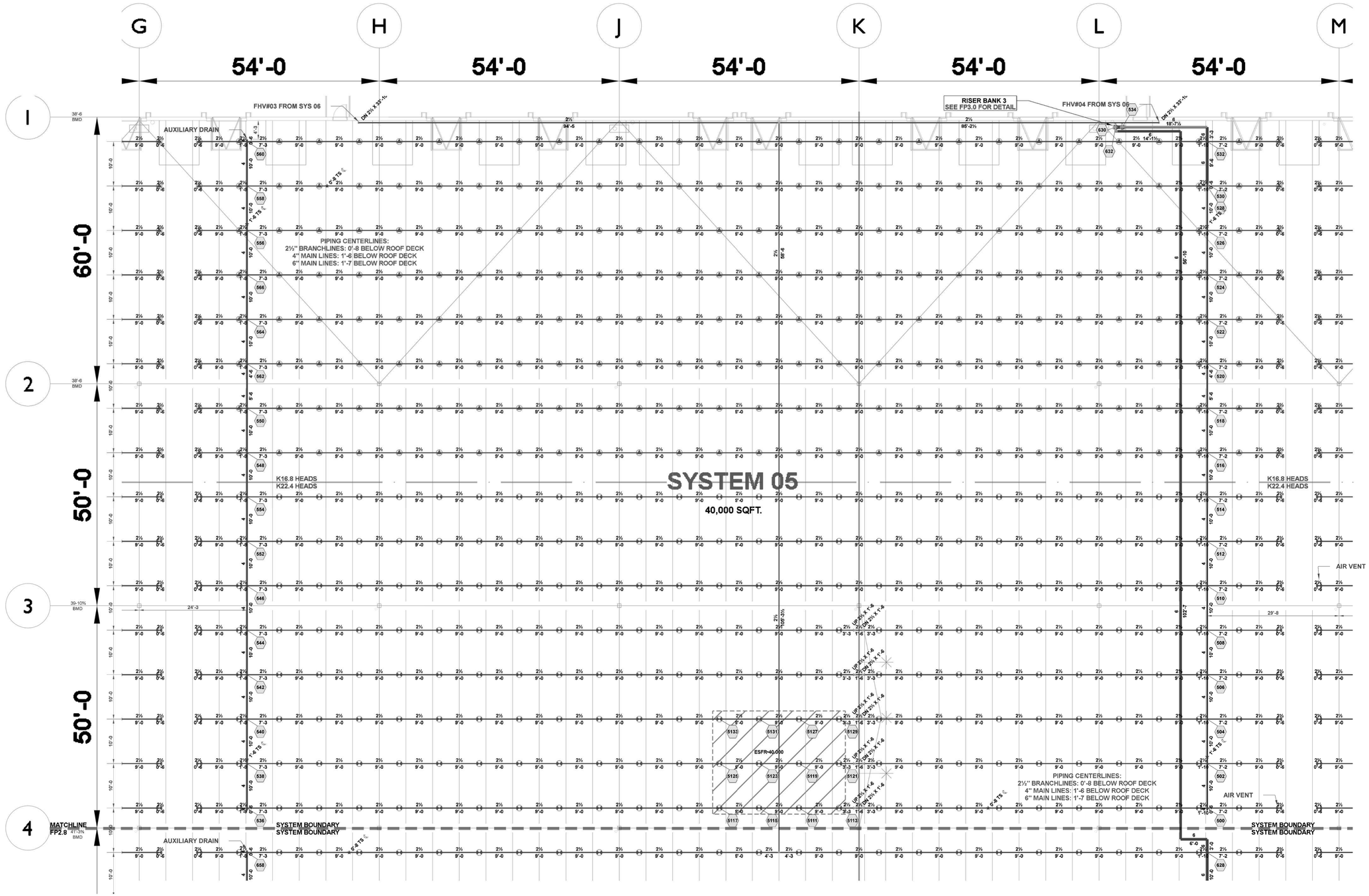
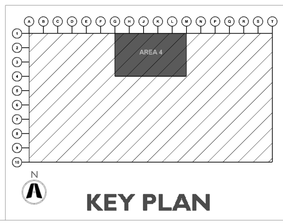
AREA 3(CONT.):
SYSTEMS 03-04



Hydraulic Information	
Remote Area 05	
OCCUPANCY CLASSIFICATION	ESFR
MIN. END HEAD PRESSURE	40.000 (ESFR)
TOTAL HOSE STREAMS	250.00
TOTAL HEADS FLOWING	12
K-FACTOR	22.4
TOTAL WATER REQUIRED	1960.71
TOTAL PRESSURE REQUIRED	80.569
BASE OF RISER (GPM)	1960.71
BASE OF RISER (PSI)	80.569
SAFETY MARGIN (PSI)	+6.892 (7.9%)

AREA 4: SYSTEM 05
SCALE: 3/32" = 1'-0"

Sprinkler Legend											
SYMBOL	QUANTITY	MANUFACTURER	SIN	MODEL	K-FACTOR	TYPE	SIZE	RESPONSE	FINISH	TEMPERATURE	NOTE
▲	2054	VICTAULIC	V4702	ESFR	16.8	PENDENT	¾	QUICK	BRASS	200°F	
⊗	4	VICTAULIC	V3406	V34	8	PENDENT	¾	QUICK	BRASS	200°F	
◆	2754	VICTAULIC	V4902	ESFR	22.4	PENDENT	1	FAST	BRASS	212°F	
	TOTAL = 4812										



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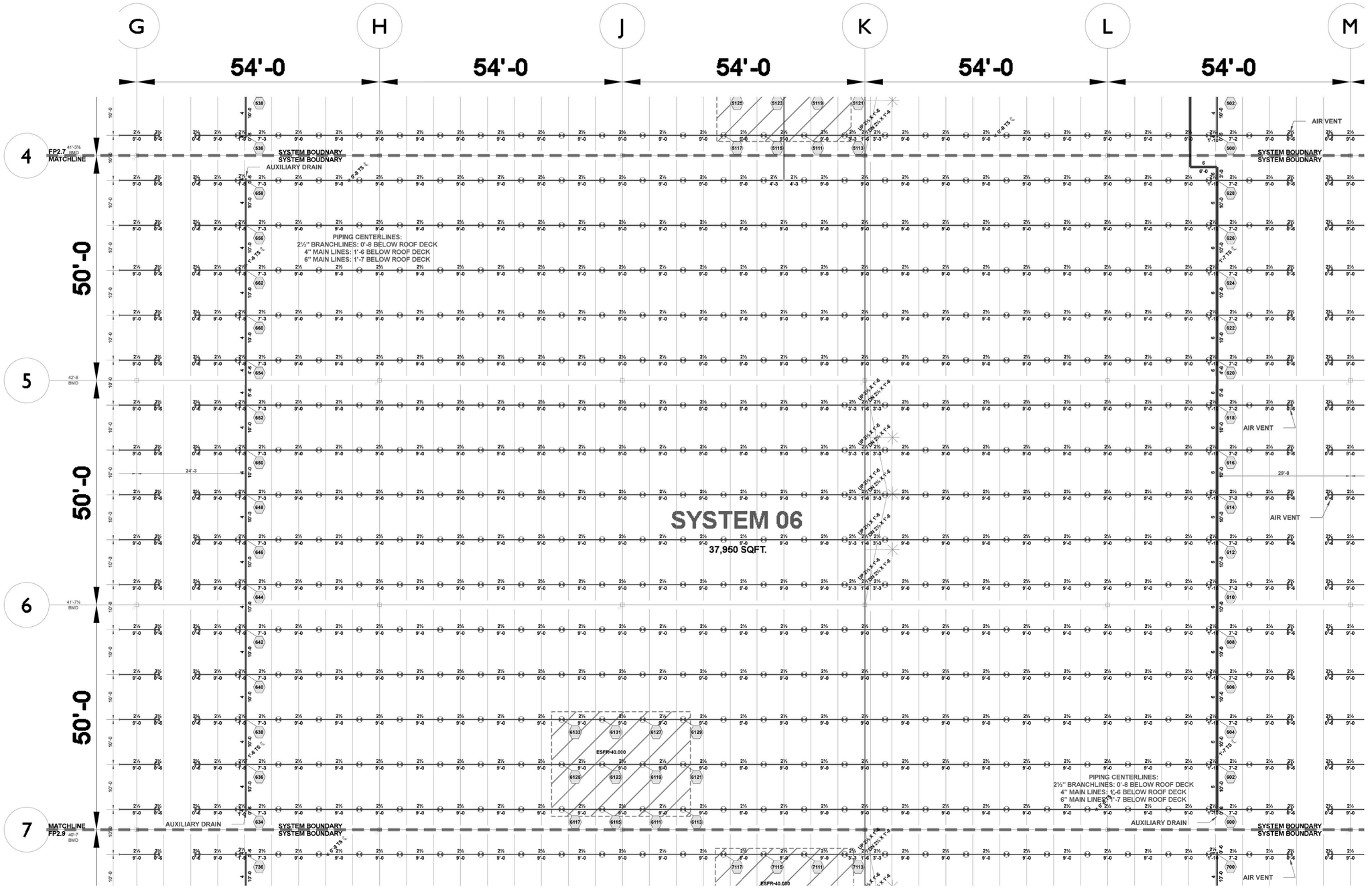
AREA 4: SYSTEM 05



Hydraulic Information

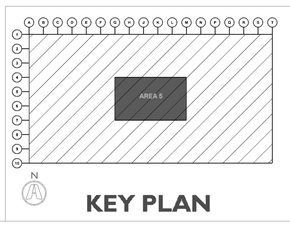
Remote Area 06	
OCCUPANCY CLASSIFICATION	ESFR
MIN. END HEAD PRESSURE	40.000 (ESFR)
TOTAL HOSE STREAMS	250.00
TOTAL HEADS FLOWING	12
K-FACTOR	22.4
TOTAL WATER REQUIRED	1956.47
TOTAL PRESSURE REQUIRED	72.455
BASE OF RISER (GPM)	1956.47
BASE OF RISER (PSI)	72.455
SAFETY MARGIN (PSI)	+15.043 (17.2%)

AREA 5: SYSTEM 06

SCALE: 3/32" = 1'-0"

Sprinkler Legend

SYMBOL	QUANTITY	MANUFACTURER	SIN	MODEL	K-FACTOR	TYPE	SIZE	RESPONSE	FINISH	TEMPERATURE	NOTE
▲	2054	VICTAULIC	V4702	ESFR	16.8	PENDENT	¾	QUICK	BRASS	200°F	
⊗	4	VICTAULIC	V3406	V34	8	PENDENT	¾	QUICK	BRASS	200°F	
◆	2754	VICTAULIC	V4902	ESFR	22.4	PENDENT	1	FAST	BRASS	212°F	
	TOTAL = 4812										



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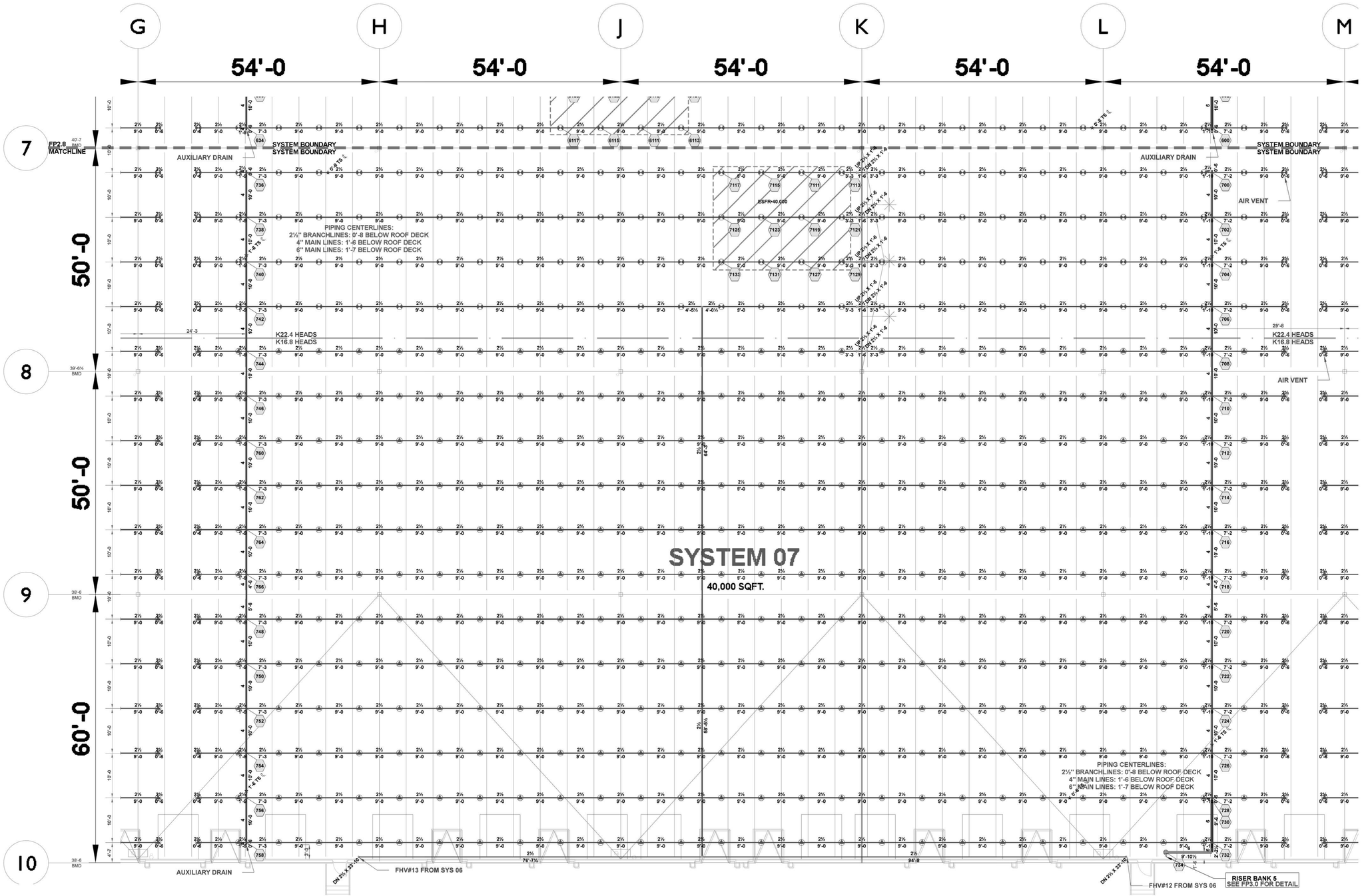
AREA 5: SYSTEM 06



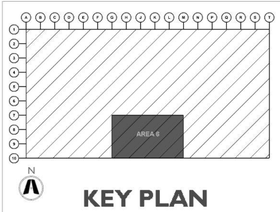
AREA 6: SYSTEM 07

SCALE: 3/32" = 1'-0"

Hydraulic Information	
Remote Area 07	
OCCUPANCY CLASSIFICATION	ESFR
MIN. END HEAD PRESSURE	40.000 (ESFR)
TOTAL HOSE STREAMS	250.00
TOTAL HEADS FLOWING	12
K-FACTOR	22.4
TOTAL WATER REQUIRED	1960.31
TOTAL PRESSURE REQUIRED	77.417
BASE OF RISER (GPM)	1960.31
BASE OF RISER (PSI)	77.417
SAFETY MARGIN (PSI)	+10.047 (11.5%)

Sprinkler Legend

SYMBOL	QUANTITY	MANUFACTURER	SIN	MODEL	K-FACTOR	TYPE	SIZE	RESPONSE	FINISH	TEMPERATURE	NOTE
▲	2054	VICTAULIC	V4702	ESFR	16.8	PENDENT	¾	QUICK	BRASS	200°F	
⊗	4	VICTAULIC	V3406	V34	8	PENDENT	¾	QUICK	BRASS	200°F	
◆◆	2754	VICTAULIC	V4902	ESFR	22.4	PENDENT	1	FAST	BRASS	212°F	
	TOTAL = 4812										



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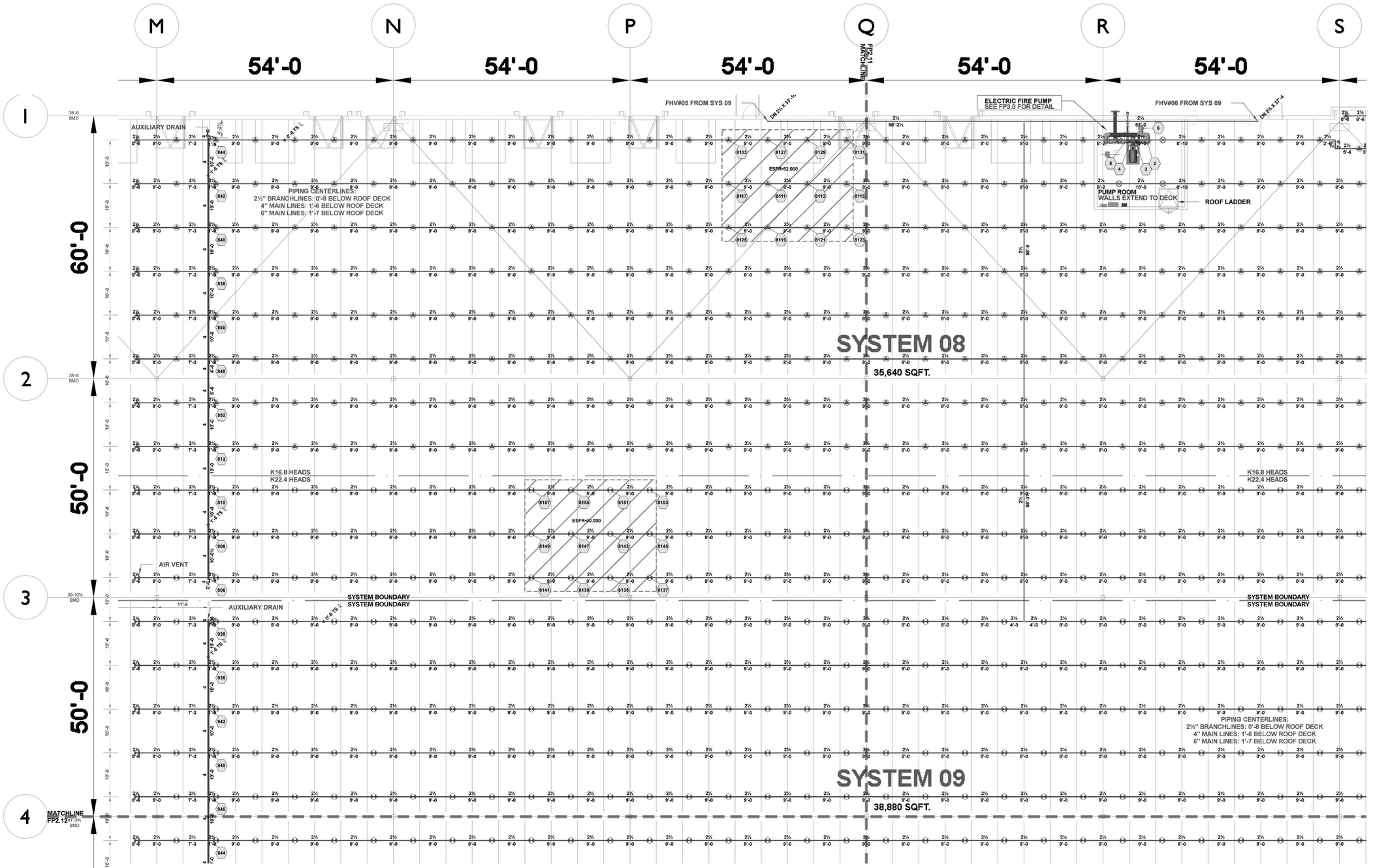
AREA 6: SYSTEM 07



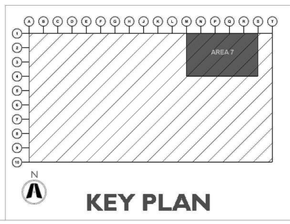
Hydraulic Information	
Remote Area 08 (K16.8)	
OCCUPANCY CLASSIFICATION	ESFR
MIN. END HEAD PRESSURE	52.000 (ESFR)
TOTAL HOSE STREAMS	250.00
TOTAL HEADS FLOWING	12
K-FACTOR	16.8
TOTAL WATER REQUIRED	1711.90
TOTAL PRESSURE REQUIRED	66.082
BASE OF RISER (GPM)	1711.90
BASE OF RISER (PSI)	66.082
SAFETY MARGIN (PSI)	+23.496 (26.2%)

Hydraulic Information	
Remote Area 08	
OCCUPANCY CLASSIFICATION	ESFR
MIN. END HEAD PRESSURE	40.000 (ESFR)
TOTAL HOSE STREAMS	250.00
TOTAL HEADS FLOWING	12
K-FACTOR	22.4
TOTAL WATER REQUIRED	1956.95
TOTAL PRESSURE REQUIRED	69.282
BASE OF RISER (GPM)	1956.95
BASE OF RISER (PSI)	69.282
SAFETY MARGIN (PSI)	+18.213 (20.8%)

AREA 7: SYSTEMS 08-09

SCALE: 3/32" = 1'-0"

Sprinkler Legend											
SYMBOL	QUANTITY	MANUFACTURER	SIN	MODEL	K-FACTOR	TYPE	SIZE	RESPONSE	FINISH	TEMPERATURE	NOTE
▲	2054	VICTAULIC	V4702	ESFR	16.8	PENDENT	¾	QUICK	BRASS	200°F	
⊗	4	VICTAULIC	V3406	V34	8	PENDENT	¾	QUICK	BRASS	200°F	
◆	2754	VICTAULIC	V4902	ESFR	22.4	PENDENT	1	FAST	BRASS	212°F	
	TOTAL = 4812										



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MICHELLE A LOPEZ
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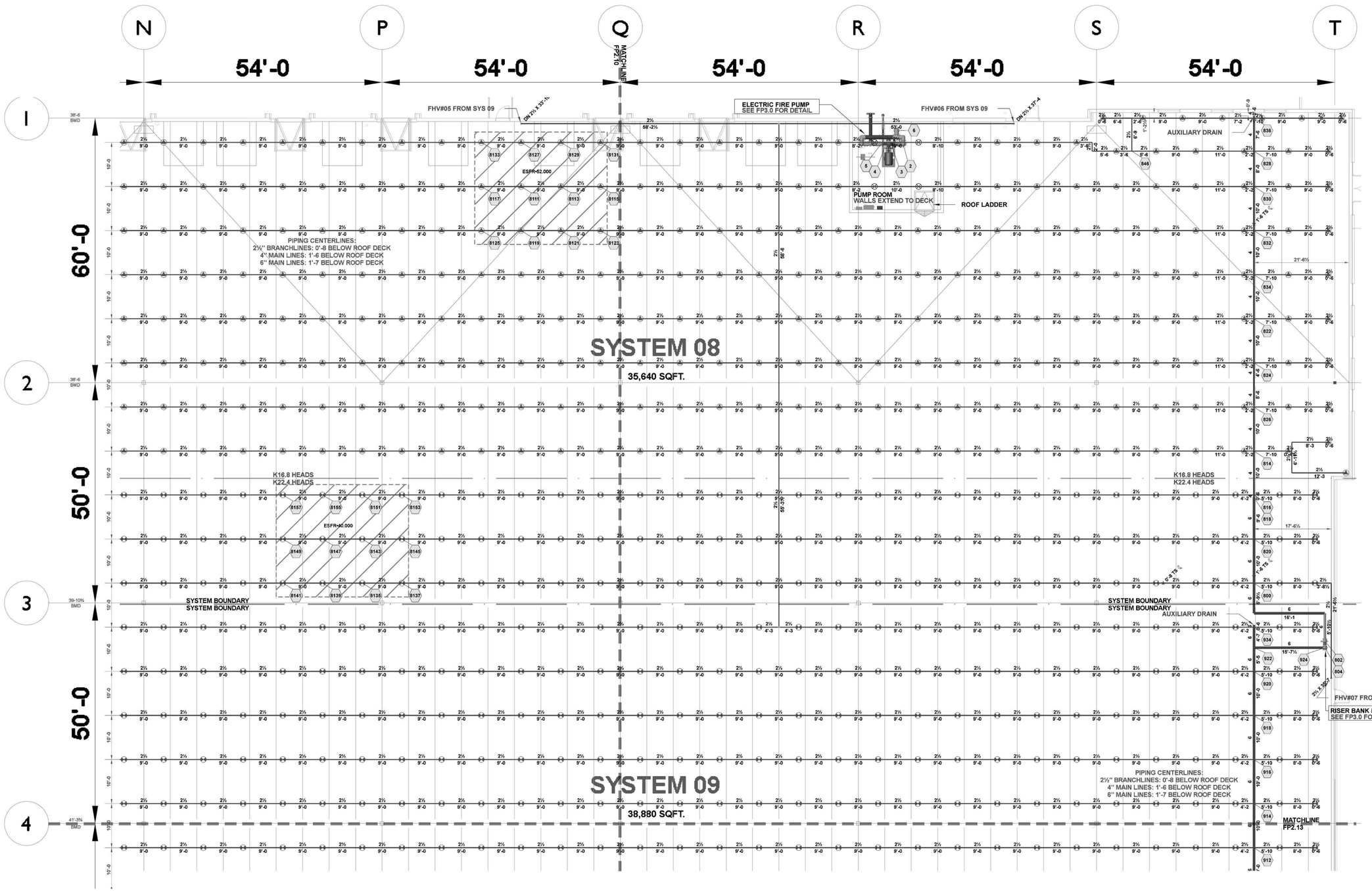
AREA 7: SYSTEMS 08-09



Hydraulic Information	
Remote Area 08 (K16.8)	
OCCUPANCY CLASSIFICATION	ESFR
MIN. END HEAD PRESSURE	52.000 (ESFR)
TOTAL HOSE STREAMS	250.00
TOTAL HEADS FLOWING	12
K-FACTOR	16.8
TOTAL WATER REQUIRED	1711.90
TOTAL PRESSURE REQUIRED	66.082
BASE OF RISER (GPM)	1711.90
BASE OF RISER (PSI)	66.082
SAFETY MARGIN (PSI)	+23.496 (26.2%)

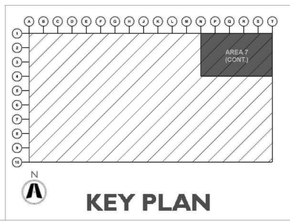
Hydraulic Information	
Remote Area 08	
OCCUPANCY CLASSIFICATION	ESFR
MIN. END HEAD PRESSURE	40.000 (ESFR)
TOTAL HOSE STREAMS	250.00
TOTAL HEADS FLOWING	12
K-FACTOR	22.4
TOTAL WATER REQUIRED	1956.95
TOTAL PRESSURE REQUIRED	69.282
BASE OF RISER (GPM)	1956.95
BASE OF RISER (PSI)	69.282
SAFETY MARGIN (PSI)	+18.213 (20.8%)

AREA 7(CONT): SYSTEMS 08-09

SCALE: 3/32" = 1'-0"

Sprinkler Legend

SYMBOL	QUANTITY	MANUFACTURER	SIN	MODEL	K-FACTOR	TYPE	SIZE	RESPONSE	FINISH	TEMPERATURE	NOTE
▲	2054	VICTAULIC	V4702	ESFR	16.8	PENDENT	¾	QUICK	BRASS	200°F	
⊗	4	VICTAULIC	V3406	V34	8	PENDENT	¾	QUICK	BRASS	200°F	
◆	2754	VICTAULIC	V4902	ESFR	22.4	PENDENT	1	FAST	BRASS	212°F	
	TOTAL = 4812										



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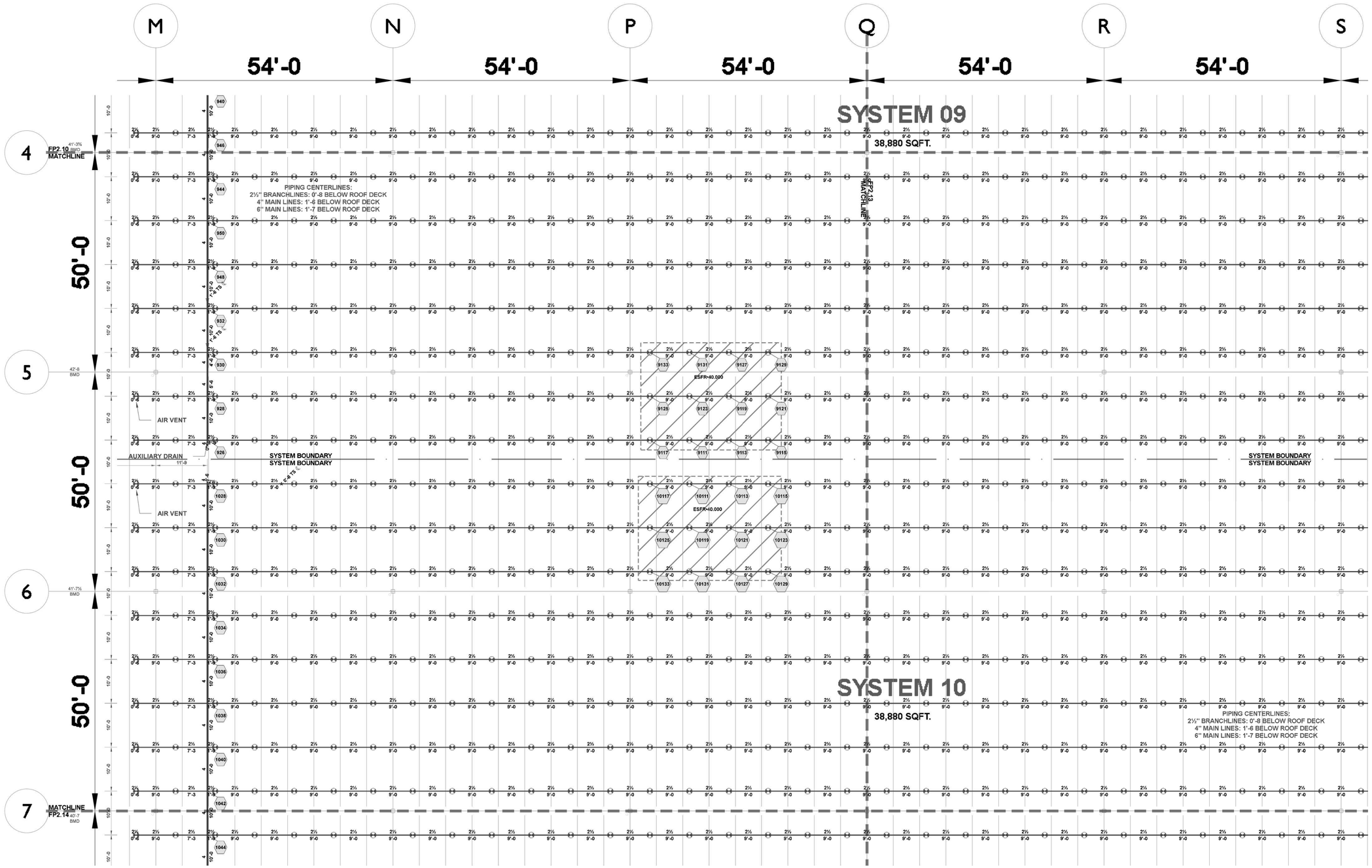
AREA 7(CONT): SYSTEMS 08-09



AREA 8: SYSTEMS 09-10

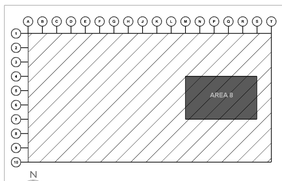
SCALE: 3/32" = 1'-0"

Hydraulic Information	
Remote Area 09	
OCCUPANCY CLASSIFICATION	ESFR
MIN. END HEAD PRESSURE	40.000 (ESFR)
TOTAL HOSE STREAMS	250.00
TOTAL HEADS FLOWING	12
K-FACTOR	22.4
TOTAL WATER REQUIRED	1956.69
TOTAL PRESSURE REQUIRED	65.034
BASE OF RISER (GPM)	1956.69
BASE OF RISER (PSI)	65.034
SAFETY MARGIN (PSI)	+22.463 (25.7%)

Hydraulic Information	
Remote Area 10	
OCCUPANCY CLASSIFICATION	ESFR
MIN. END HEAD PRESSURE	40.000 (ESFR)
TOTAL HOSE STREAMS	250.00
TOTAL HEADS FLOWING	12
K-FACTOR	22.4
TOTAL WATER REQUIRED	1958.59
TOTAL PRESSURE REQUIRED	65.345
BASE OF RISER (GPM)	1958.59
BASE OF RISER (PSI)	65.345
SAFETY MARGIN (PSI)	+22.135 (25.3%)

Sprinkler Legend

SYMBOL	QUANTITY	MANUFACTURER	SIN	MODEL	K-FACTOR	TYPE	SIZE	RESPONSE	FINISH	TEMPERATURE	NOTE
▲	2054	VICTAULIC	V4702	ESFR	16.8	PENDENT	¾	QUICK	BRASS	200°F	
⊗	4	VICTAULIC	V3406	V34	8	PENDENT	¾	QUICK	BRASS	200°F	
◆	2754	VICTAULIC	V4902	ESFR	22.4	PENDENT	1	FAST	BRASS	212°F	
	TOTAL = 4812										



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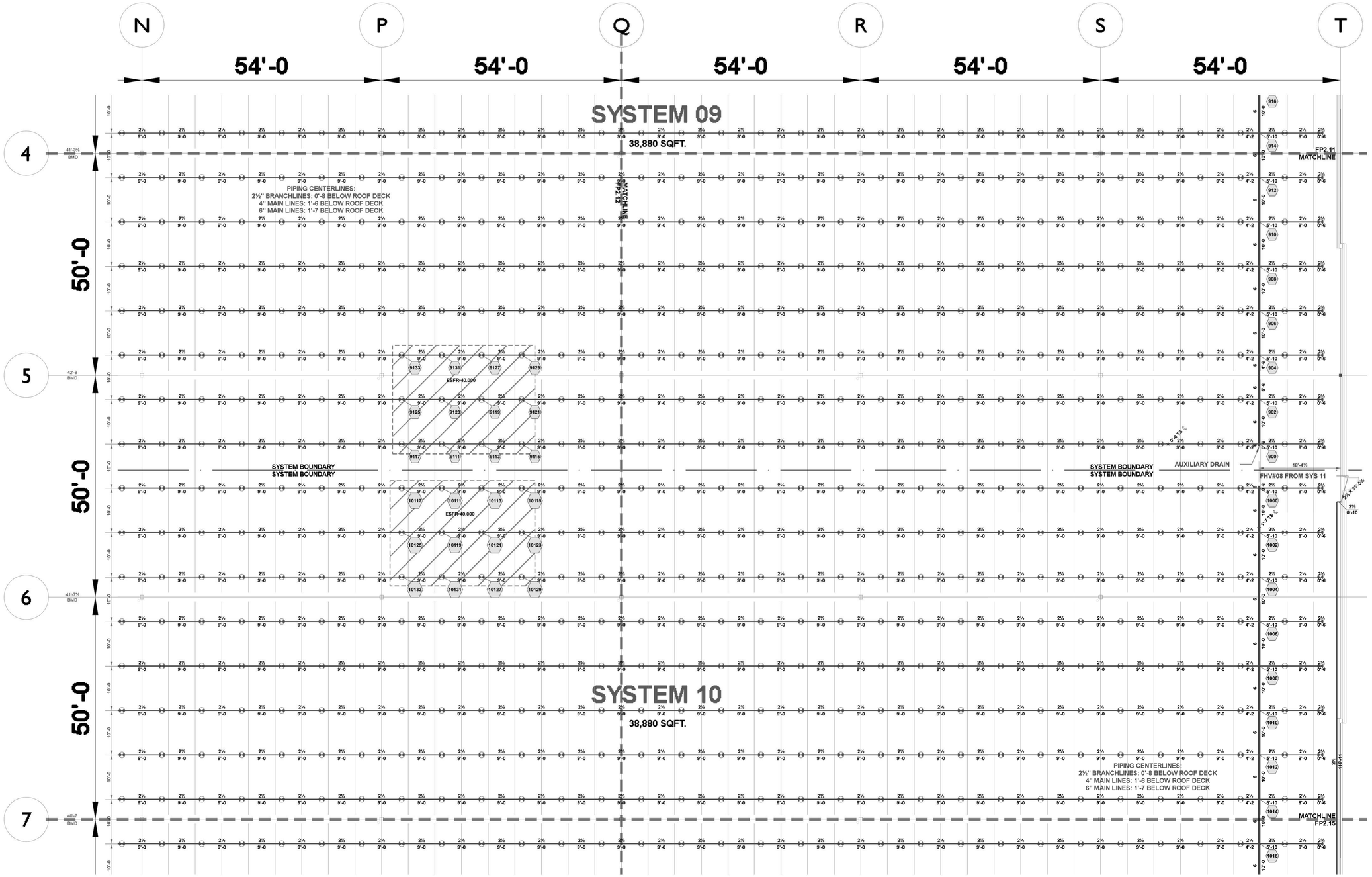
AREA 8: SYSTEMS 09-10



Hydraulic Information	
Remote Area 09	
OCCUPANCY CLASSIFICATION	ESFR
MIN. END HEAD PRESSURE	40.000 (ESFR)
TOTAL HOSE STREAMS	250.00
TOTAL HEADS FLOWING	12
K-FACTOR	22.4
TOTAL WATER REQUIRED	1956.69
TOTAL PRESSURE REQUIRED	65.034
BASE OF RISER (GPM)	1956.69
BASE OF RISER (PSI)	65.034
SAFETY MARGIN (PSI)	+22.463 (25.7%)

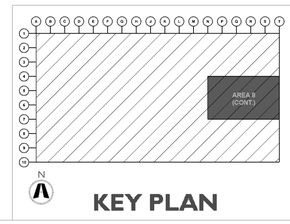
Hydraulic Information	
Remote Area 10	
OCCUPANCY CLASSIFICATION	ESFR
MIN. END HEAD PRESSURE	40.000 (ESFR)
TOTAL HOSE STREAMS	250.00
TOTAL HEADS FLOWING	12
K-FACTOR	22.4
TOTAL WATER REQUIRED	1958.59
TOTAL PRESSURE REQUIRED	65.345
BASE OF RISER (GPM)	1958.59
BASE OF RISER (PSI)	65.345
SAFETY MARGIN (PSI)	+22.135 (25.3%)

AREA 8 (CONT.): SYSTEMS 09-10

SCALE: 3/32" = 1'-0"

Sprinkler Legend

SYMBOL	QUANTITY	MANUFACTURER	SIN	MODEL	K-FACTOR	TYPE	SIZE	RESPONSE	FINISH	TEMPERATURE	NOTE
▲	2054	VICTAULIC	V4702	ESFR	16.8	PENDENT	¾	QUICK	BRASS	200°F	
⊗	4	VICTAULIC	V3406	V34	8	PENDENT	¾	QUICK	BRASS	200°F	
◆	2754	VICTAULIC	V4902	ESFR	22.4	PENDENT	1	FAST	BRASS	212°F	
	TOTAL = 4812										



KEY PLAN

CURRAN
ARCHITECTURE
5719 LAWTON LOOP E. DR. #212
INDIANAPOLIS, IN 46216
O :: 317 . 288 . 0681
F :: 317 . 288 . 0753

SCANNELL PROPERTIES

CERTIFICATION

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS
BUILDING A LOT 1

NW CORNER OF
NE TUDOR RD & MAIN ST
LEE'S SUMMIT, MO 64086

STATE OF MISSOURI
MICHELLE A LOPEZ
NUMBER PE-2022007904
04-25-22
PROFESSIONAL ENGINEER

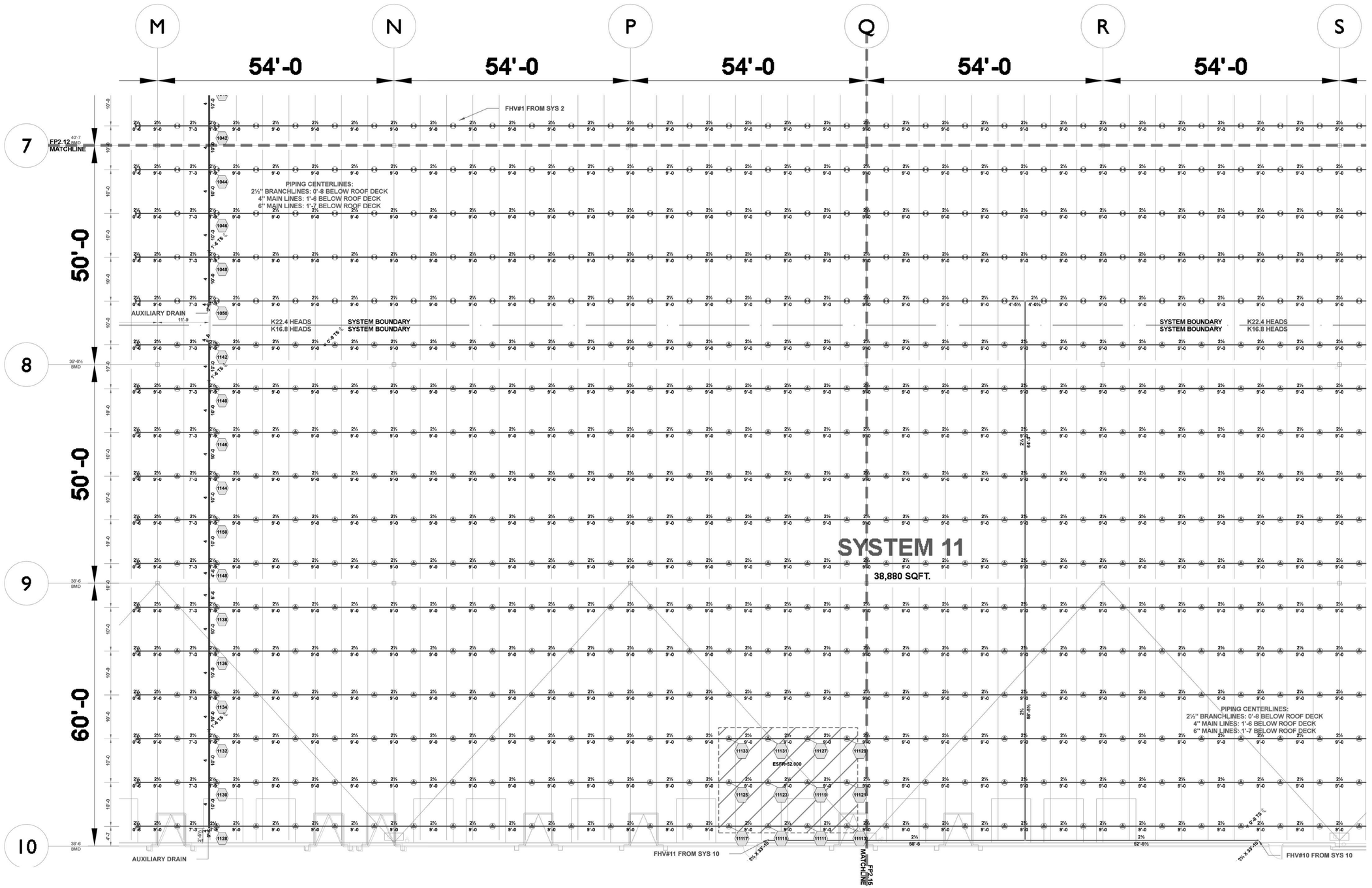
ISSUE DATES

PERMIT SET	02.18.22

210300

FP2.8.2

AREA 8 (CONT.):
SYSTEMS 09-10



AREA 9: SYSTEMS 10-11

SCALE: 3/32" = 1'-0"

Hydraulic Information	
Remote Area 11	
OCCUPANCY CLASSIFICATION	ESFR
MIN. END HEAD PRESSURE	52.000 (ESFR)
TOTAL HOSE STREAMS	250.00
TOTAL HEADS FLOWING	12
K-FACTOR	16.8
TOTAL WATER REQUIRED	1708.55
TOTAL PRESSURE REQUIRED	75.705
BASE OF RISER (GPM)	1708.55
BASE OF RISER (PSI)	75.705
SAFETY MARGIN (PSI)	+13.901 (15.5%)

Sprinkler Legend

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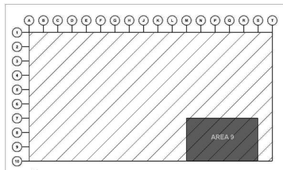

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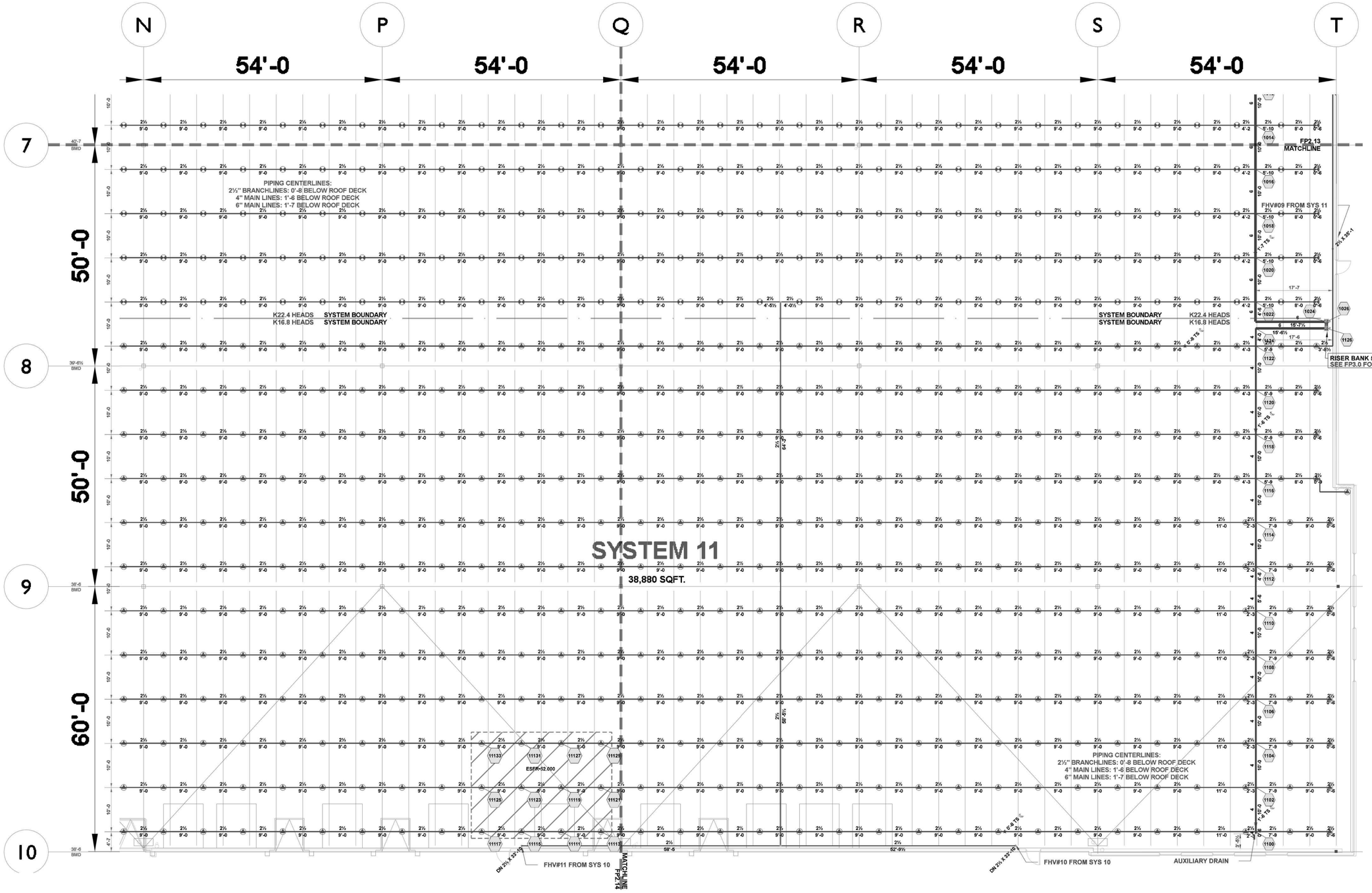
FP2.9.1

AREA 9: SYSTEMS
10-11



AREA 9(CONT.): SYSTEMS 10-11

SCALE: 3/32" = 1'-0"

Hydraulic Information	
Remote Area 11	
OCCUPANCY CLASSIFICATION	ESFR
MIN. END HEAD PRESSURE	52.000 (ESFR)
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Sprinkler Legend

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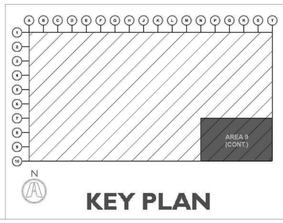

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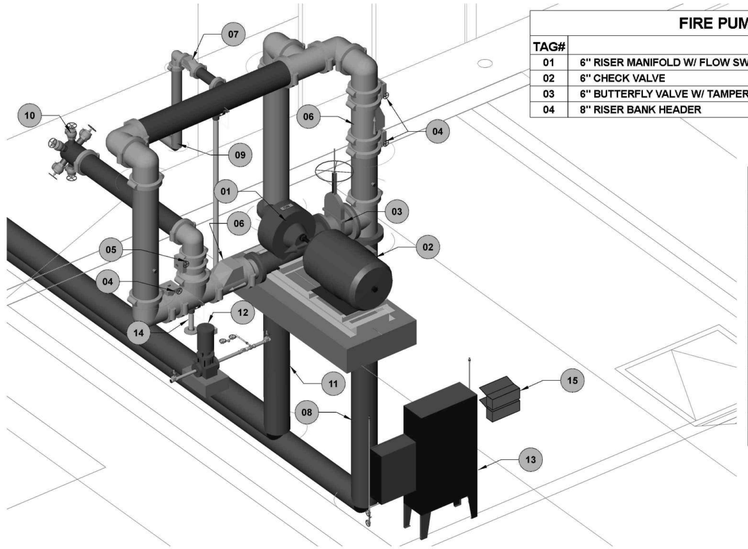
FP2.9.2

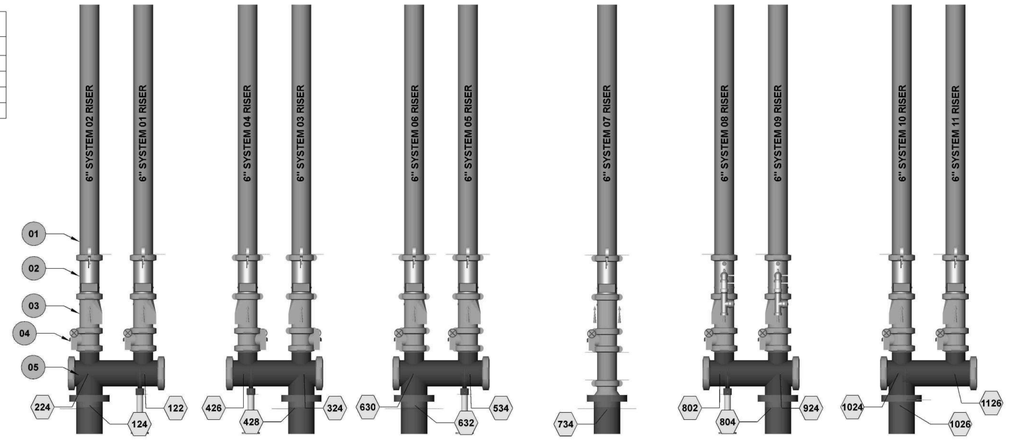
AREA 9(CONT.):
SYSTEMS 10-11

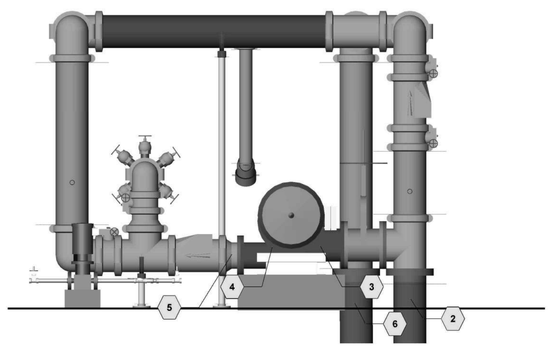


PUMP ROOM (3D VIEW)
SCALE: 3/32" = 1'-0"

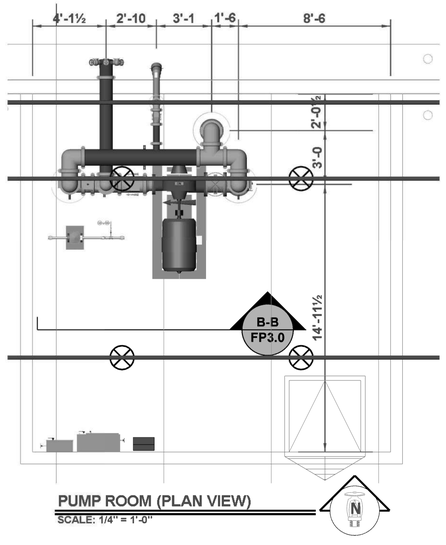
FIRE PUMP RISER BANK MATERIAL LIST	
TAG#	MATERIAL CALL OUT
01	6" RISER MANIFOLD W/ FLOW SWITCH, INSP. TEST AND 2" MAIN DRAIN, & PRESSURE RELIEF VALVES
02	6" CHECK VALVE
03	6" BUTTERFLY VALVE W/ TAMPER (NORMALLY OPEN)
04	8" RISER BANK HEADER

FIRE PUMP ROOM MATERIAL LIST	
TAG#	MATERIAL CALL OUT
01	2000 GPM @ 60 PSI 10X8 FIRE PUMP
02	SPP 100 HP ELECTRIC MOTOR
03	10" FLG OS&Y GATE VALVE W/ TAMPER (NORMALLY OPEN)
04	10" BUTTERFLY VALVE W/ TAMPER (NORMALLY OPEN)
05	8" BUTTERFLY VALVE W/ TAMPER (NORMALLY CLOSED)
06	10" CHECK VALVE
07	4" CHECK VALVE
08	10" UNDERGROUND SUPPLY PIPING
09	4" FDC PIPING W/ STORZ TYPE CONNECTION
10	8X2½(6) TEST HEADER
11	10" WATER DISCHARGE PIPING TO 6" SYSTEM RISERS
12	2 HP JOCKEY PUMP ASSEMBLY (15 GPM @ 104 PSI)
13	ELECTRIC & JOCKEY PUMP CONTROLLERS
14	10" PIPE STAND
15	SPARE HEAD BOXES

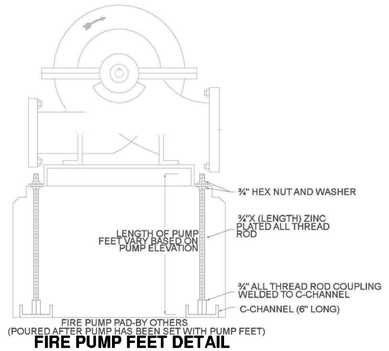




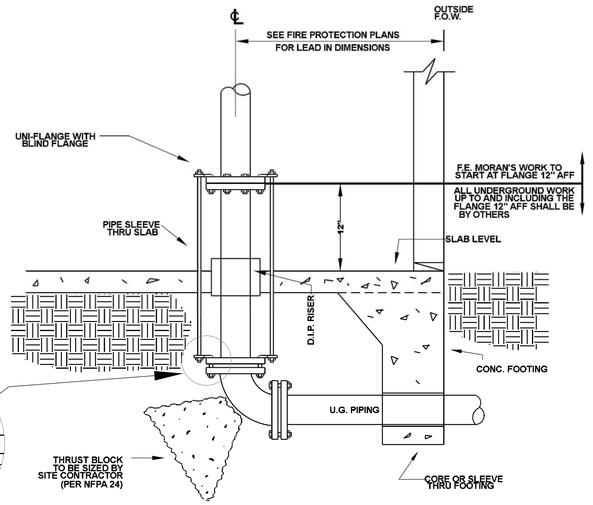
FIRE PUMP (SECTION B-B)
SCALE: 1/2" = 1'-0"



PUMP ROOM (PLAN VIEW)
SCALE: 1/4" = 1'-0"

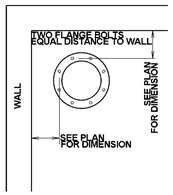


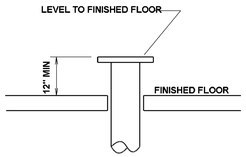
FIRE PUMP FEET DETAIL



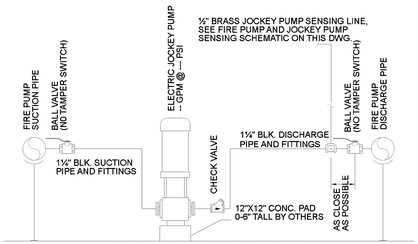
TYPICAL UNDERGROUND LEAD-IN

NOTE: ALL FIRE PROTECTION PIPING STUB-UPS WHETHER INSIDE OR OUTSIDE A BUILDING (INCLUDING PUMP ROOMS), SHALL BE INSTALLED UTILIZING THE "2-HOLE METHOD" ON ALL FLANGES. THE FLANGE SHALL BE INSTALLED WITH THE BOLT HOLES ALIGNED SO THAT FITTING, VALVES, AND EQUIPMENT ARE IN A SQUARE ALIGNMENT WITH ADJACENT WALLS AND FLOOR.





INCOMING FIRE PROTECTION SUPPLY DETAIL
NOT TO SCALE



JOCKEY PUMP SCHEMATIC
NO SCALE

FIRE PUMP NOTES:
-IN ADDITION TO THE FOLLOWING NOTES, ALL WORK AND MATERIAL SHALL CONFORM TO NFPA 13 AND NFPA 20, AS APPLICABLE

NFPA 20 REQUIREMENTS:

EQUIPMENT PROTECTION:
SUITABLE MEANS SHALL BE PROVIDED FOR MAINTAINING THE TEMPERATURE OF A PUMP ROOM OR PUMP HOUSE, WHERE REQUIRED, ABOVE 40 DEG F. ARTIFICIAL LIGHT SHALL BE PROVIDED IN THE PUMP ROOM OR PUMP HOUSE. EMERGENCY LIGHTING SHALL BE PROVIDED BY FIXED OR PORTABLE BATTERY OPERATED LIGHTS, INCLUDING FLASHLIGHTS. EMERGENCY LIGHTS SHALL NOT BE CONNECTED TO AN ENGINE STARTING BATTERY. PROVISION SHALL BE MADE FOR VENTILATION OF THE PUMP ROOM OR PUMP HOUSE. FLOORS SHALL BE PITCHED FOR ADEQUATE DRAINAGE OF ESCAPING WATER AWAY FROM CRITICAL EQUIPMENT SUCH AS THE PUMP, DRIVER, CONTROLLER, ECT. THE PUMP ROOM OR PUMP HOUSE SHALL BE PROVIDED WITH A FLOOR DRAIN THAT WILL DISCHARGE TO A FROST-FREE LOCATION.

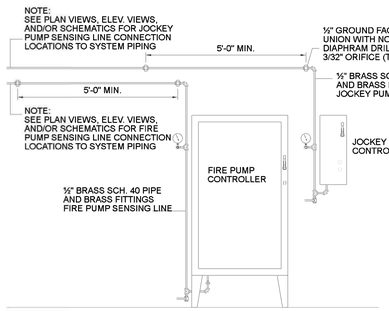
PIPE AND FITTINGS:
WHERE CORROSIVE CONDITIONS EXIST, THE STEEL SUCTION PIPE SHALL BE GALVANIZED. ALL PROVISIONS FOR WELDED PIPE SHALL BE IN ACCORDANCE WITH NFPA 51B, STANDARD FOR FIRE PREVENTION DURING WELDING, CUTTING, AND OTHER HOT WORK.

SUCTION PIPE AND FITTINGS:
THE SUCTION PIPE SHALL BE INSTALLED AND TESTED IN ACCORDANCE WITH NFPA. A BY-PASS SHALL BE INSTALLED AROUND THE PUMP WHEN THE SUCTION PRESSURE IS OF MATERIAL VALUE WITHOUT THE PUMP. THE PIPE SIZE OF THE BY-PASS SHALL BE AS LARGE AS THE SIZE REQUIRED FOR SUCTION PIPE IN NFPA 20. THE BY-PASS CONTROL VALVES SHALL BE NORMALLY OPEN

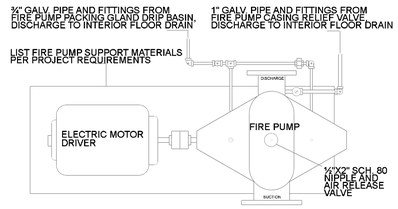
DISCHARGE PIPE:
SHALL BE HYDROSTATICALLY TESTED IN ACCORDANCE WITH NFPA 13. THE SIZE OF THE PUMP DISCHARGE PIPE AND FITTINGS SHALL BE NOT LESS THAN THAT GIVEN IN NFPA 20.

ELECTRIC DRIVE FOR PUMPS:
ALL ELECTRICAL WORK TO SUPPLY POWER TO THE FIRE PUMP SHALL BE IN ACCORDANCE WITH CHAPTER 6 OF NFPA 20. ELECTRICAL WORK SHALL COMPLY WITH NFPA 70, ARTICLE 695 AND OTHER APPLICABLE ARTICLES. THE FIRE PUMP FEEDER CIRCUIT CONDUCTORS AND THEIR ACCESSORIES SHALL BE DEDICATED AND PROTECTED TO RESIST POSSIBLE DAMAGE BY FIRE, STRUCTURAL FAILURE, OR OPERATIONAL ACCIDENT. THE SUPPLY CONDUCTORS DIRECTLY CONNECT THE POWER SOURCE TO THE LISTED FIRE PUMP CONTROLLER.

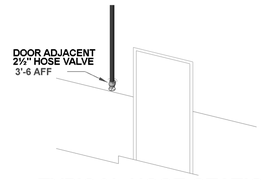
FIRE PUMP CONTROLLER:
SHALL BE WIRED FOR MANUAL SHUTDOWN. FIRE PUMP SHALL BE MONITORED FOR THE FOLLOWING CONDITIONS: FIRE PUMP OR MOTOR RUNNING, LOSS OF PHASE, PHASE REVERSAL.



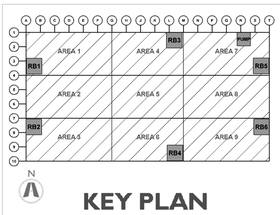
FIRE PUMP AND JOCKEY PUMP SENSING SCHEMATIC
NO SCALE



ELECTRIC FIRE PUMP SCHEMATIC
NO SCALE



TYPICAL HOSE STATION
N.T.S.



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FIRE PUMP & RISER DETAIL