Joe Frogge

RELEASED FOR CONSTRUCTION
As Noted on Plans Review

Development Services Department
Lee's Summit, Missouri
12/27/2022

LEE'S SUMMIT LOGISTICS 431K SPEC BUILDING

NE TUDOR RD & MAIN ST
LEE'S SUMMIT, MO
64086
11.02.22

BUILD OUT CONSTRUCTION SET

OWNER
SCANNELL PROPERTIES
8801 RIVER CROSSING BLVD. SUITE 300
INDIANAPOLIS, IN 46240
O : 317 . 218 . 1648

CIVIL ENGINEER
OLLSON
7301 W. 133RD ST. SUITE 200
OVERLAND PARK, KS 66213
O : 913 . 381 . 1170

ARCHITECT
CURRAN
ARCHITECTURE
5719 LAWTON LOOP E. DR. #212
INDIANAPOLIS, IN 46216
O : 317 . 288 . 0681
CONTACT : SHAWN CURRAN

STRUCTURAL ENGINEER
WALLACE DESIGN COLLECTIVE
1741 McGEE STREET
KANSAS CITY, MO 64108
O : 816 . 421 . 8282

CONTRACTOR
KADEAN CONSTRUCTION
1821 McGEE STREET
KANSAS CITY, MO 64108
O : 816 . 708 . 1199

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T1.6	TILT-UP PANEL PLAN
T1.7	TILT-UP PANEL PLAN
T1.8	TILT-UP PANEL PLAN
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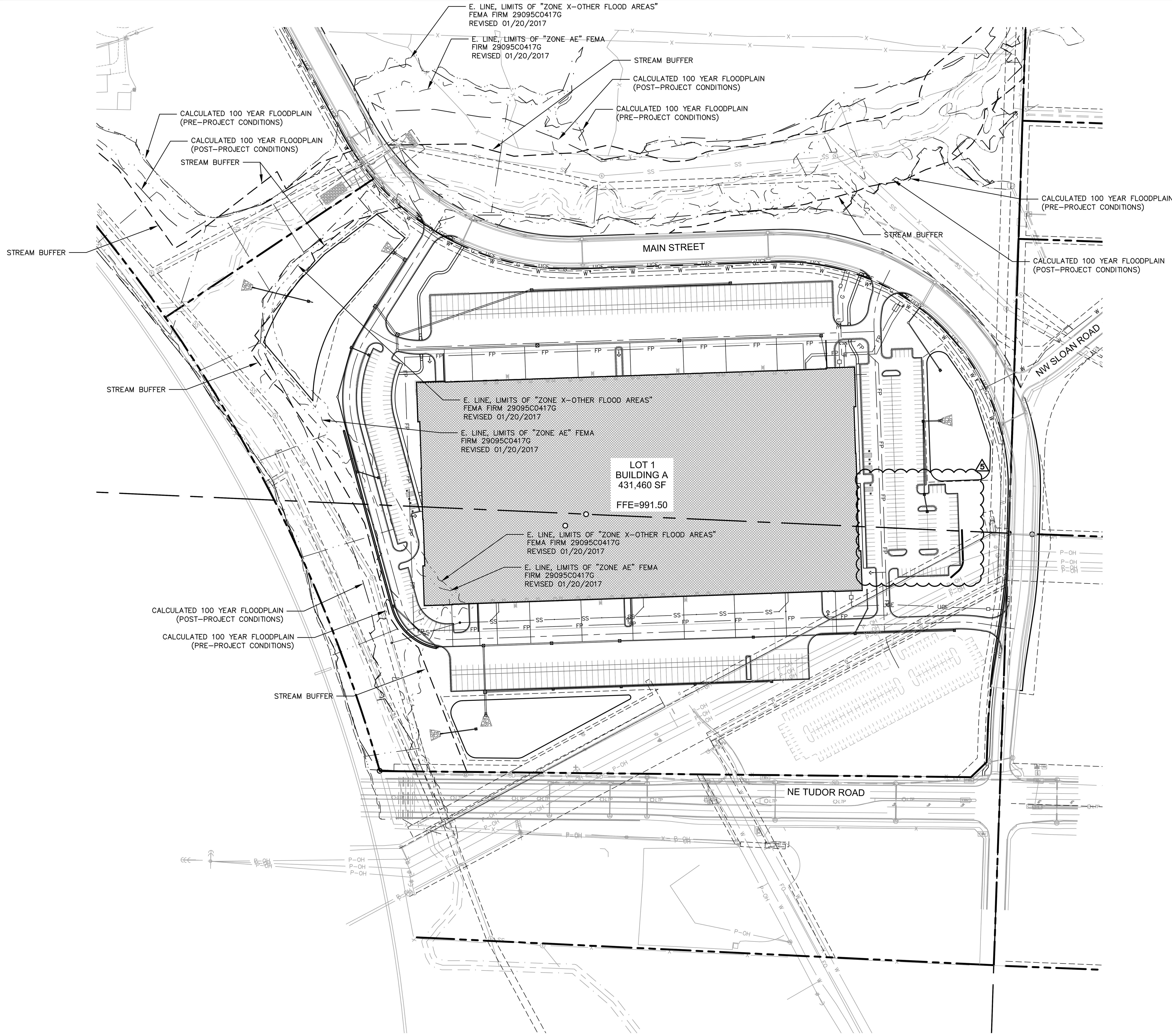
STATE OF MISSOURI
SHAWN M. CURRAN
NUMBER A-8207
REGISTERED ARCHITECT

LEE'S SUMMIT LOGISTICS 431K SPEC
210300

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
12/27/2022

LEGEND

- PROPERTY LINE
- SECTION LINE
- FEMA FLOOD PLAIN LIMITS
- LOT LINE
- FENCE



PROPERTY DESCRIPTION

All that part of an unplatted tract of land, together with all that part of North Main Street right of way, all lying in the West Half of Section 31, Township 48 North, Range 31 West, lying in the City of Lee's Summit, Jackson County, Missouri, described by Patrick Ethan Ward, MO PLS-20050071, of Olsson MOLC-366, on October 14, 2021, as follows:

BEGINNING at the Northeast corner of the Southwest Quarter of Section 31, Township 48 North, Range 31 West; thence South 01 degree 59 minutes 47 seconds West, on the East line of said Southwest Quarter, a distance of 65.98 feet to a point on the West line of NW Sloan Street right of way, as established in Document 2013E0075031, said point also lying on a non-tangent curve; thence in a Southerly direction, departing said East line, on said West line and on a curve to the right whose initial tangent bears South 02 degrees 47 minutes 37 seconds West, having a radius of 970.00 feet, through a central angle of 6 degrees 27 minutes 07 seconds, an arc distance of 109.23 feet to a point of tangency; thence South 09 degrees 14 minutes 44 seconds West, continuing on said West line, a distance of 111.80 feet to a point of curvature; thence in a Southerly direction, continuing on said West line and on a curve to the left, having a radius of 1030.00 feet, through a central angle of 7 degrees 14 minutes 57 seconds, an arc distance of 130.32 feet to a point of tangency; thence South 01 degree 59 minutes 47 seconds West, continuing on said West line, a distance of 69.49 feet to a point on the North line of NE Tudor Road right of way, as established in said Document 2013E0075031; thence South 46 degrees 15 minutes 48 seconds West, departing said West line, on said North line, a distance of 46.09 feet to a point; thence North 89 degrees 24 minutes 16 seconds West, continuing on said North line, and on the North line of NW Tudor Road right of way, as established in Document 2013E0075030, a distance of 1249.23 feet to a point on the East line of Union Pacific Railroad right of way, as now established, said point also lying on a non-tangent curve; thence in a Northerly and Northwesterly direction, departing said North line, on said East line and on a curve to the left whose initial tangent bears North 15 degrees 46 minutes 27 seconds West, having a radius of 3203.90 feet, through a central angle of 22 degrees 48 minutes 11 seconds, an arc distance of 1275.12 feet to a point of tangency; thence North 38 degrees 34 minutes 39 seconds West, continuing on said East line, a distance of 738.40 feet to a point of curvature; thence in a Northwesterly direction, continuing on said East line and on a curve to the right, having a radius of 5981.13 feet, through a central angle of 2 degrees 39 minutes 22 seconds, an arc distance of 277.27 feet to a point on the North line of the South Half of the Northwest Quarter of said Section 31, said point also lying on a non-tangent line; thence South 87 degrees 40 minutes 30 seconds East, departing said East line, on said North line, a distance of 884.17 feet to a point on a non-tangent curve; thence in a Southeasterly direction, departing said North line, on a curve to the right whose initial tangent bears South 45 degrees 29 minutes 38 seconds East, having a radius of 544.00 feet, through a central angle of 16 degrees 50 minutes 44 seconds, an arc distance of 159.94 feet to a point of tangency; thence South 28 degrees 38 minutes 55 seconds East a distance of 437.58 feet to a point of curvature; thence in a Southeasterly and Easterly direction, on a curve to the left, having a radius of 476.00 feet, through a central angle of 63 degrees 19 minutes 59 seconds, an arc distance of 526.16 feet to a point of tangency; thence North 88 degrees 01 minute 06 seconds East a distance of 416.85 feet to a point of curvature; thence in an Easterly and Southeasterly direction, on a curve to the right, having a radius of 544.00 feet, through a central angle of 65 degrees 51 minutes 08 seconds, an arc distance of 625.24 feet to a point on a non-tangent line, said point also lying on the East line of said Northwest Quarter; thence South 01 degree 53 minutes 30 seconds West, on said East line, a distance of 338.00 feet to the POINT OF BEGINNING, containing 2,375,437 Square Feet or 54.5325 Acres, more or less.

BUILDING & SITE DATA

ZONING

NO. OF STORIES	BLDG HEIGHT	USE	BUILDING SQ. FT.	PARKING REQUIRED	PARKING PROVIDED	FLOOR AREA RATIO	LOT AREA
1	48 FT	BUILDING A WAREHOUSE	431,460 S.F.	1 STALL PER 1000 SF (432 STALLS)	320 STALLS (159 FUTURE STALLS)	0.26	37.90 ACRES

LOT 1 PROPOSED OPEN SPACE= 788,745 S.F. (18.107 ACRES) 47.86%

REQUIRED OPEN SPACE= REFERENCE LANDSCAPE PLAN

LOT 1 PROPOSED IMPERVIOUS AREA= 858,965 S.F. (19.719 ACRES)

PROPERTY OWNER/ DEVELOPER

SCANNELL PROPERTIES #603, LLC
8801 RIVER CROSSING BLVD, SUITE 300
INDIANAPOLIS, IN 46240
PH: 317-218-1648

ENGINEER/ LANDSCAPE ARCHITECT

OLSSON
7301 W. 133RD STREET, SUITE 200
OVERLAND PARK, KS 66213
PH: 913-381-1170
F: 913-381-1174

PROPOSED SITE USE

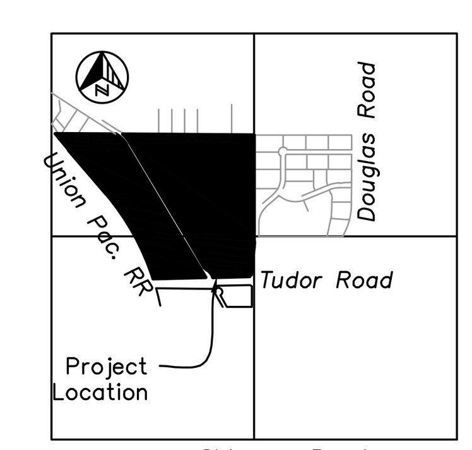
INDUSTRIAL

EXISTING & PROPOSED ZONING

SITE AREA

NET SITE AREA= 3,439,837 SQ. FT., (78.9678 AC±)

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
07/12/2022



Chipman Road
Section 31, T48N, R31W
VICINITY MAP
Scale: 1" = 2000'

N
0' 50' 100' 200'
SCALE IN FEET

olsson
7301 West 133rd Street, Suite 200
Overland Park, KS 66213-4750
TEL 913.381.1170
www.olsson.com

SCANNELL PROPERTIES

MITCHELL ALAN PLEAK
NUMBER PE-2009018764
06-30-22
STATE OF MISSOURI PROFESSIONAL ENGINEER

REVISIONS

REV. NO.	DATE	REVISIONS DESCRIPTION	BY
1	12.04.2021	CITY COMMENTS	
2	01.07.2022	CITY COMMENTS #2 AND OWNER CHANGES	
3	02.03.2022	CITY & EVERGY COMMENTS	
4	02.24.2022	CITY COMMENTS	
5	03.22.2022	EVERGY & MEP COMMENTS & SHOPS	
6	06.15.2022	WaterMain Update	

2021

GENERAL LAYOUT PLAN
PHASE I FINAL DEVELOPMENT PLAN

SCANNELL DEVELOPMENT LEE'S SUMMIT LOGISTICS
NORTHWEST CORNER OF TUDOR ROAD AND MAIN STREET

LEE'S SUMMIT, MISSOURI

drawn by: OLSSON
checked by: ENG
approved by: ENG
QA/QC by: ENG
project no.: 021-04157
drawing no.: C_GLP01_02104157.dwg
date:

SHEET C2.00

DWG: F:\2021\04001-04500\021-04157\40-Design\AutoCAD\Final Plans\Sheets\GNCV\PHASE I\C_GLP01_02104157.dwg USER: lmoore
DATE: Jun 29, 2022 3:51pm XREFS: C_PBASE_02104157 C_TBLK_02104157 C_XBASE_02104157

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.

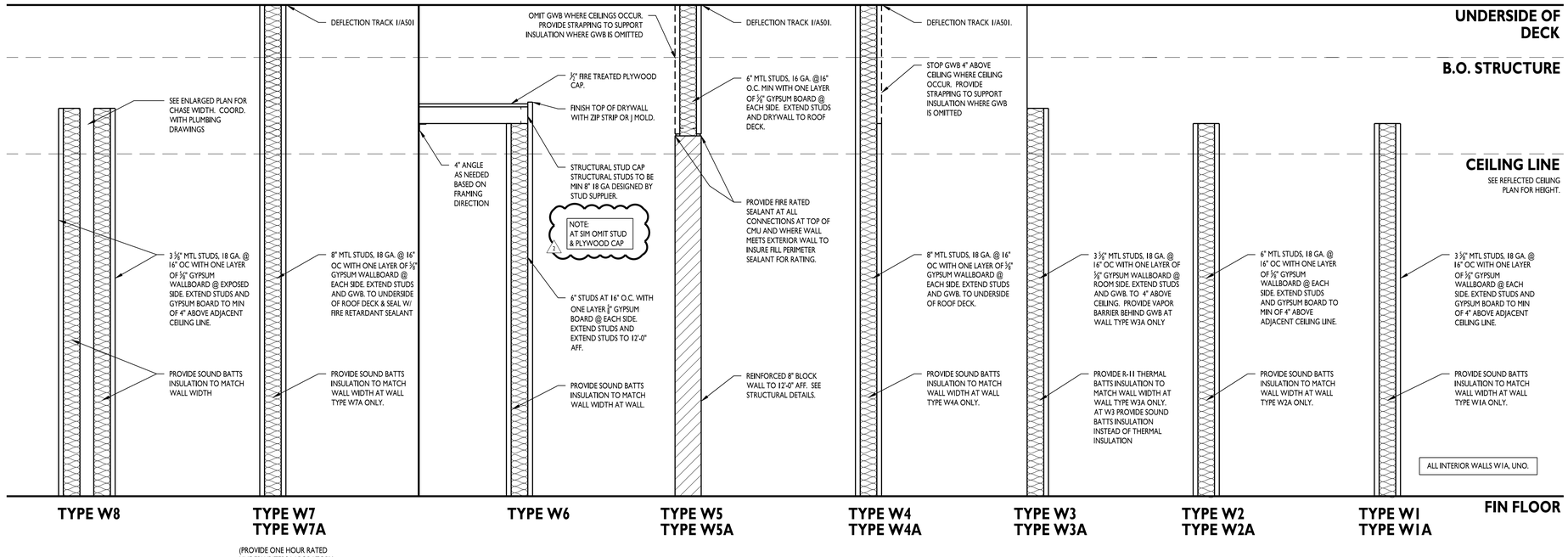
ABBREVIATIONS

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



WALL TYPES

NOT TO SCALE

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

G. DESIGN ALL PARTITIONS TO U240 AT 5 PSF.

H. U.N.O. ALL WALLS TO HAVE ONE LAYER DRYWALL EACH SIDE, LEVEL 4 FINISH.

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
City's Summit, Missouri
12/27/2022

CURRAN
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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
1	PERMIT REVIEW COMMENTS	05.16.22
2	VE REVISIONS	12.20.22

210300

SCOPE NOTES

A001

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.

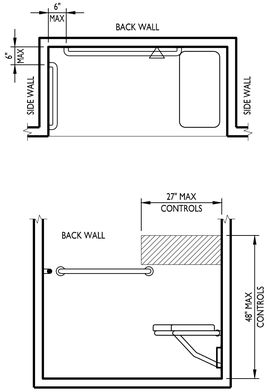
GRAB BARS: GRAB BARS SHALL BE 33" TO 36" AFF THE GRAB BAR BEHIND THE WATER CLOSET SHALL BE 36" LONG AND NO MORE THAN 6" OF OF THE SIDE WALL. THE SIDE WALL GRAB BAR SHALL BE 42" LONG AND 12" OFF THE BACK WALL.

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.

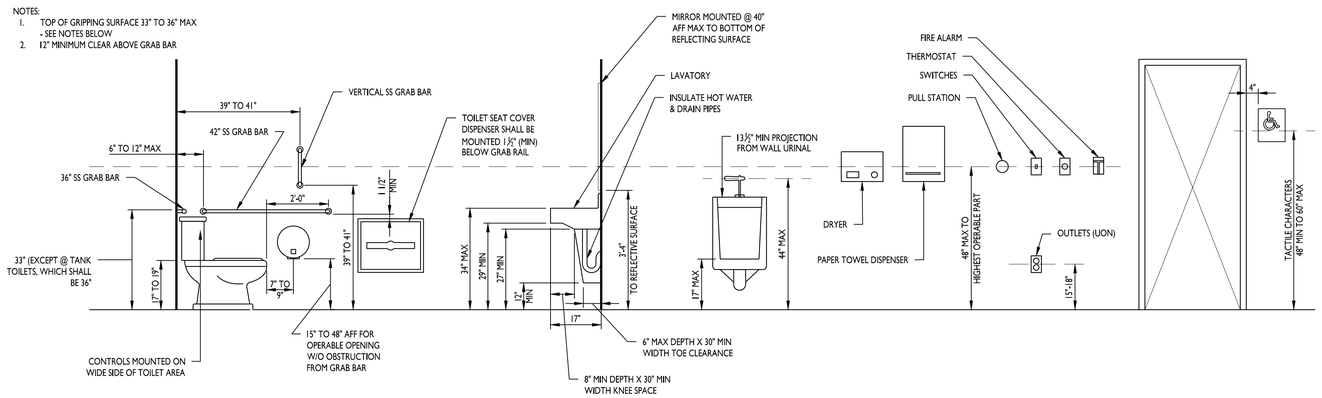
SOAP DISPENSER: SOAP DISPENSERS SHALL BE MOUNTED NO HIGHER THAN 48" AFF.

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



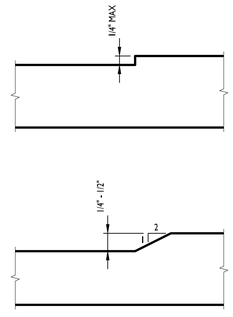
SHOWER STALL DIMENSIONS 8

1/2" = 1'-0"



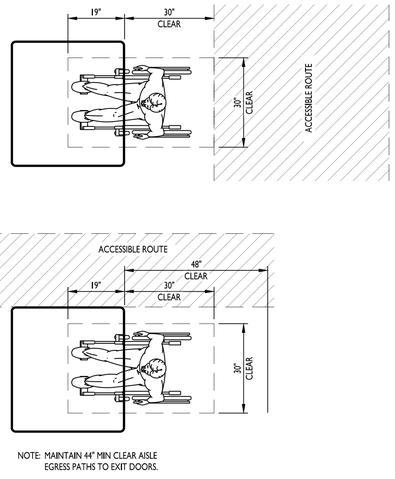
TYPICAL MOUNTING HEIGHTS 1

1/2" = 1'-0"



FLOOR TRANSITIONS 9

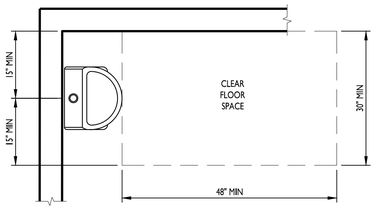
6" = 1'-0"



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

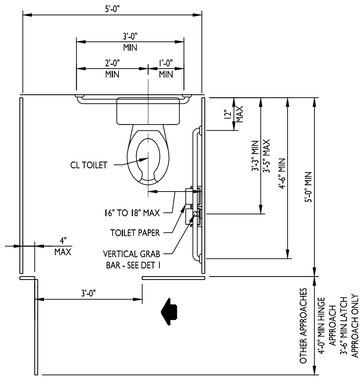
ACCESSIBLE ROUTES 6

1/2" = 1'-0"



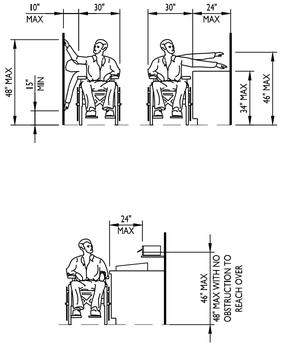
URINAL CLEAR SPACE 4

3/4" = 1'-0"



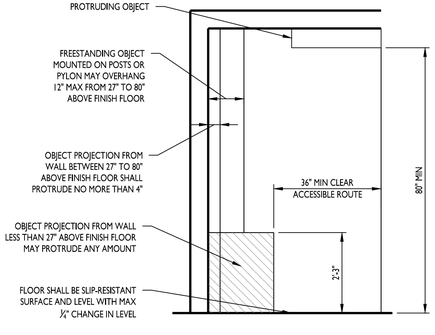
TOILET STALL DIMENSIONS 2

1/2" = 1'-0"



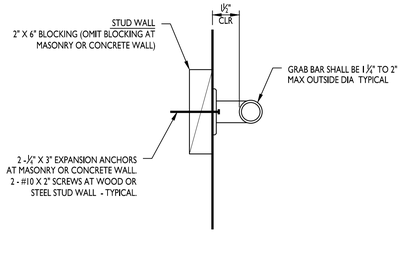
REACH RANGES 10

1/4" = 1'-0"



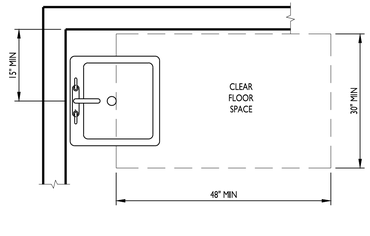
VERTICAL CLEARANCES 7

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

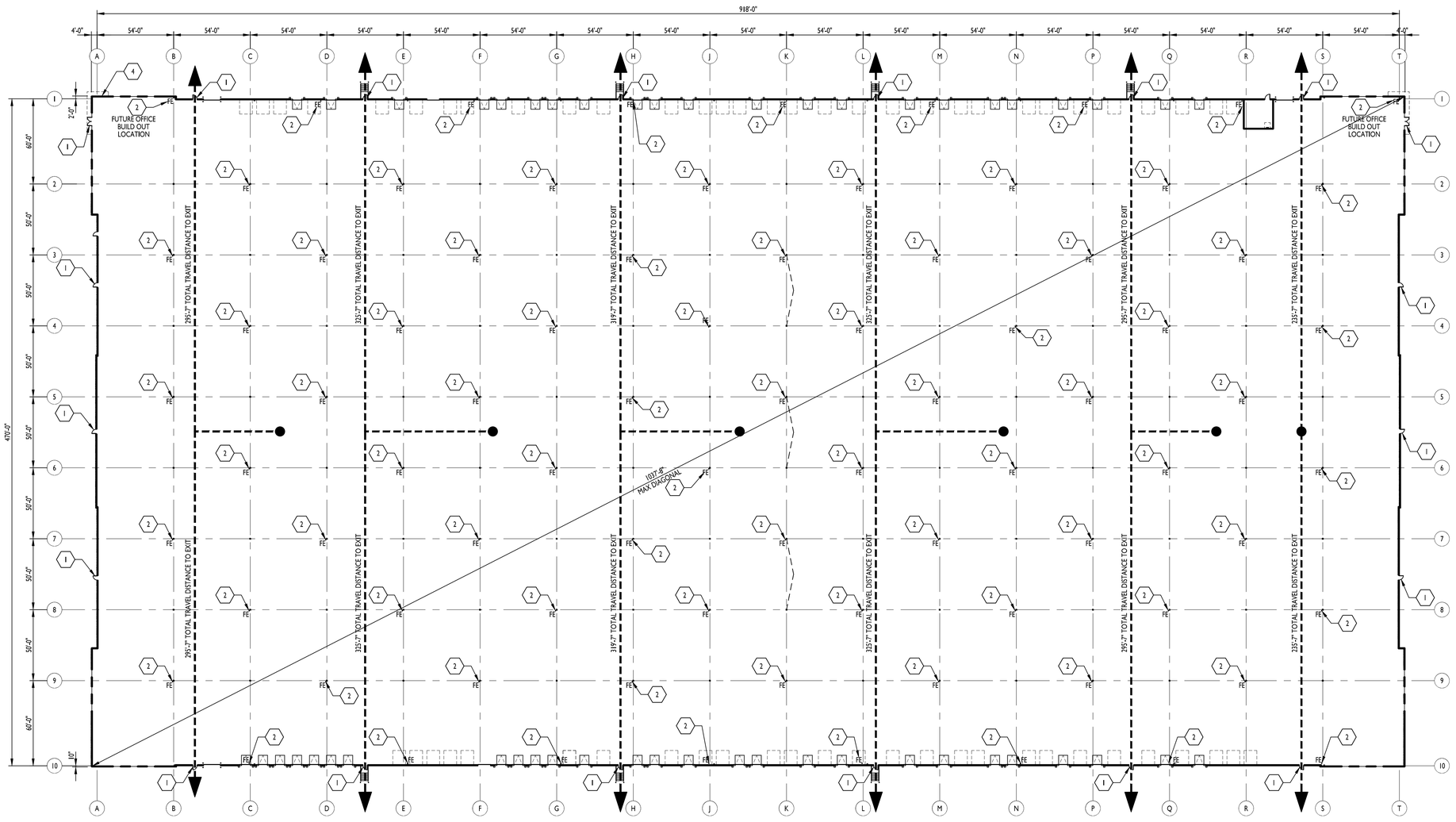
ISSUE DATES

PERMIT SET	02.18.22

210300

TYPICAL ACCESSIBILITY DETAILS

A002

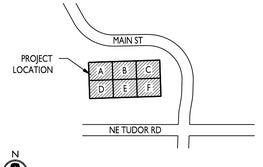


LIFE SAFETY PLAN 1" = 40'

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 LABELED "PUMP ROOM". SEE DOOR ID NOTES.
6. ONE-HOUR RATED PUMP ROOM. SEE FLOOR PLAN AND WALL TYPES.



KEY PLAN

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
12/27/2022

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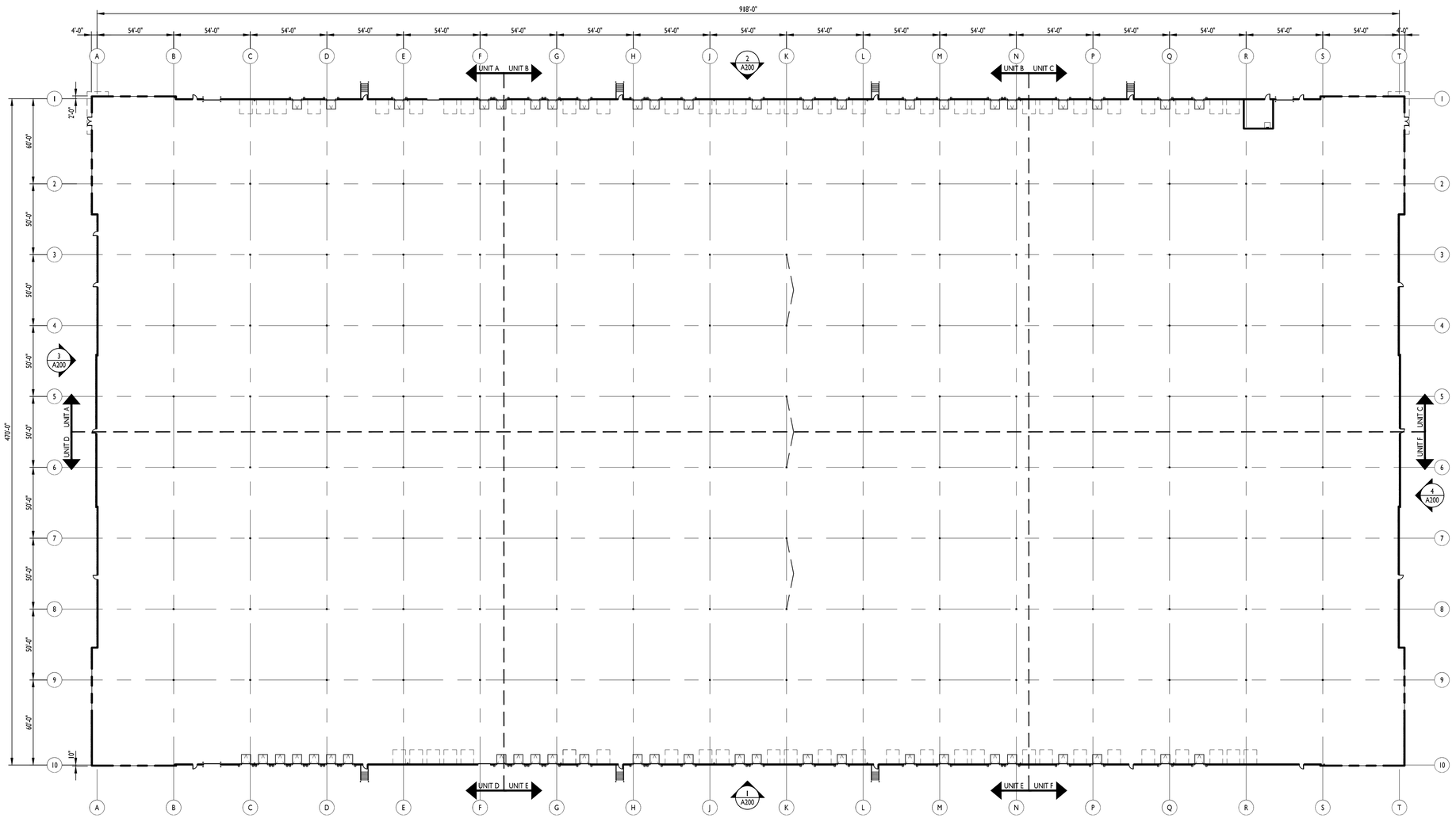
LIFE SAFETY PLAN

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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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

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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

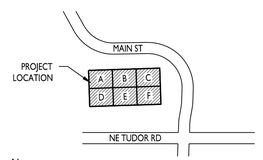
ISSUE DATES

PERMIT SET	02.18.22

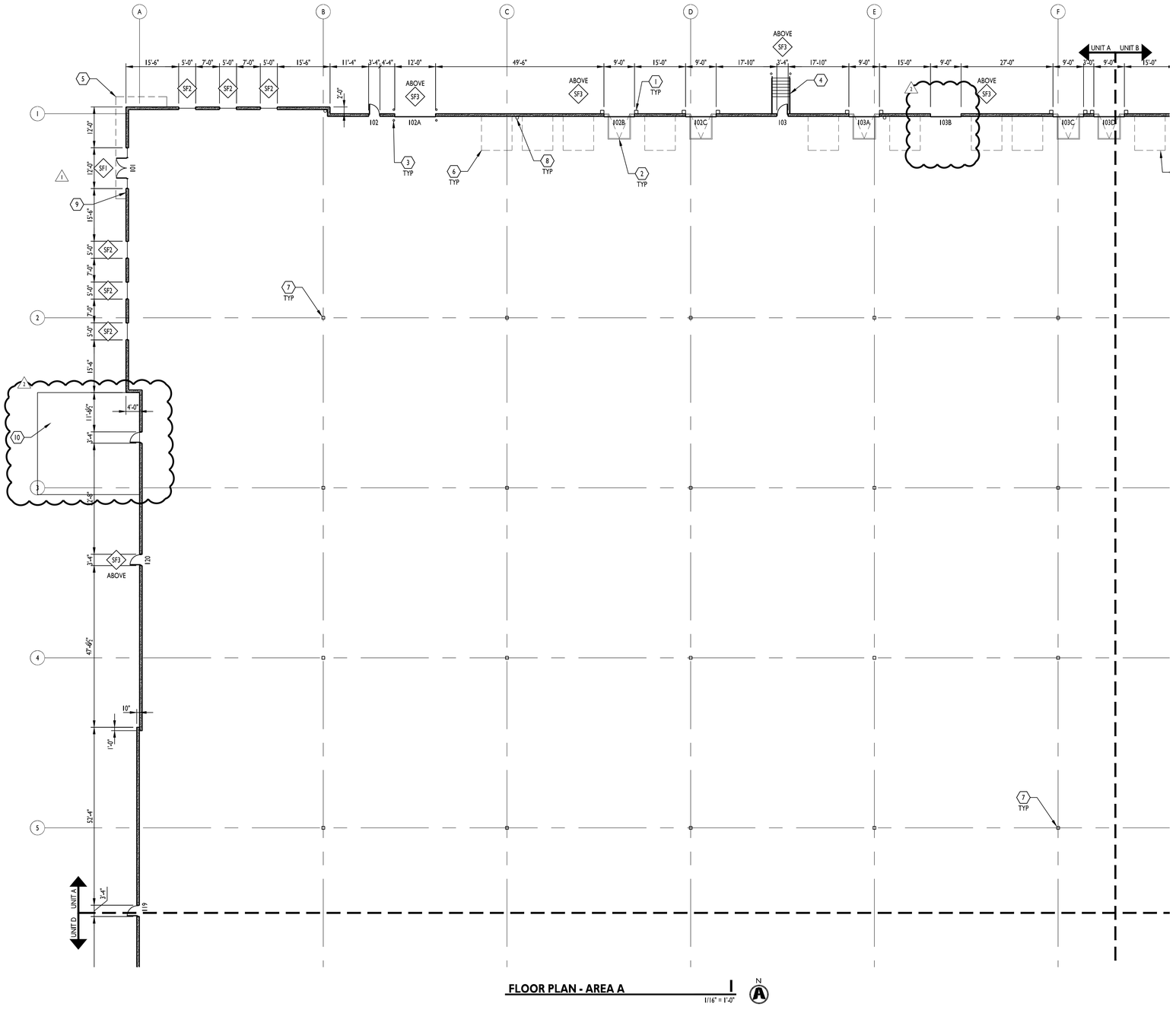
210300

OVERALL FLOOR PLAN

A101



KEY PLAN



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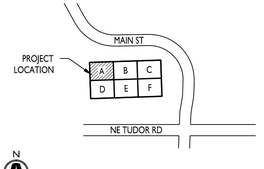
M. ALL EXIT DOORS TO HAVE TACTILE EXIT SIGNAGE PER 703.4 OF THE ANSI 117.1 2009

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
9. KNOX BOX LOCATION. COORDINATE WITH FIRE DEPARTMENT.
10. 30' X 30' CONCRETE PATIO. REFER TO CIVIL DRAWINGS FOR TYPICAL SIDEWALK CONCRETE SPEC, JOINT SPACING, AND CONTINUATION OF ANY WALKS FROM PATIO TO PARKING LOT. PROVIDE SHAD STRUCTURE AT NORTH EAST CORNER OF PATIO. SHADE STRUCTURE TO BE ENGINEERED BY SUPPLIER.



KEY PLAN

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SCANNELL PROPERTIES

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LEE'S SUMMIT, MO 64086

ISSUE DATES

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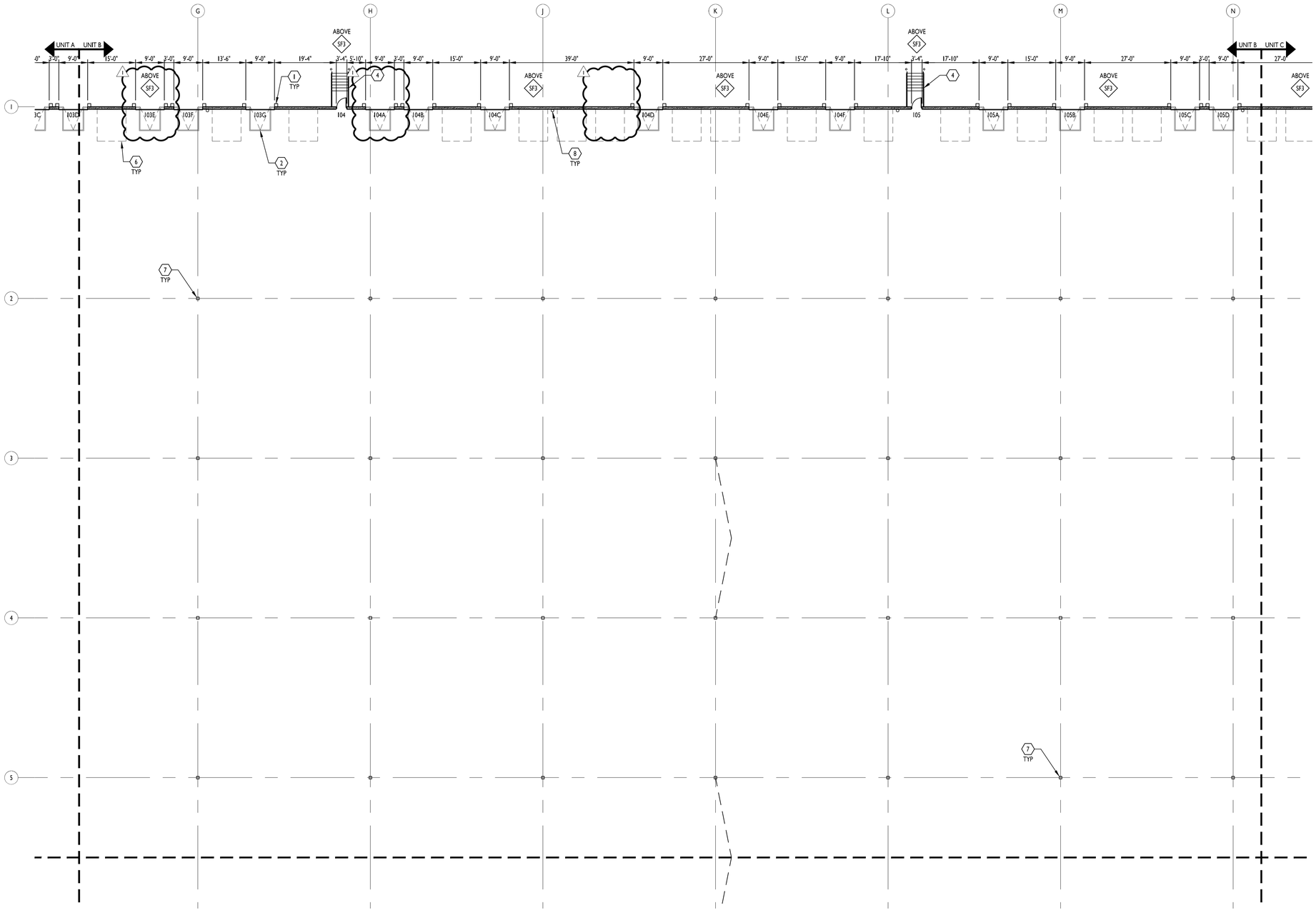
1	PERMIT REVIEW COMMENTS	05.16.22
2	TENANT COORDINATION	06.06.22

210300

FLOOR PLAN
AREA A

A102



FLOOR PLAN - AREA B — 1/16" = 1'-0"

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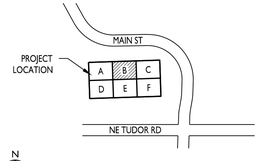
9. KNOX BOX LOCATION. COORDINATE WITH FIRE DEPARTMENT.



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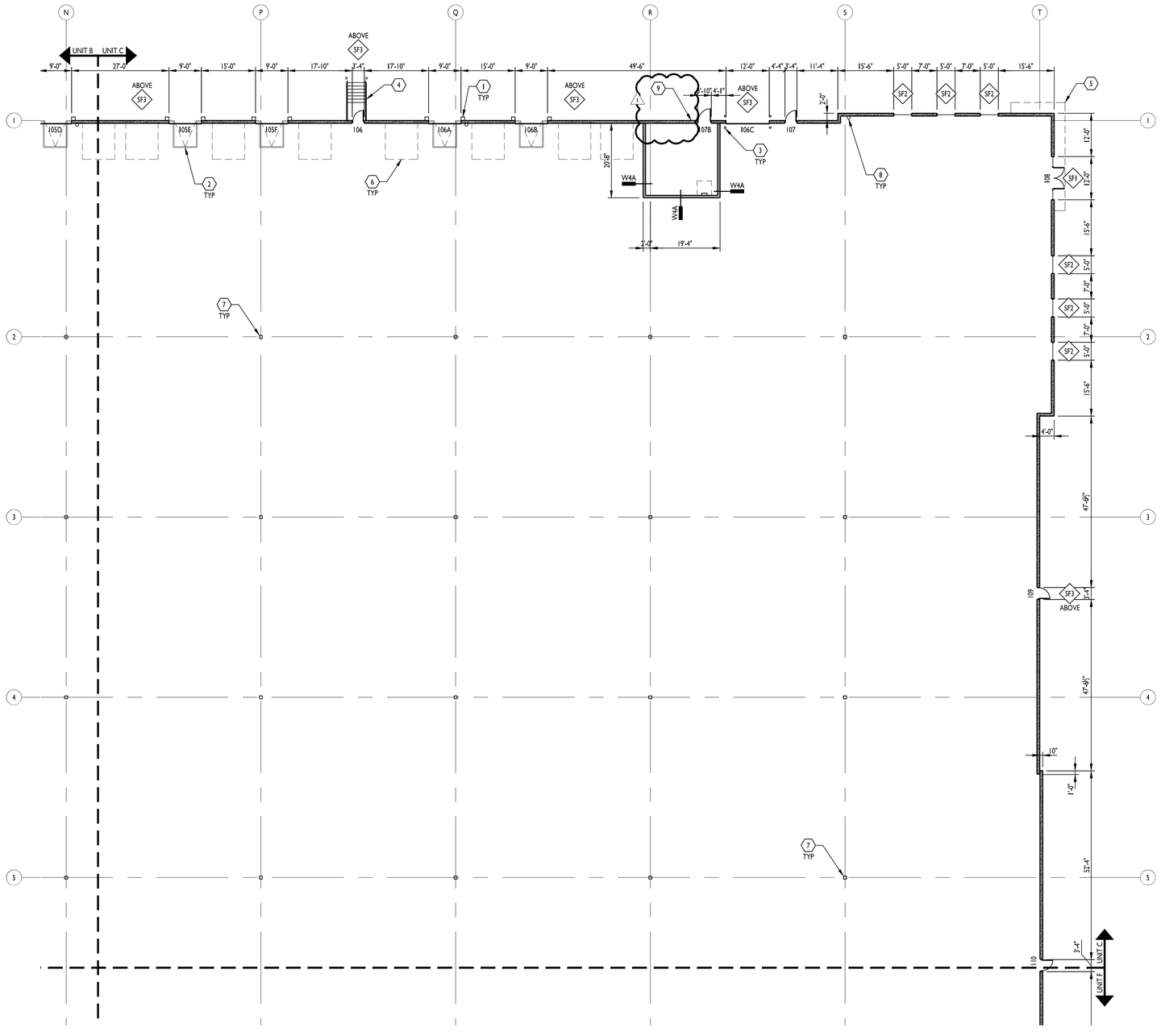
210300

FLOOR PLAN
AREA B

A103



FLOOR PLAN - AREA C

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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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.
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7. STEEL COLUMNS PROVIDE PANTED FINISH.
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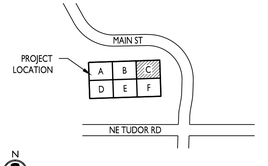
9. KNOX BOX LOCATION. COORDINATE WITH FIRE DEPARTMENT.



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Development Services Department
Lee's Summit, Missouri
12/27/2022

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

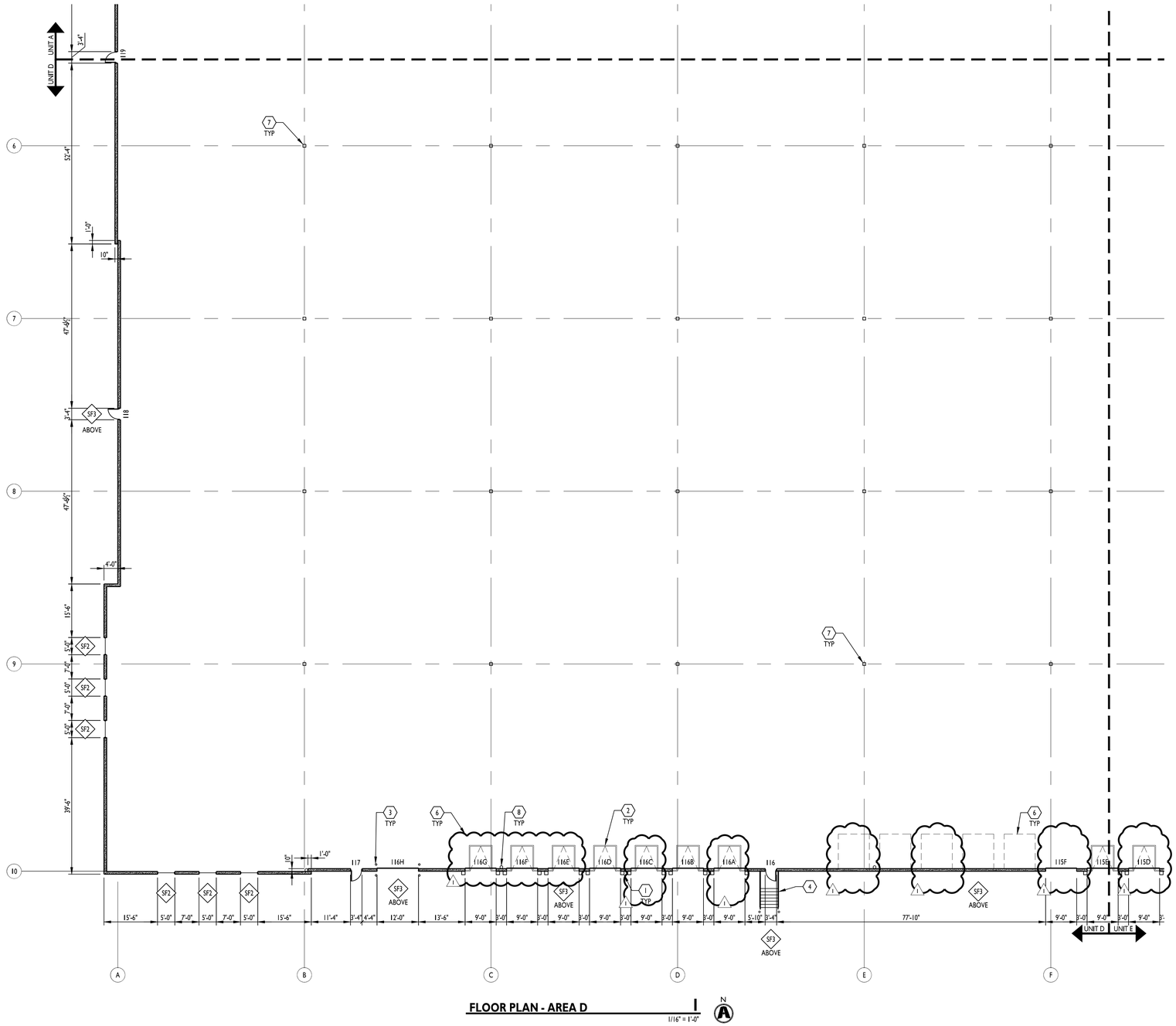
ISSUE DATES

	PERMIT SET	02.18.22
1	PERMIT REVIEW COMMENTS	05.16.22

210300

FLOOR PLAN
AREA C

A104



FLOOR PLAN - AREA D

1/16" = 1'-0"

GENERAL NOTES

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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.

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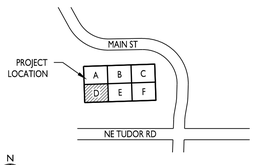

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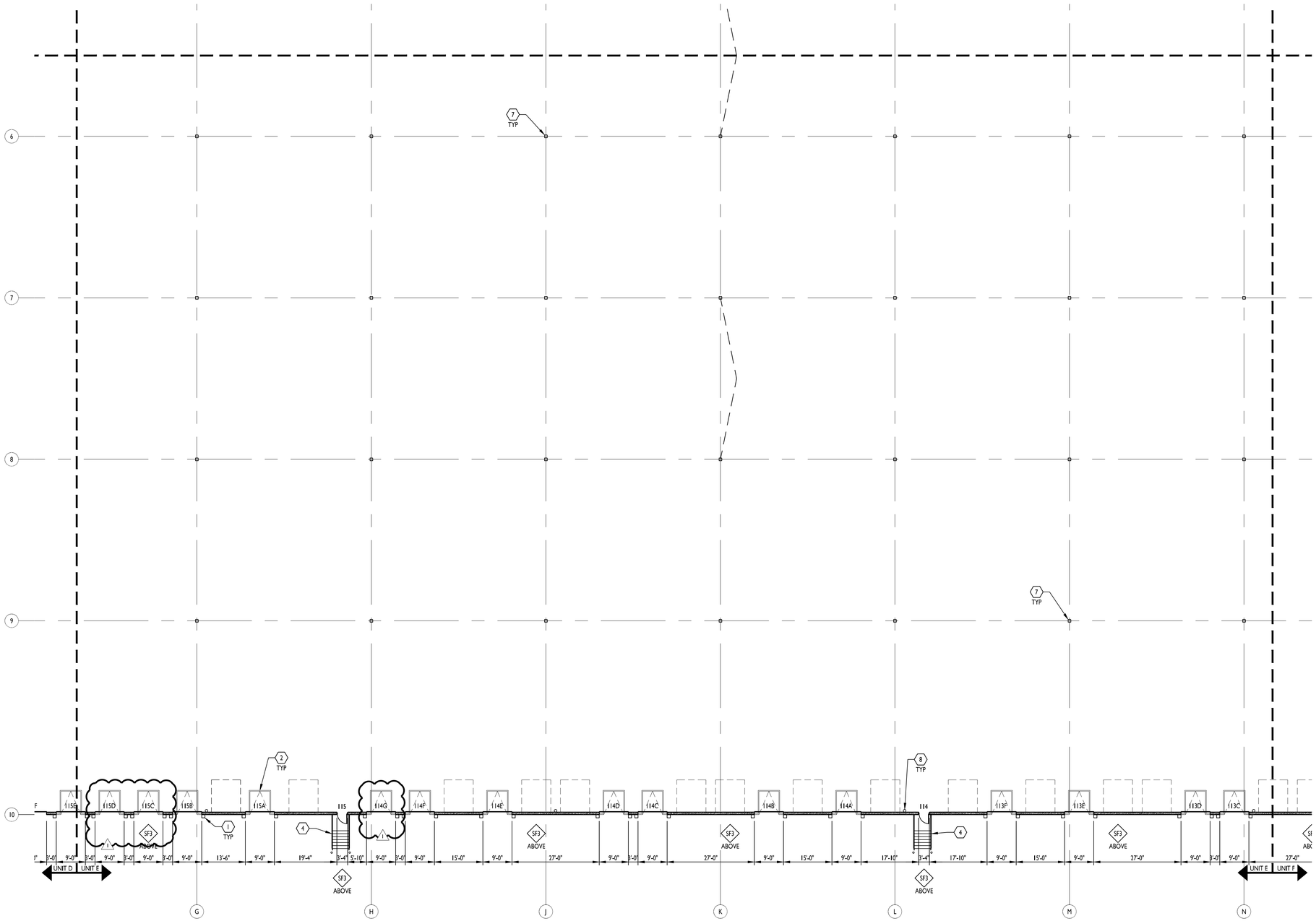
ISSUE DATES

	PERMIT SET	02.18.22
1	TENANT COORDINATION	06.06.22

210300

FLOOR PLAN
AREA D

A105



FLOOR PLAN - AREA E 1

1/16" = 1'-0"

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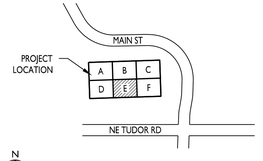

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ISSUE DATES

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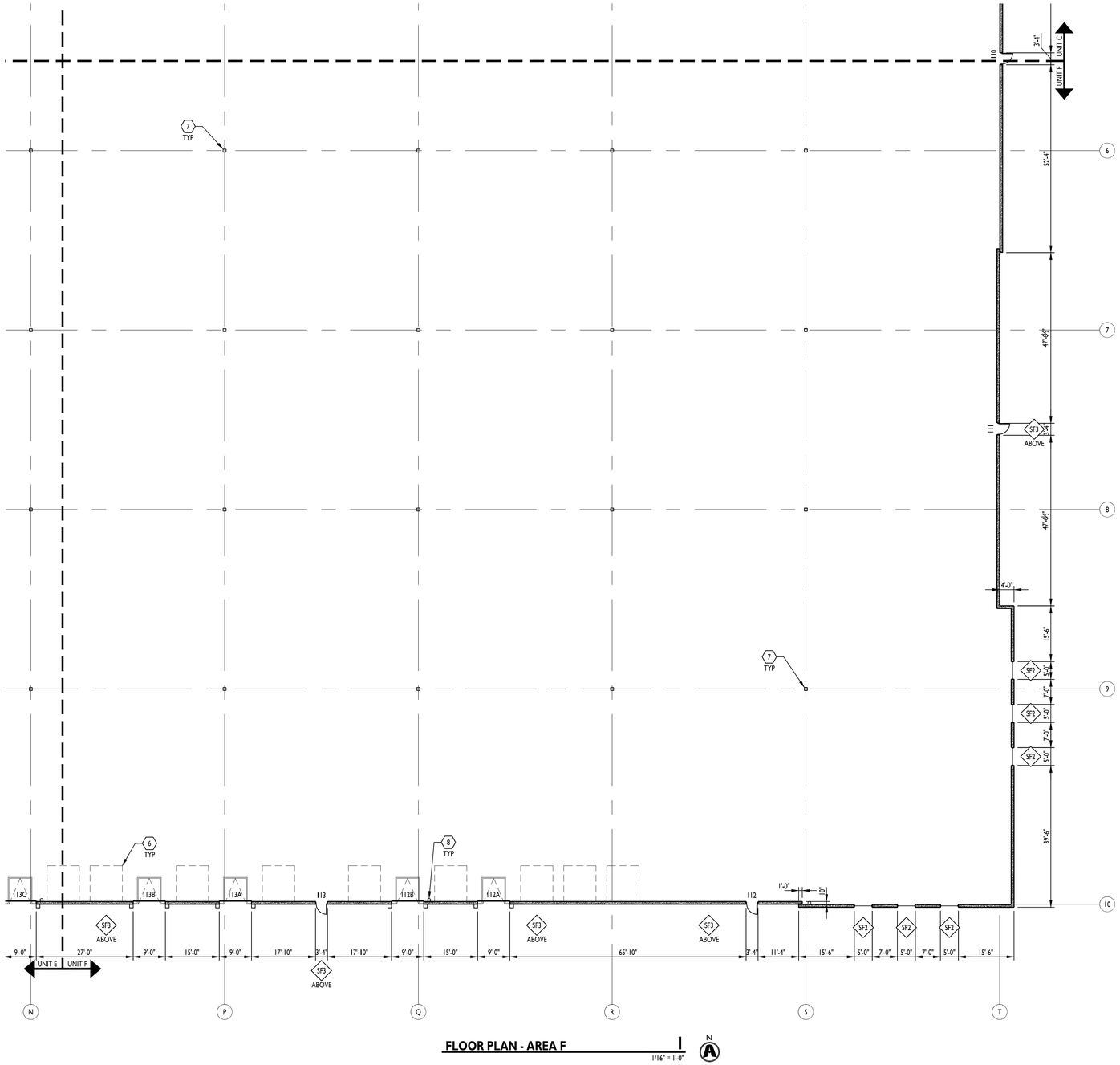
1	TENANT COORDINATION	06.06.22

210300

FLOOR PLAN
AREA E

A106



FLOOR PLAN - AREA F

1/16" = 1'-0"

N

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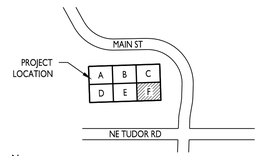

N

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INDIANAPOLIS, IN 46216
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CERTIFICATION

PROJECT INFORMATION

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BUILDING A LOT 1

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

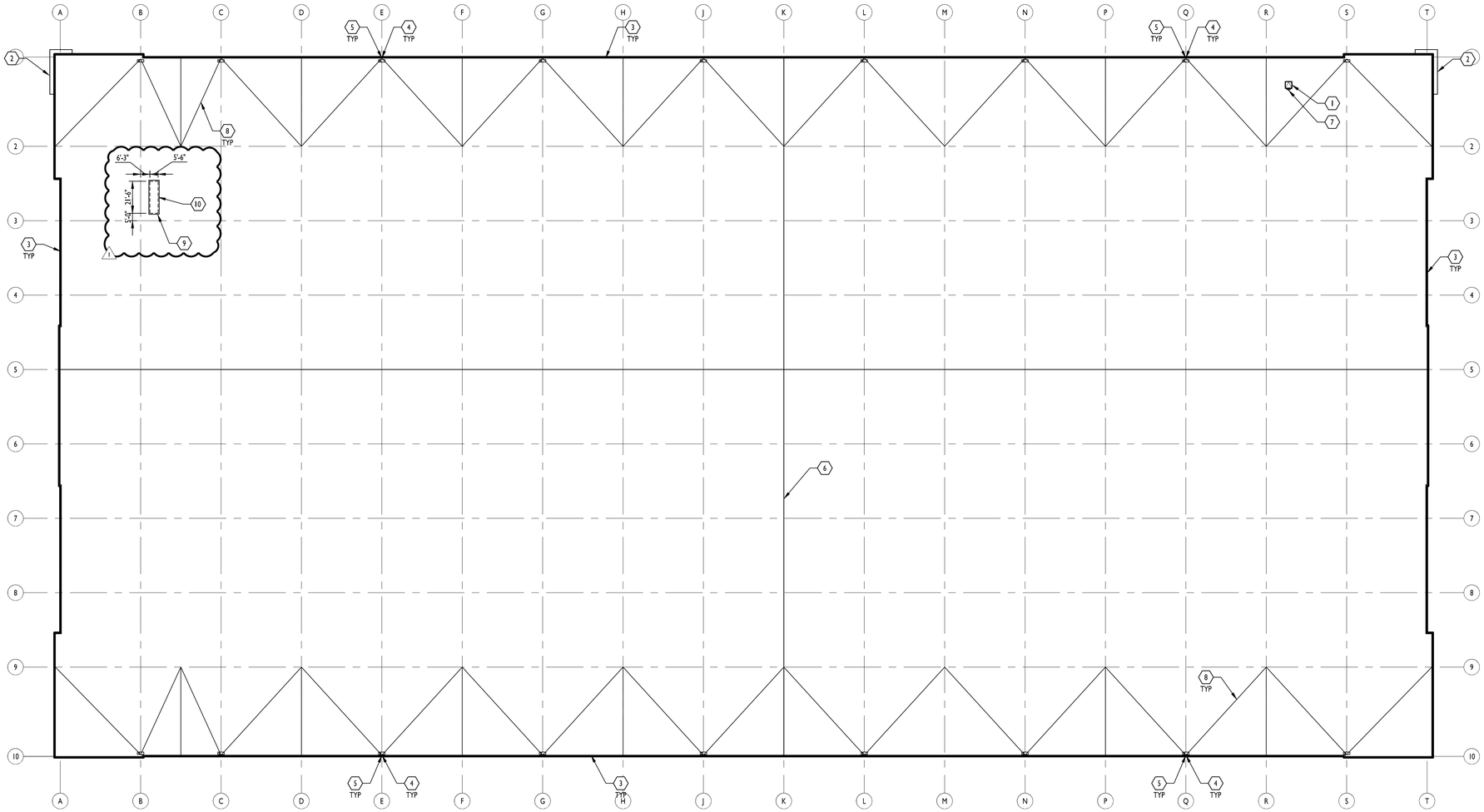
ISSUE DATES

PERMIT SET	02.18.22

210300

FLOOR PLAN
AREA F

A107



ROOF PLAN
1" = 40'

N

ROOF PLAN LEGEND

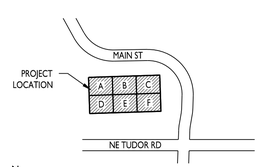
DENOTES TAPERED INSULATION OR ROOF CRICKETS TO ROOF DRAIN LOCATIONS. SLOPE MIN OF ¼"/FOOT AS INDICATED BY ARROWS OR TWICE THE AMOUNT OF THE UNDERLYING DECK WHICHEVER IS GREATER.

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
9. ROOF ACCESS PENTHOUSE CONSTRUCTED WITH CFS FRAMING AND CLAD IN EXTERIOR SHEATHING AND INSULATED METAL PANELS. COORDINATE FINAL LOCATION WITH ROOF FRAMING AND STAIRS BELOW
10. DIMENSIONS SHOWN ARE TO INTERIOR OF DECK ANGLE (CLEAR OPENING DIMENSION). ADJUST OPENING TO COORDINATE WITH JOISTS AS REQUIRED.



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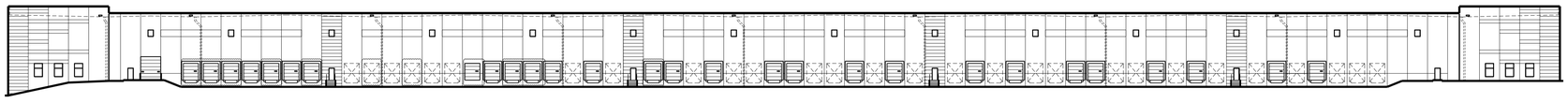
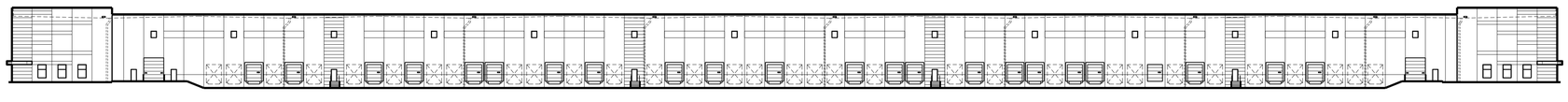
ROOF PLAN

A120



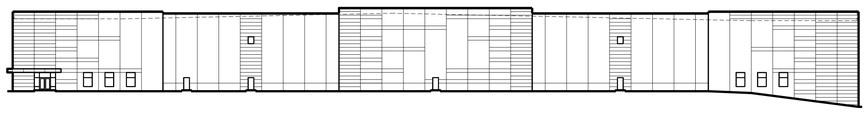
OVERALL SOUTH ELEVATION **1**

1" = 40'



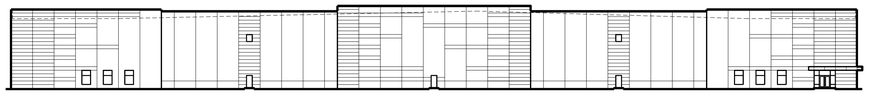
OVERALL NORTH ELEVATION **2**

1" = 40'



OVERALL WEST ELEVATION **3**

1" = 40'



OVERALL EAST ELEVATION **4**

1" = 40'

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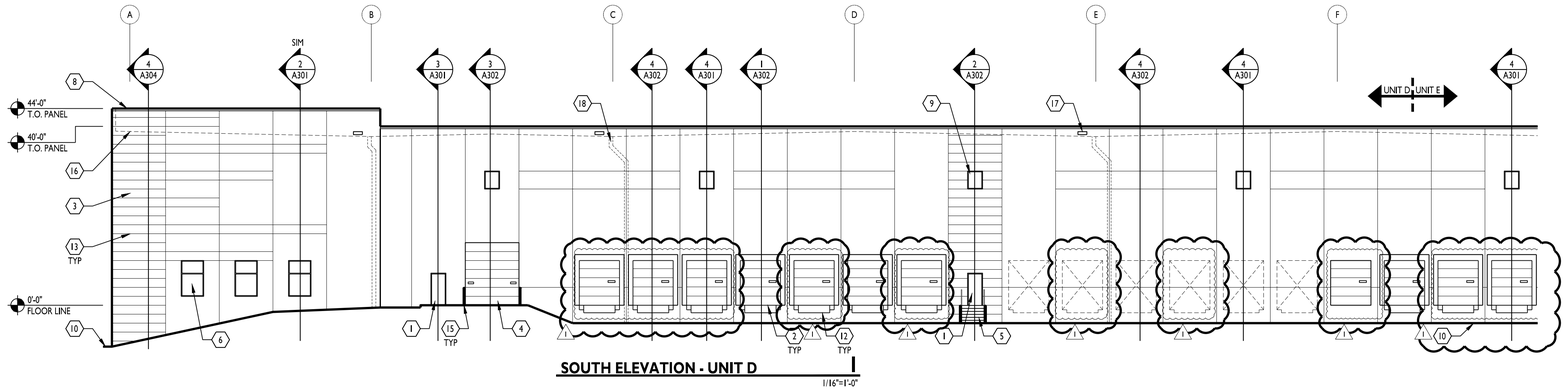
PERMIT SET	02.18.22

210300

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 A24VW8300
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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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

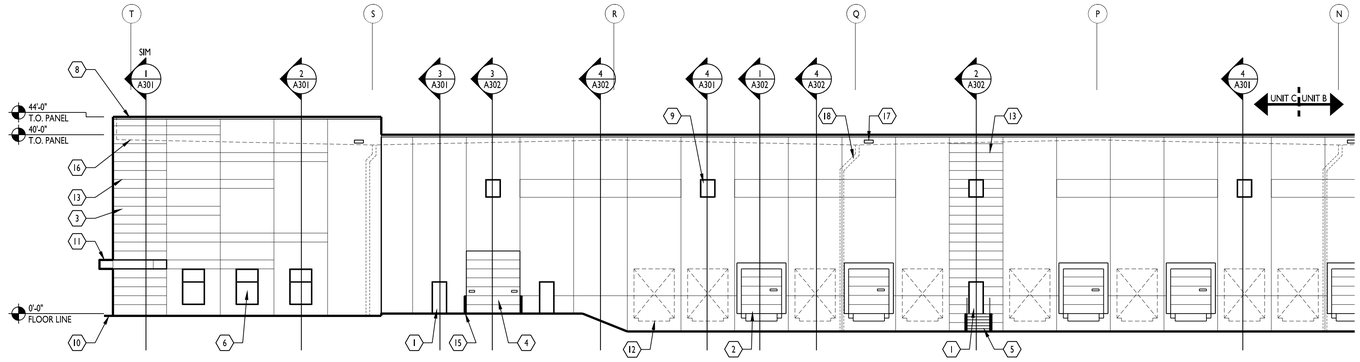
ISSUE DATES

	PERMIT SET	02.18.22
1	TENANT COORDINATION	06.06.22

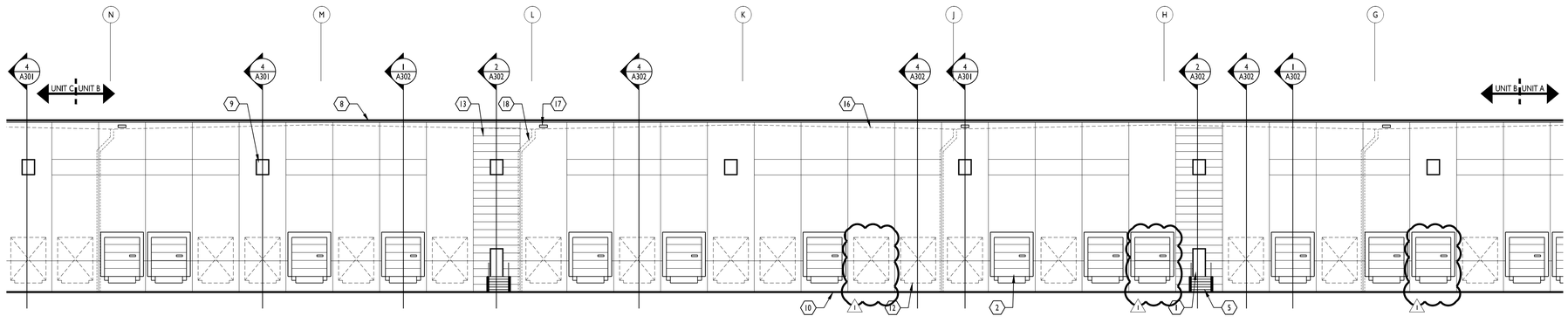
210300

EXTERIOR ELEVATIONS

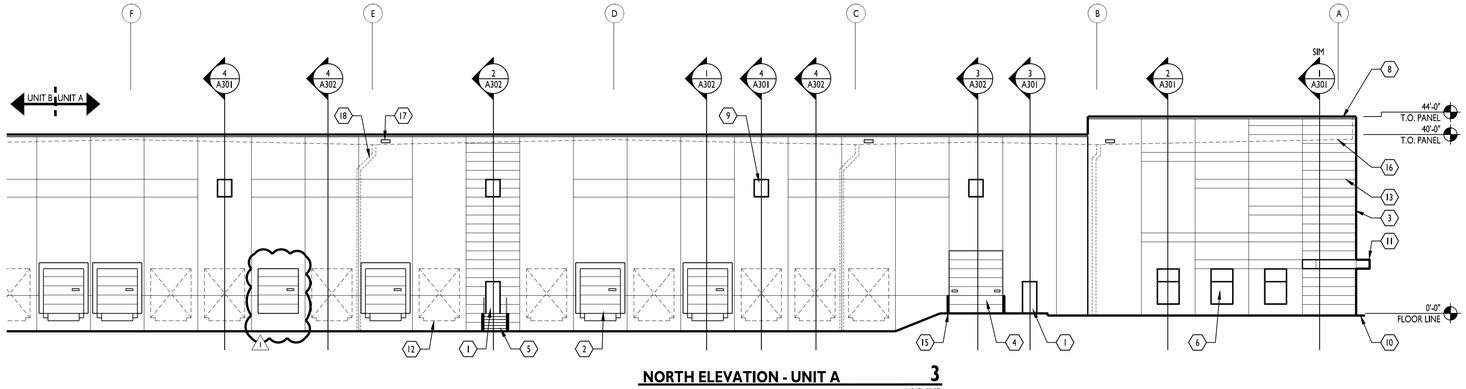
A201



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"

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.

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Development Services Department
Lee's Summit, Missouri
12/27/2022

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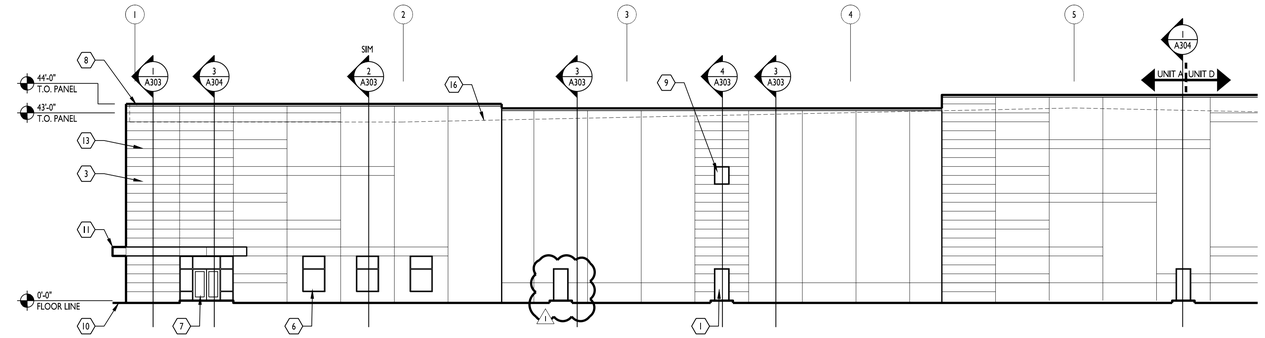
ISSUE DATES

	PERMIT SET	02.18.22
1	TENANT COORDINATION	06.06.22

210300

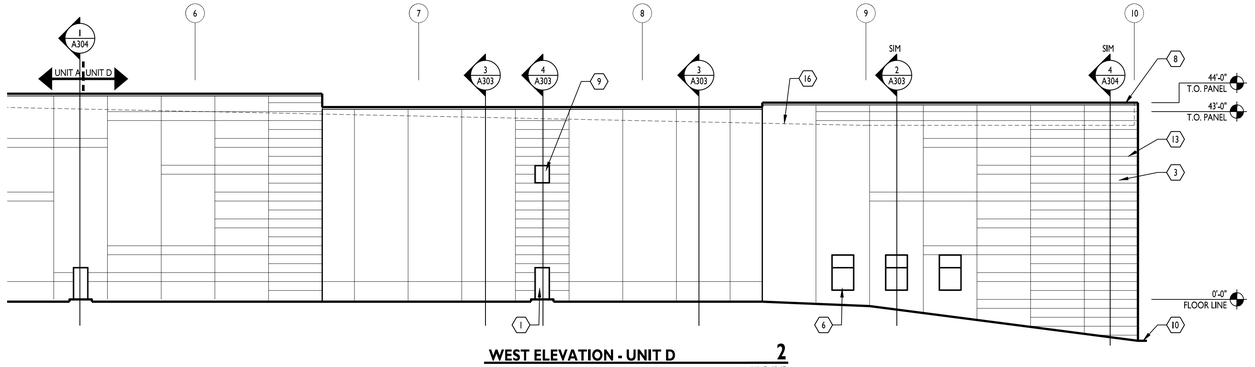
EXTERIOR ELEVATIONS

A202



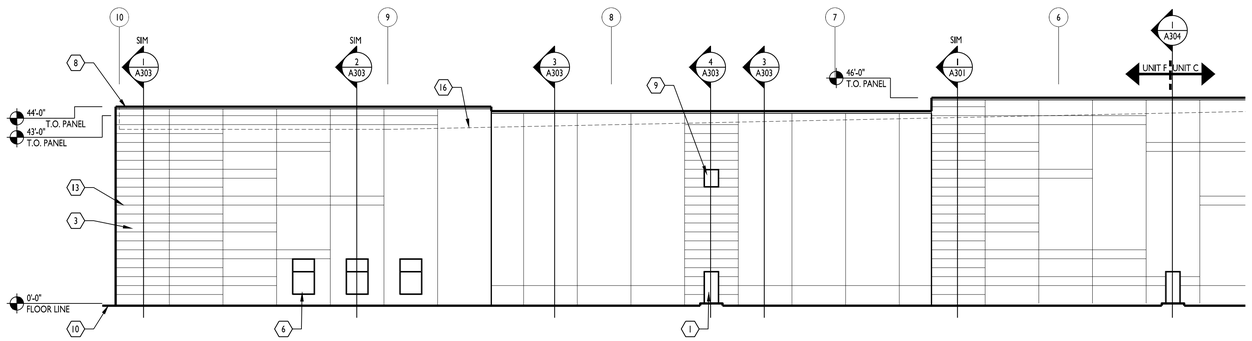
WEST ELEVATION - UNIT A **1**

1/16"=1'-0"



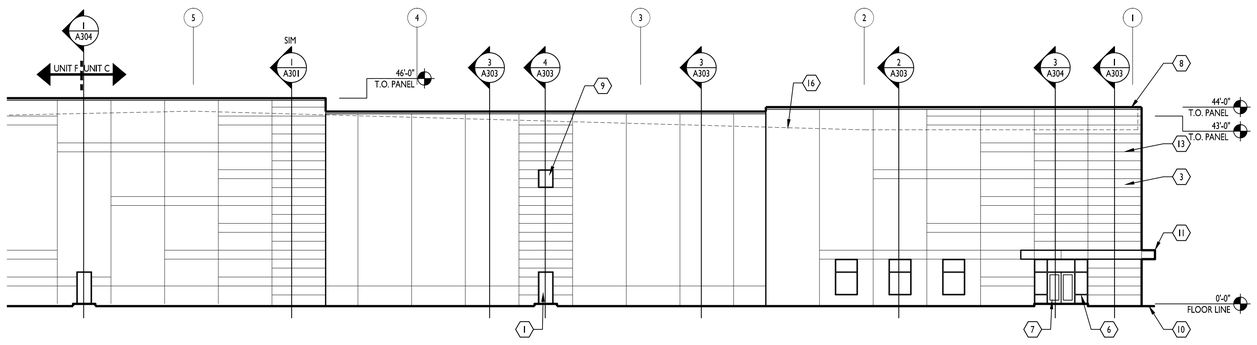
WEST ELEVATION - UNIT D **2**

1/16"=1'-0"



EAST ELEVATION - UNIT F **3**

1/16"=1'-0"



EAST ELEVATION - UNIT C **4**

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Development Services Department
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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

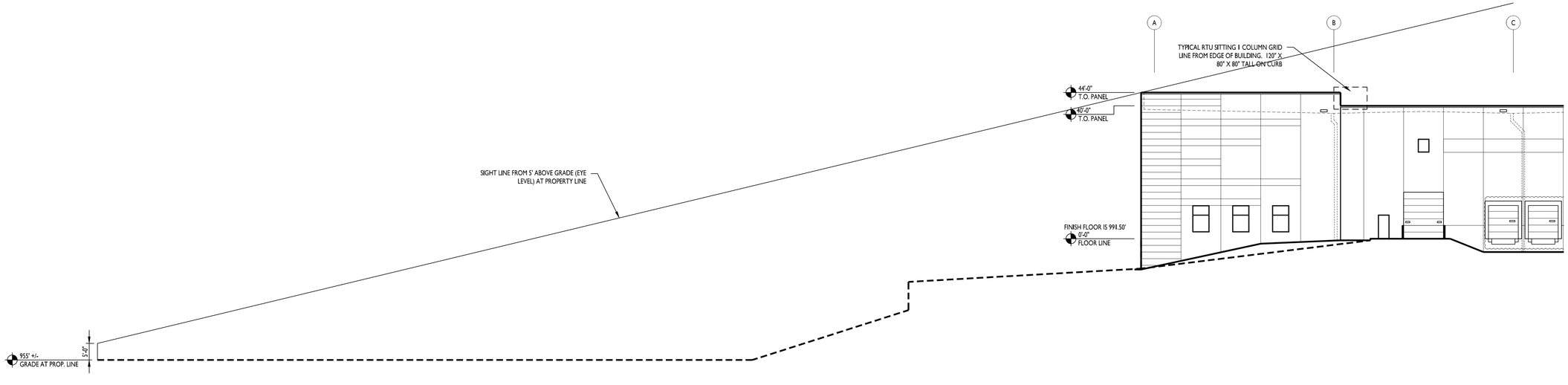
ISSUE DATES

	PERMIT SET	02.18.22
1	TENANT COORDINATION	06.06.22

210300

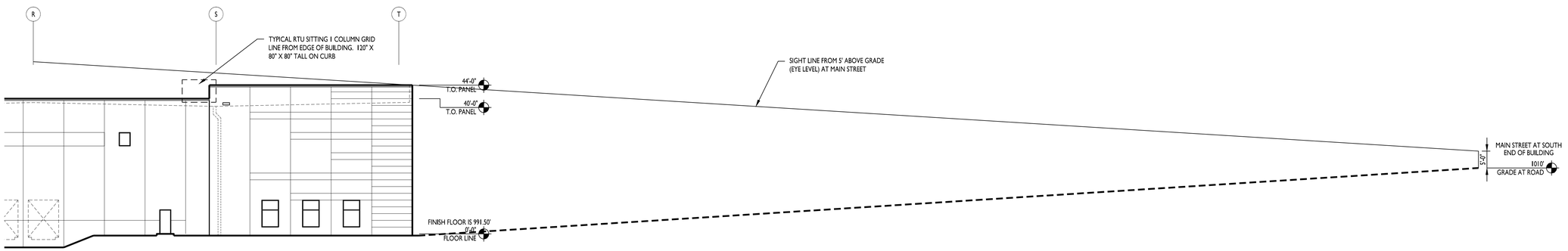
EXTERIOR ELEVATIONS

A203



SOUTH ELEVATION - UNIT D 1

1/16"=1'-0"



SOUTH ELEVATION - UNIT F 2

1/16"=1'-0"

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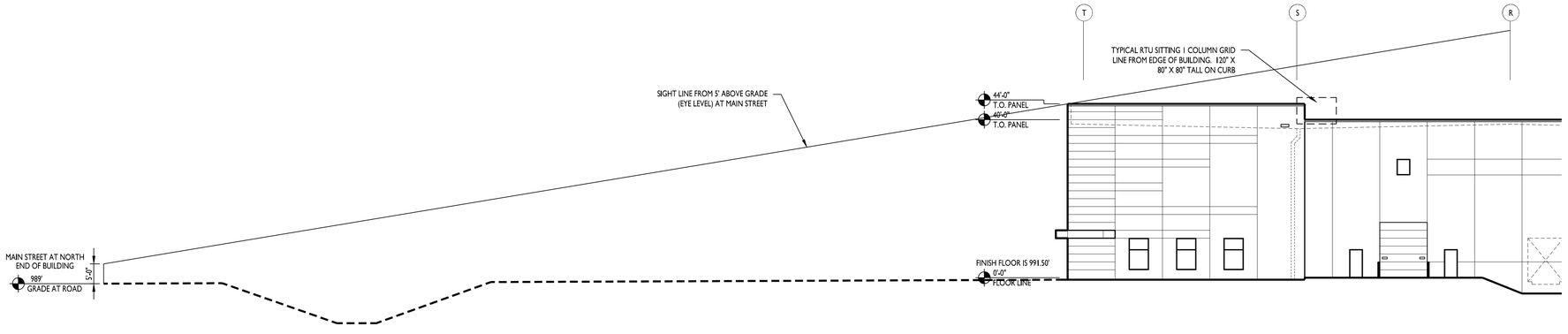
ISSUE DATES

	PERMIT SET	02.18.22
1	PERMIT REVIEW COMMENTS	05.16.22

210300

EXTERIOR ELEVATIONS

A204



NORTH ELEVATION - UNIT C 1

1/16"=1'-0"

NORTH ELEVATION - UNIT A 2

1/16"=1'-0"

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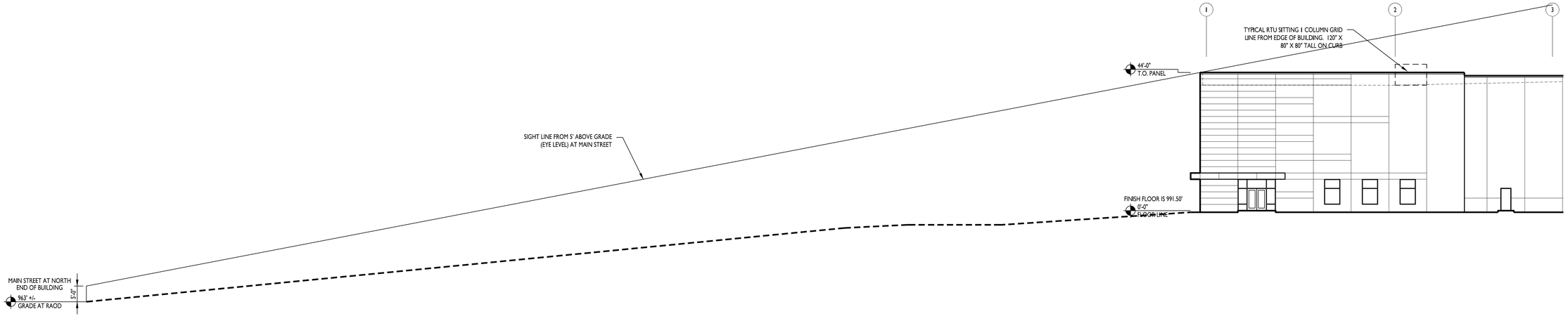
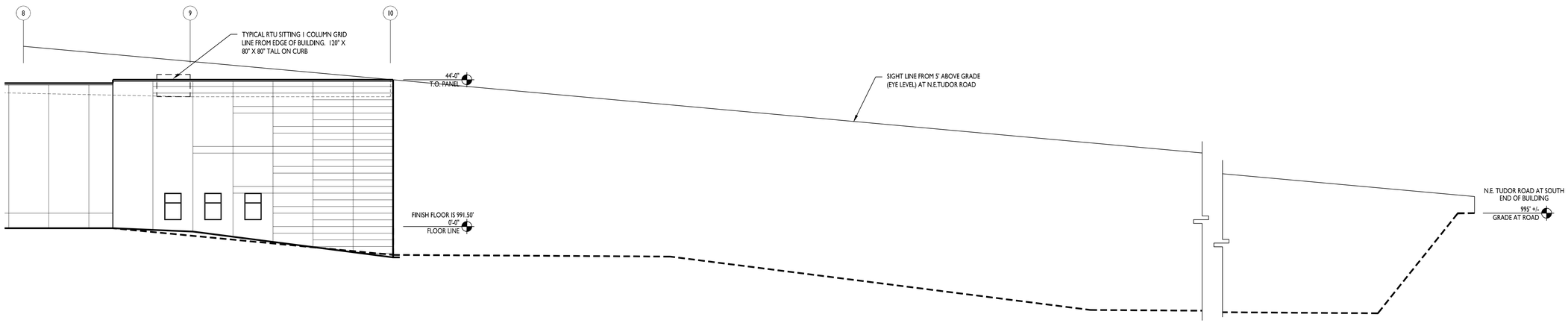
EXTERIOR ELEVATIONS

A205



WEST ELEVATION - UNIT A 1

1/16"=1'-0"



WEST ELEVATION - UNIT D 2

1/16"=1'-0"

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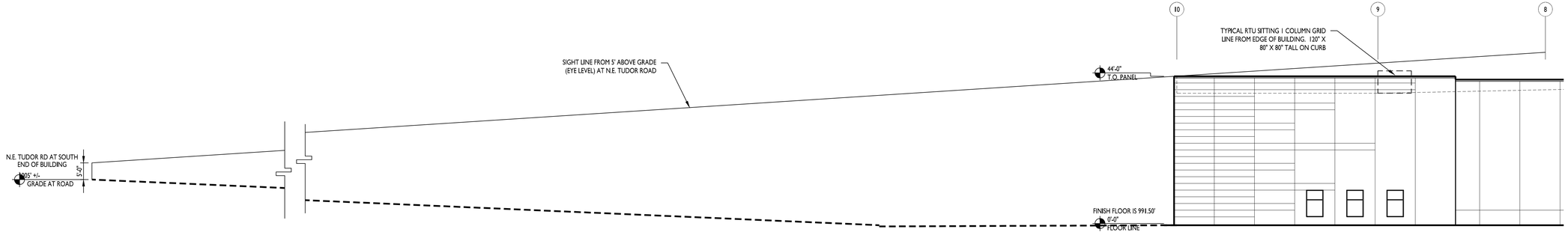
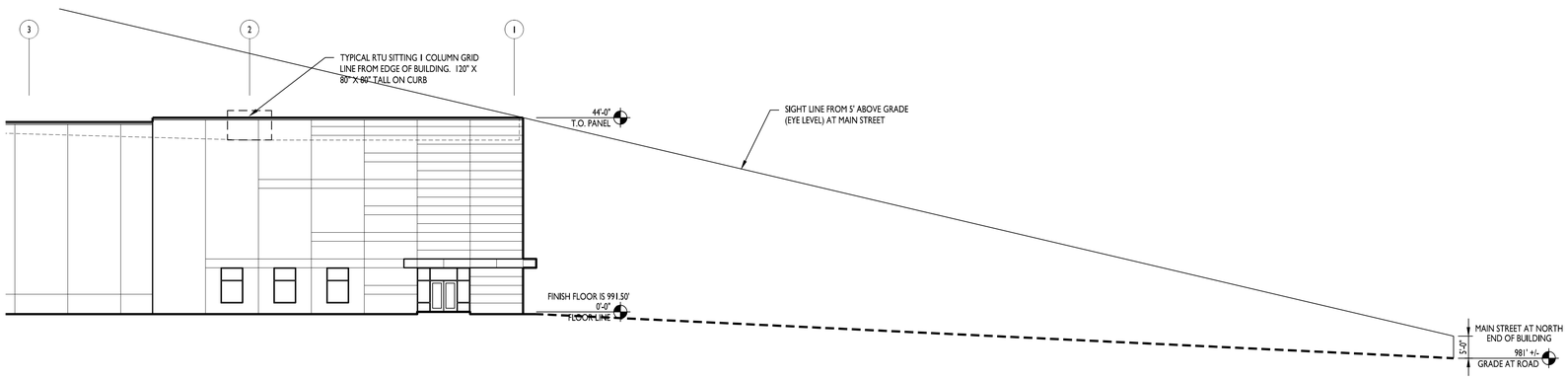
EXTERIOR ELEVATIONS

A206



EAST ELEVATION - UNIT F 1

1/16"=1'-0"



EAST ELEVATION - UNIT C 2

1/16"=1'-0"

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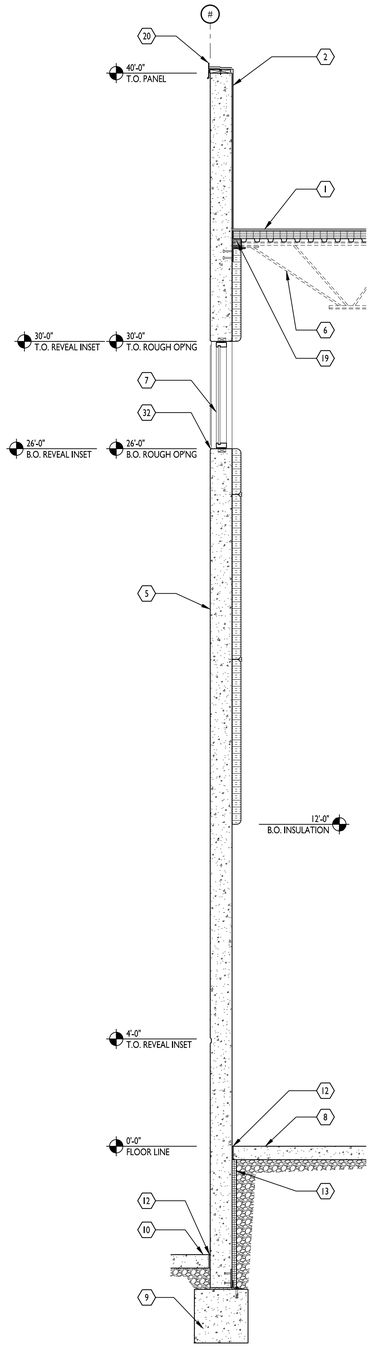
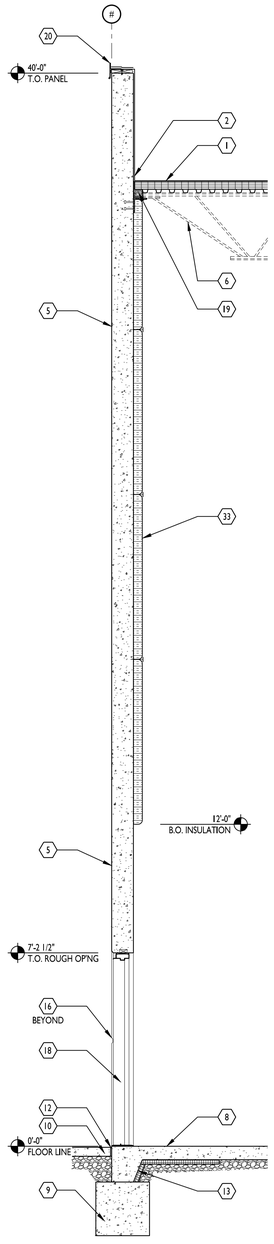
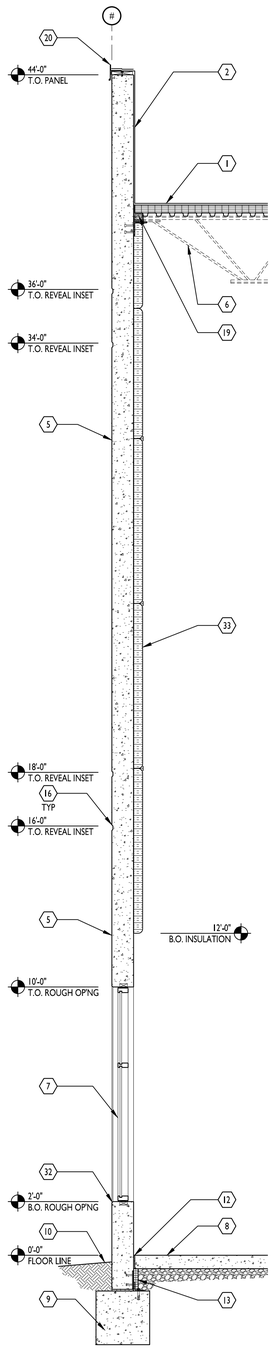
A207



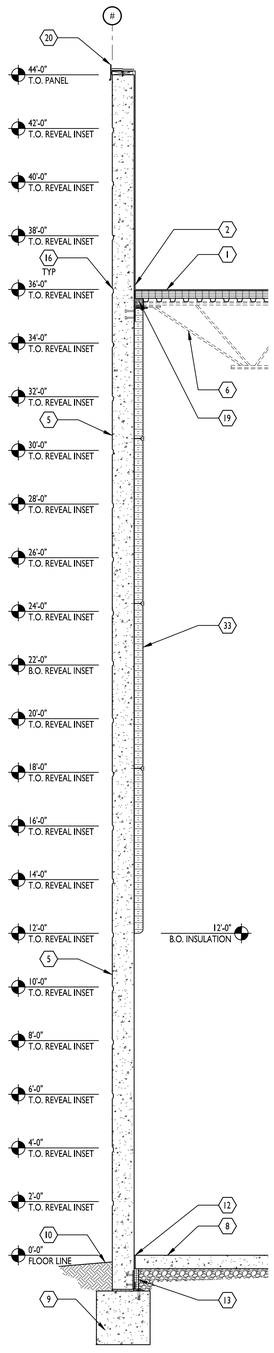
SECTION 4
3/8" = 1'-0"



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
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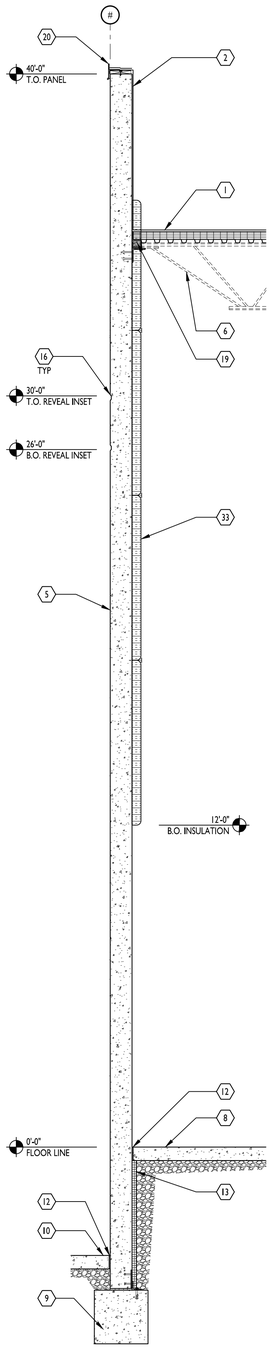

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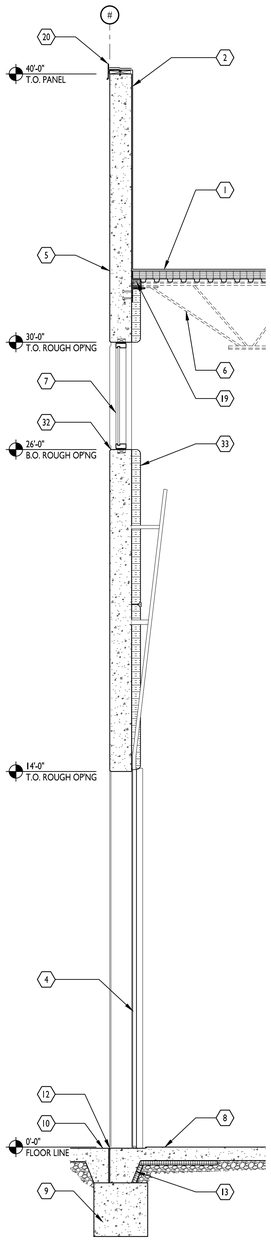

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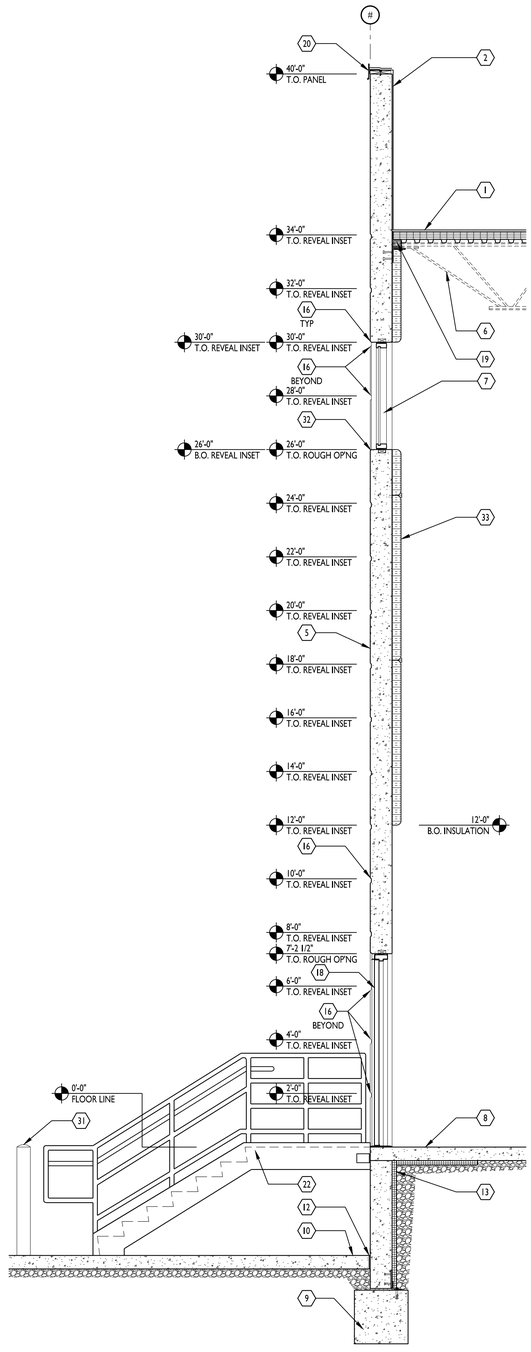

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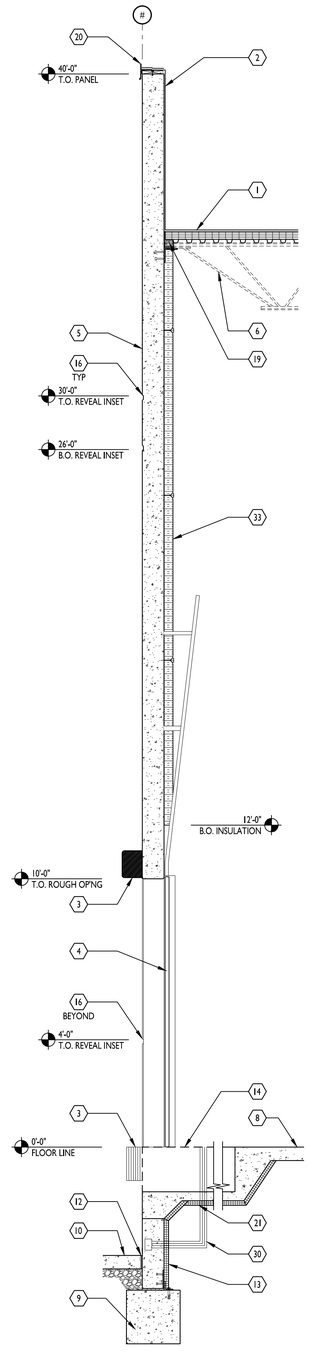

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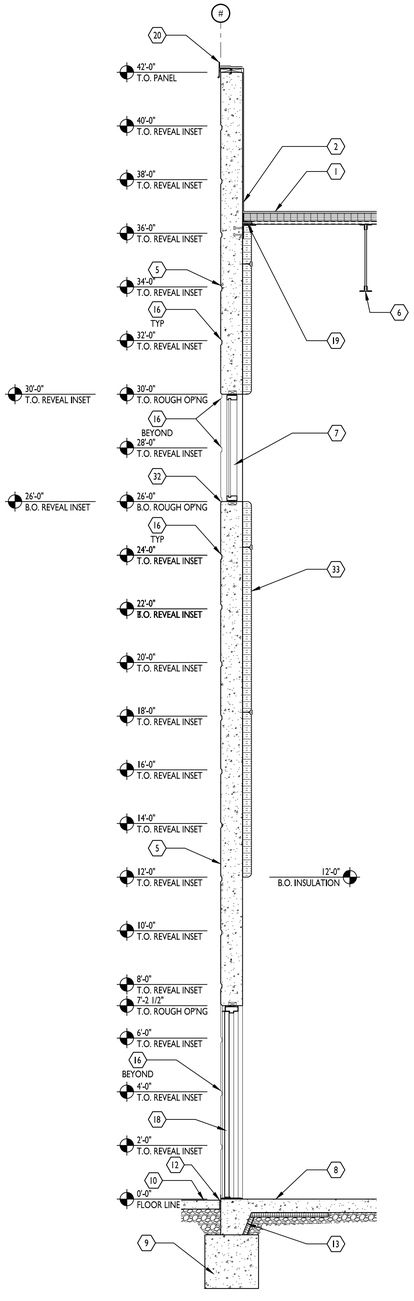

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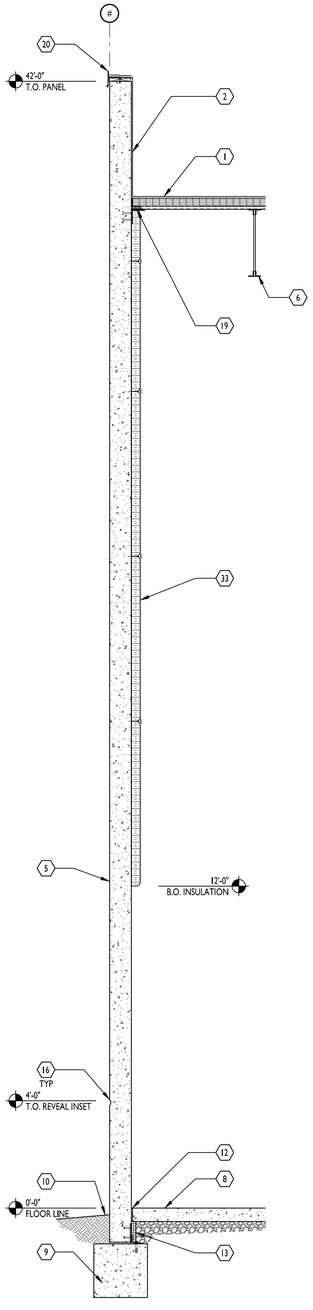

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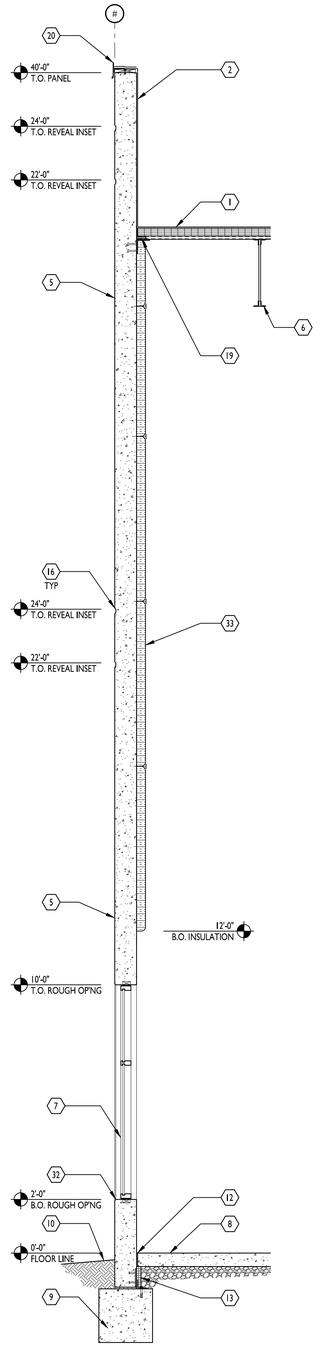

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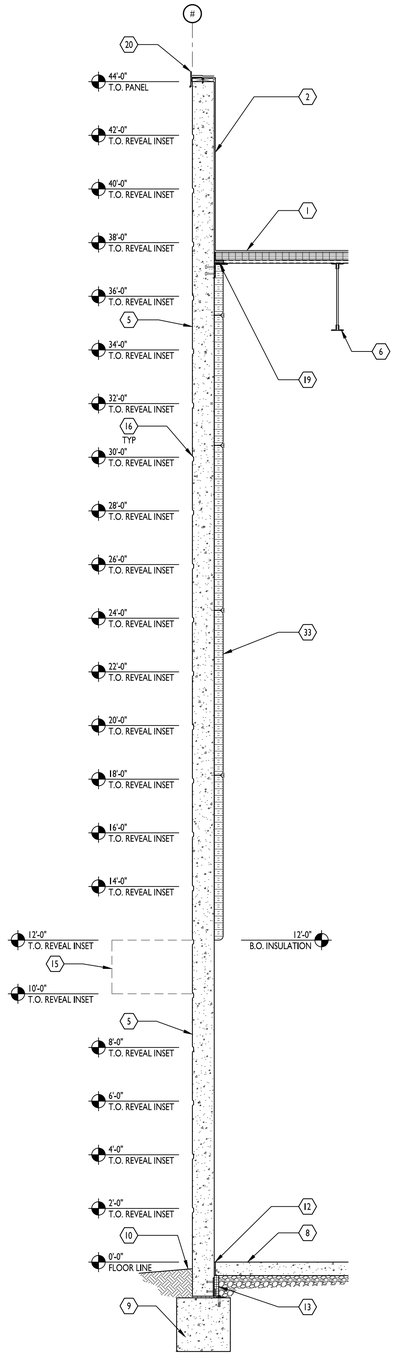

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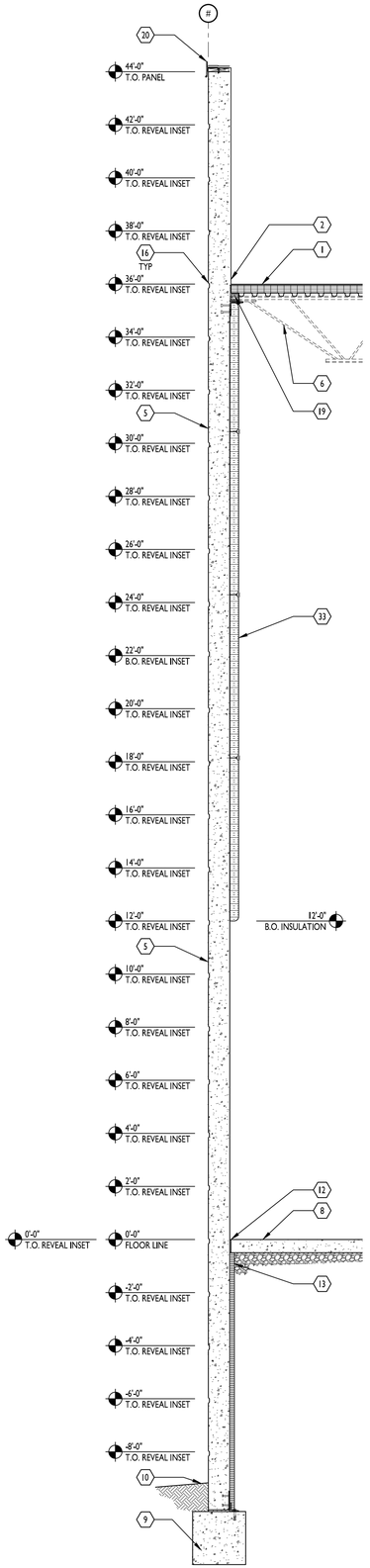

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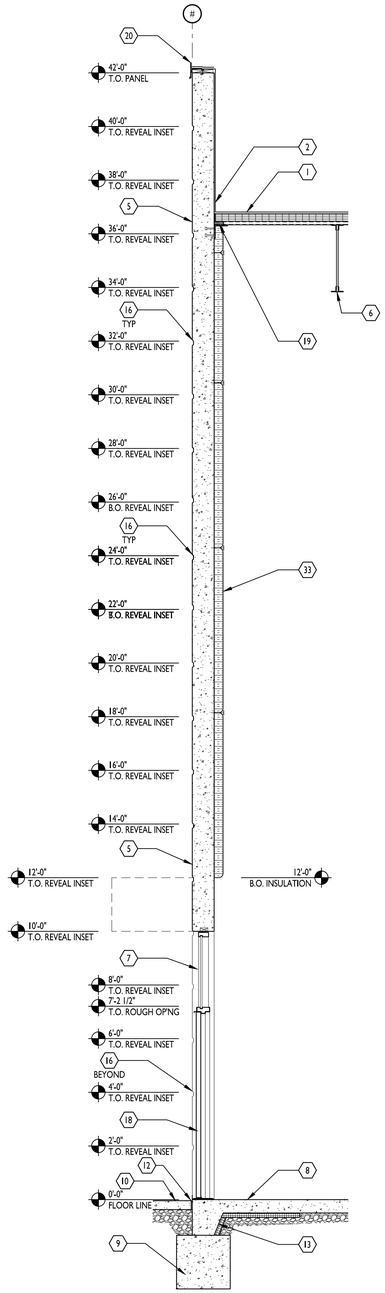

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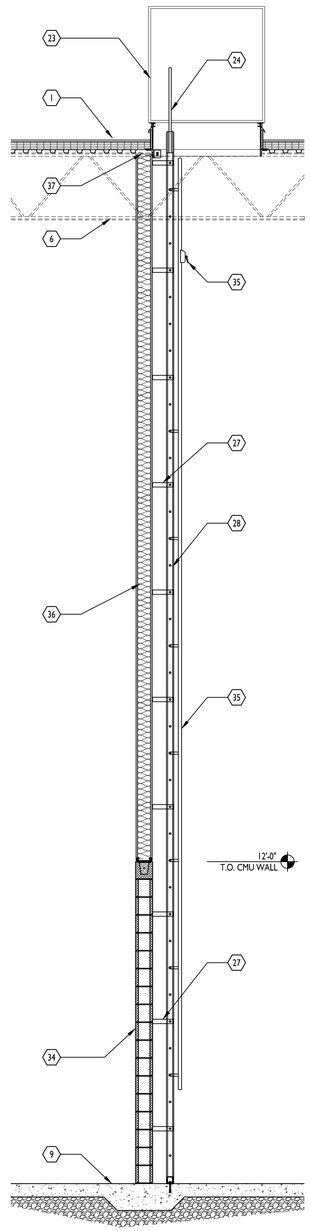

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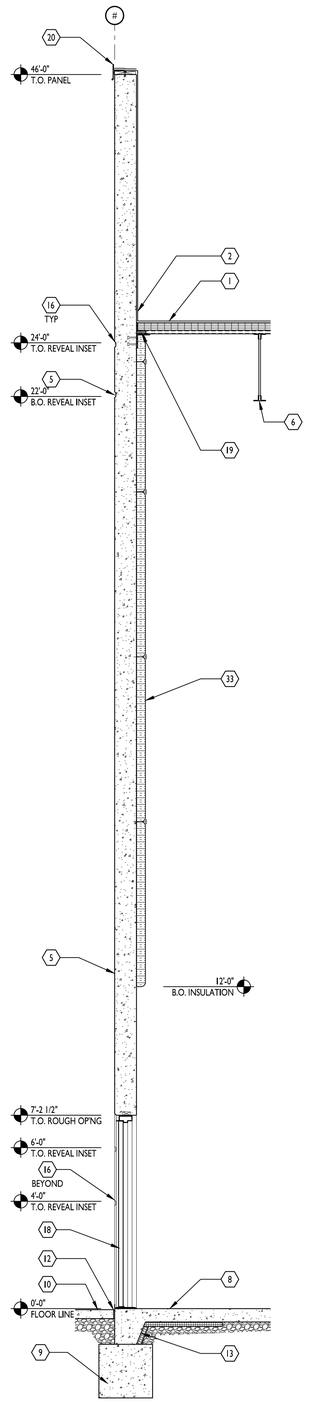

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Design No. U465

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Fire Resistance Ratings - ANSI/UL 263

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Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

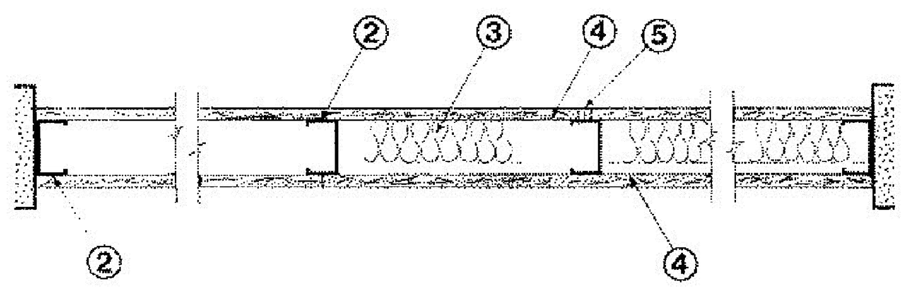
Fire-resistance Ratings - ANSI/UL 263

See General Information for Fire-resistance Ratings - ANSI/UL 263

Design No. U465

June 07, 2013

Nonbearing Wall Rating — 1 HR.



1. **Floor and Ceiling Runners —** (Not shown) — Channel shaped runners, 3-5/8 in. deep (min), 1-1/4 in. legs, formed from min No. 25 MSG galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

1A. **Framing Members*— Floor and Ceiling Runners —** (Not shown) — As an alternate to Item 1 - Channel shaped, min 3-5/8 in. deep, attached to floor and ceiling with fasteners 24 in. OC. max.

ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME Framing System

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME Framing System

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME Framing System

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME Framing System

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME Framing System

UNITED METAL PRODUCTS INC — Type SUPREME Framing System

1B. **Framing Members* - Floor and Ceiling Runners —** Not shown - In lieu of Item 1 — For use with Item 2B, proprietary channel shaped runners, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper20™ Track

CRACO MFG INC — SmarterTrack20™, SmartTrack20™

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track

PHILLIPS MFG CO L L C — Viper20™ Track

1C. **Floor and Ceiling Runners —** (Not shown)—For use with Item 2C- Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, min depth to accommodate stud size, with min 1 in. long legs, attached to floor and ceiling with fasteners spaced max 24 in. OC.

1D. **Framing Members*— Floor and Ceiling Runners —** Not shown - In lieu of Items 1 through 1C — For use with Item 2D and 4G only, proprietary channel shaped runners, 1-1/4 in. deep by min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

CLARKDIETRICH BUILDING SYSTEMS — CD ProTRAK

DMFCWBS L L C — ProTRAK

MBA BUILDING SUPPLIES — ProTRAK

RAM SALES L L C — Ram ProTRAK

SOUTHEASTERN STUD & COMPONENTS INC — ProTRAK

STEEL STRUCTURAL SYSTEMS L L C — Tri-S ProTRAK

1E. **Framing Members*— Floor and Ceiling Runners —** Not shown - In lieu of Items 1 through 1D — For use with Item 2E and 4I only, proprietary channel shaped runners, 1-1/4 in. deep by min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

TELLING INDUSTRIES L L C — TRUE-TRACK™

1F. **Framing Members*— Floor and Ceiling Runners —** Not shown - In lieu of Items 1 through 1E — For use with Item 2, channel shaped runners, 1-1/4 in. deep by min 3-5/8 in. wide fabricated from min 25 MSG steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

KIRII (HONG KONG) LTD — Type KIRII

1G. **Framing Members*— Floor and Ceiling Runners —** Not shown - In lieu of Items 1 through 1F — For use with Item 2, channel shaped runners, 1-1/4 in. deep by min 3-5/8 in. wide, attached to floor and ceiling with fasteners spaced 24 in. OC max.

STUDCO BUILDING SYSTEMS — CROCSTUD Track

1H. **Floor and Ceiling Runners —** (Not shown) — Channel shaped, fabricated from min 0.02 in. galv steel, min width to accommodate stud size, with min 1 in. long legs, for use with studs specified below and fabricated from min 0.02 in. galv steel or thicker, attached to floor and ceiling with fasteners spaced max 24 in. OC.

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track VT100.

1I. **Framing Members* - Floor and Ceiling Runners —** Not shown - In lieu of Item 1 — For use with Item 2H, proprietary channel shaped runners, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

TELLING INDUSTRIES L L C — Viper20™ Track

2. **Steel Studs —** Channel shaped, 3-5/8 in. deep (min), formed from min No. 25 MSG galv steel spaced 24 in. OC max. Studs to be cut 3/4 in. less than assembly height.

2A. **Framing Members*— Steel Studs —** As an alternate to Item 2 - Channel shaped studs, min 3-5/8 in. deep, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME Framing System

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME Framing System

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME Framing System

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME Framing System

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME Framing System

UNITED METAL PRODUCTS INC — Type SUPREME Framing System

2B. **Framing Members* - Steel Studs —** Not shown - In lieu of Item 2 — For use with Item 1B, proprietary channel shaped steel studs, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel. Studs cut 3/4 in. less in length than assembly height.

CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper20™

CRACO MFG INC — SmarterStud20™, SmartStud20™

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™

PHILLIPS MFG CO L L C — Viper20™

2C. **Steel Studs —** (As an alternate to Item 2, For use with Item 4E) Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, 3-1/2 in. min depth, spaced a max of 16 in. OC. Studs friction-fit into

floor and ceiling runners. Studs to be cut 5/8 to 3/4 in. less than assembly height.

2D. **Framing Members*— Steel Studs —** As an alternate to Items 2 through 2C- For use with Item 1D and 4G only, channel shaped studs, min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, spaced a max of 24 in. OC. Studs to be cut 1/2 in. less than assembly height.

CLARKDIETRICH BUILDING SYSTEMS — CD ProSTUD

DMFCWBS L L C — ProSTUD

MBA BUILDING SUPPLIES — ProSTUD

RAM SALES L L C — Ram ProSTUD

SOUTHEASTERN STUD & COMPONENTS INC — ProSTUD

STEEL STRUCTURAL SYSTEMS L L C — Tri-S ProSTUD

2E. **Framing Members*— Steel Studs —** As an alternate to Items 2 through 2D- For use with Item 1E and 4I only, channel shaped studs, min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, spaced a max of 24 in. OC. Studs to be cut 1/2 in. less than assembly height.

TELLING INDUSTRIES L L C — TRUE-STUD™

2F. **Framing Members*— Steel Studs —** As an alternate to Items 2 through 2E- For use with Item 1F, channel shaped studs, min 3-5/8 in. wide fabricated from min 25 MSG steel, spaced a max of 24 in. OC. Studs to be cut 1/2 in. less than assembly height.

KIRII (HONG KONG) LTD — Type KIRII

2G. **Framing Members* - Steel Studs —** Not shown - In lieu of Item 2 through 2F - For use with Item 1G. Proprietary channel shaped studs, minimum 3-5/8 in. wide, Studs to be cut 1/2 in. less than the assembly height.

STUDCO BUILDING SYSTEMS — CROCSTUD

2H. **Framing Members* - Steel Studs —** Not shown - In lieu of Item 2 — For use with Item 1I, proprietary channel shaped steel studs, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel. Studs cut 3/4 in. less in length than assembly height.

TELLING INDUSTRIES L L C — Viper20™

3. **Batts and Blankets* —** (Optional) — Mineral wool or glass fiber batts partially or completely filling stud cavity.

See **Batts and Blankets** (BZJZ) category for names of Classified companies.

3A. **Fiber, Sprayed* —** As an alternate to Batts and Blankets (Item 3) — (100% Borate Formulation) — Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product with a nominal dry density of 2.7 lb/ft^3. Alternate Application Method: The fiber is applied without water or adhesive at a nominal dry density of 3.5 lb/ft^3, in accordance with the application instructions supplied with the product.

U S GREENFIBER L L C — INS735 & INS745 for use with wet or dry application. INS765LD and INS770LD are to be used for dry application only.

3B. **Fiber, Sprayed* —** As an alternate to Batts and Blankets (Item 3) and Item 3A - Spray applied cellulose

insulation material. The fiber is applied with water to interior surfaces in accordance with the application instructions supplied with the product. Applied to completely fill the enclosed cavity. Minimum dry density of 4.3 pounds per cubic ft.

NU-WOOL CO INC — Cellulose Insulation

3C. **Fiber, Sprayed* —** As an alternate to Batts and Blankets (Item 3) - Spray applied cellulose fiber. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. The minimum dry density shall be 4.30 lbs/ft^3.

INTERNATIONAL CELLULOSE CORP — Celbar-RL

3D. **Batts and Blankets* —** For use with Item 8. Nom 3 in. thick, minimum 3.4 pcf mineral wool batts, friction fit between the studs and floor and ceiling runners.

See **Batts and Blankets** (BZJZ) category for names of manufacturers.

4. **Gypsum Board* —** 5/8 in. thick, 4 ft wide, attached to steel studs and floor and ceiling track with 1 in. long, Type S steel screws spaced 8 in. OC. along edges of board and 12 in. OC in the field of the board. Joints oriented vertically and staggered on opposite sides of the assembly. When attached to item 6 (resilient channels) or 6A or 6C (furring channels), gypsum board is screw attached to furring channels with 1 in. long, Type S steel screws spaced 12 in. OC.

ACADIA DRYWALL SUPPLIES LTD — Type X

AMERICAN GYPSUM CO — Types AG-C, AGX-1, M-Glass

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO — Type DBX-1.

CGC INC — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.

CERTAINTEED GYPSUM INC — Types 1, EGRG, GlasRoc, Type X, Type C, SilentFX, 5/8" Easi-Lite Type X.

CERTAINTEED GYPSUM CANADA INC — Type C, Type X, Type Abuse-Resistant, 5/8" Easi-Lite Type X.

GEORGIA-PACIFIC GYPSUM L L C — Types 5, 6, 9, C, DAP, DD, DA, DAPC, DGG, DS, GPFS6, LS.

LAFARGE NORTH AMERICA INC — Types LGFC2, LGFC2A, LGFC6, LGFC6A, LGFC-C, LGFC-C/A, LGFC-WD, LGLLX.

NATIONAL GYPSUM CO — Types FSK, FSK-C, FSK-G, FSW-C, FSW-G, FSW, FSW-3, FSW-5, FSW-6, FSL.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types PG-C, PG-9, PG-11, PGS-WRS.

PANEL REY S A — Types GREX, PRX, RHX, MDX, ETX.

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD — Type EX-1

TEMPLE-INLAND — Type X, Veneer Plaster Base - Type X, Water Rated - Type X, Sheathing - Type X, Soffit - Type X, TG-C, GreenGlass Type X, Type X ComfortGuard Sound Deadening Gypsum Board.

THAI GYPSUM PRODUCTS PCL — Type X, Type C.

UNITED STATES GYPSUM CO — Type AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX, USGX (Joint tape and compound, Item 5, optional for use with Type USGX).

USG MEXICO S A DE C V — Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.

4A. **Gypsum Board* —** (As alternate to Item 4) - Nom 5/8 in. thick gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed by steel framing. Panels attached to steel studs and floor runner with 1 in. long Type S steel screws spaced 8 in. OC when applied horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. When used in widths other than 48 in., gypsum panels to be installed horizontally.

CGC INC — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.

CERTAINTEED GYPSUM INC — Type X, Type C, Type EGRG/ GlasRoc.

CERTAINTEED GYPSUM CANADA INC — Type X, Type C, Type EGRG/ GlasRoc.

GEORGIA-PACIFIC GYPSUM L L C — Types DAP, DAPC, DGG, DS.

LAFARGE NORTH AMERICA INC — Type LGFC6A, LGFC-C/A

THAI GYPSUM PRODUCTS PCL — Type X, Type C.

UNITED STATES GYPSUM CO — T ype AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX, , USGX (Joint tape and compound, Item 5, optional for use with Type USGX).

USG MEXICO S A DE C V — Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.

4B. **Gypsum Board* —** (As an alternate to Items 4 or 4A) — Nom 3/4 in. thick, 4 ft wide, installed as described in Item 4A with screw length increased to 1-1/4 in.

CGC INC — Types AR, IP-AR.

UNITED STATES GYPSUM CO — Types AR, IP-AR.

USG MEXICO S A DE C V — Types AR, IP-AR.

4C. **Gypsum Board* —** As an alternate to Items 4, 4A, and 4B - Nom. 5/8 in. thick gypsum panels, with square edges, applied horizontally. Gypsum panels fastened to framing with 1 in. long bugle head steel screws spaced a max 8 in. OC, with last 2 screws 3/4 in. and 4 in. from each edge of board. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs on interior walls need not be staggered or backed by steel framing.

TEMPLE-INLAND — GreenGlass Type X.

4D. **Gypsum Board* —** As an alternate to Items 4, 4A, 4B, and 4C - Nom. 5/8 in. thick gypsum panels applied horizontally. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Gypsum panels fastened to framing with 1 in. long Type S steel screws 1-1/2 in. from board edges, 3 in. from board edge and every 8 in. OC in the field. Screws spaced a max 12 in. along the top and bottom edges of the wall.

NATIONAL GYPSUM CO — Types FSK, FSK-C, FSK-G, FSW-C, FSW-G, FSW.

4E. **Gypsum Board* —** (As an alternate to Items 4 through 4D) - Installed as described in Item 4. 5/8 in. thick, 4 ft. wide, paper surfaced, applied vertically only and fastened to the studs and plates with 1 in. long, Type S steel screws spaced, 8 in. OC. Not to be used with item 6.

NATIONAL GYPSUM CO — SoundBreak XP Type X Gypsum Board

4F. **Gypsum Board* —** (Not Shown) - (As an alternate to Item 4 when used as the base layer on one or both sides of wall. For direct attachment only to steel studs Item 2C) - Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Gypsum board secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field.

RAY-BAR ENGINEERING CORP — Type RB-LBG

4G. **Gypsum Board* —** (As an alternate to Items 4 through 4F) — For use with Items 1D and 2D only, 5/8 in. thick, 4 ft wide, attached to steel studs and floor and ceiling track with 1 in. long, Type S steel screws spaced 8 in. OC. along edges of board and 12 in. OC in the field of the board. Joints oriented vertically and staggered on opposite sides of the assembly.

LAFARGE NORTH AMERICA INC — Type LGFC6A, LGFC-C/A

NATIONAL GYPSUM CO — Types FSW

UNITED STATES GYPSUM CO — Type SCX

4H. **Wall and Partition Facings and Accessories* —** (As an alternate to Items 4 through 4G) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically and secured as described in Item 4.

SERIOUS ENERGY INC — Types QuietRock ES, QuietRock 527.

4I. **Gypsum Board*** — (As an alternate to Items 4 through 4F) — For use with Items 1E and 2E only, 5/8 in. thick, 4 ft wide, attached to steel studs and floor and ceiling track with 1 in. long, Type S steel screws spaced 8 in. OC. along edges of board and 12 in. OC in the field of the board. Joints oriented vertically and staggered on opposite sides of the assembly.

UNITED STATES GYPSUM CO — Type SCX

4J. **Gypsum Board* —** (Not Shown) - (As an alternate to Item 4 when used as the base layer on one or both sides of wall. For direct attachment only to steel studs Item 2C) - Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Gypsum board secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. To be used with Lead Batten Strips (see Item 9A) or Lead Discs (see Item 10A).

MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum

4K. **Gypsum Board* —** (As an alternate to Item 4 and 4A, not for use with Items 1D, 1E, 2D and 2E) - Nom. 5/8 in. thick gypsum panels with beveled, square or tapered edges installed as described in Item 4 and 4A.

CGC INC — Type ULX

UNITED STATES GYPSUM CO — Type ULX

USG MEXICO S A DE C V — Type ULX

4L. **Gypsum Board* —** (Not Shown) - (As an alternate to Item 4 when used as the base layer on one or both sides of wall. For direct attachment only to steel studs Item 2C). Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws gypsum panel steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".

RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall

4M. **Gypsum Board* —** (For use with Item 8) - 5/8 in. thick, 4 ft wide, applied vertically over Mineral and Fiber Board (Item 8) with vertical joints located anywhere over stud cavities. Secured to mineral and fiber boards with 1-1/2 in. Type G Screws spaced 8 in. OC along edges of each vertical joint and 12 in. OC in intermediate field of the Mineral and Fiber Board (Item 8). Secured to outermost studs and floor and ceiling runners with 2 in. long Type S screws spaced 8 in. OC. Gypsum Board joints covered with paper tape and joint compound. Screw heads covered with joint compound.

AMERICAN GYPSUM CO — Type AG-C

CERTAINTEED GYPSUM INC — Type FRPC, Type C

CERTAINTEED GYPSUM CANADA INC — Type C

CGC INC — Types C, IP-X2, IPC-AR

GEORGIA-PACIFIC GYPSUM L L C — Types 5, DAPC

LAFARGE NORTH AMERICA INC — Types LGFC-C, LGFC-C/A

NATIONAL GYPSUM CO — Types FSK-C, FSW-C

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type PG-C.

PANEL REY S A — Type PRC

TEMPLE-INLAND — Type TG-C

THAI GYPSUM PRODUCTS PCL — Type C

UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR

USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR

5. **Joint Tape and Compound —** Vinyl, dry or premixed joint compound, applied in two coats to joints and screw heads; paper tape, 2 in. wide, embedded in first layer of compound over all joints. As an alternate, nominal 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard. Joints reinforced. Paper tape and joint compound may be omitted when gypsum boards are supplied with square edges.

6. **Resilient Channel —** (Optional-Not Shown) — 25 MSG galv steel resilient channels spaced vertically max 24 in. OC, flange portion attached to each intersecting stud with 1/2 in. long type S-12 pan head steel screws. May not be used with Item 4F or 4J.

6A. **Steel Framing Members (Not Shown)* —** As an alternate to Item 6, furring channels and resilient sound isolation clip as described below:

a. **Furring Channels —** Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping No. 6 framing screws, min 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel.

b. **Framing Members* —** Used to attach furring channels (Item a) to studs (Item 2). Clips spaced 48 in. OC., and secured to studs with 1-5/8 in. wafer or hex head Type S steel screw through the center grommet. Furring channels are friction fitted into clips. RSIC-1 clip for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) clip for use with 2-23/32 in. wide furring channels.

PAC INTERNATIONAL INC — Types RSIC-1, RSIC-1 (2.75).

6B. **Framing Members* —** Optional - Not Shown - Used as an alternate method to attach resilient channels (Item 6). Clips attached at each intersection of the resilient channel and the steel studs (Item 2). Resilient channels are friction fitted into clips, and then clips are secured to the stud with min. 1 in. long Type S-12 pan head steel screws through the center hole of the clip and the resilient channel flange.

KEENE BUILDING PRODUCTS CO INC — Type RC Assurance.

6C. **Framing Members*** — (Not Shown) — (Optional on one or both sides) — As an alternate to Item 6, furring channel and Steel Framing Members as described below:

a. **Furring Channels —** Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 4.

b. **Steel Framing Members* —** Used to attach furring channels (Item 6Ca) to studs (Item 2). Clips spaced max. 48 in. OC. GENIECLIPS secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips.

PLITEQ INC — Type Genie Clip

6D. **Steel Framing Members** — (Optional, Not Shown)* - Furring channels and resilient sound isolation clip as described below:

a. **Furring Channels —** Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured together with four self-tapping No. 8x1/2 Self Drilling screws (2 per side 1 in. and 4 in. from overlap edge). Gypsum board attached to furring channels as described in Item 4. Side joint furring channels shall be attached to studs with RESILMOUNT Sound Isolation Clips - Type A237R located approximately 2 in. from each end of length of channel. Both Gypsum Boards at side joints fastened into channel with screws spaced 8 in. OC, approximately 1/2 in. from joint edge.

b. **Steel Framing Members* —** Resilient sound isolation clip used to attach furring channels (Item 6Da) to studs. Clips spaced 24 in. OC., and secured to studs with No. 10 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction

fitted into clips.

STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237R

7. **Wall and Partition Facings and Accessories* —** (Optional, Not shown) — Nominal 1/2 in. thick, 4 ft wide panels, for optional use as an additional layer on one or both sides of the assembly. Panels attached in accordance with manufacturer's recommendations. When the QR-510 panel is installed between the steel framing and the UL Classified gypsum board, the required UL Classified gypsum board layer(s) is/are to be installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.

SERIOUS ENERGY INC — Type QuietRock QR-510.

8. **Mineral and Fiber Board* —** (Optional, Not shown) — For optional use as an additional layer on one side of wall. Nom 1/2 in. thick, 4 ft wide with long dimension parallel and centered over studs. Attached to studs and floor and ceiling runners with 1-5/8 in. long Type S steel screws, spaced 12 in. OC and 24 in. OC along all intermediate framing. The required UL Classified gypsum board layer (Item 4M) is to be installed over the Mineral and Fiber Boards. Batts and Blankets, Item 3D, and Adhesive, Item 11, are required.

9. **Lead Batten Strips —** (Not Shown, For Use With Item 4E) - Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. Strips placed on the interior face of studs and attached from the exterior face of the stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum board (Item 4E) and optional at remaining stud locations. Required behind vertical joints.

9A. **Lead Batten Strips —** (Not Shown, for use with Item 4J) Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.140 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grades "A, B, C or D". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 4J) and optional at remaining stud locations.

10. **Lead Discs or Tabs —** (Not Shown, For Use With Item 4E) - Used in lieu of or in addition to the lead batten strips (Item 8) or optional at other locations - Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards (Item 4E) underneath screw locations prior to the installation of the screws. Lead discs or tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".

10A. **Lead Discs —** (Not Shown, for use with Item 4J) Max 5/16 in. diam by max 0.140 in. thick lead discs compression fitted or adhered over steel screw heads. Lead discs to have a purity of 99.9% meeting the Federal Specification QQ-L-201f, Grades "A, B, C or D".

11. **Adhesive —** Not Shown - (For use with Item 8) - Construction grade adhesive applied in vertical, serpentine, nominal 3/8 in. wide beads down the length of both vertical edges of Mineral and Fiber Board (Item 8).

*Bearing the UL Classification Mark

Last Updated on 2013-06-07

Questions? Print this page Terms of Use Page Top

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

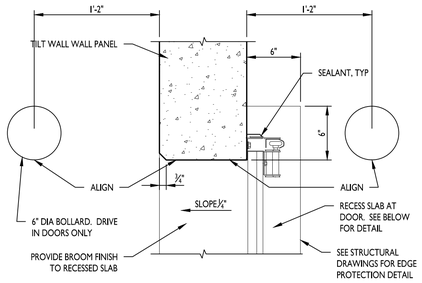
ISSUE DATES

	PERMIT SET	02.18.22
1	PERMIT COMMENTS	10.24.22

210300

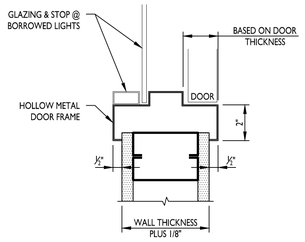
RATED WALL INFORMATION

A305



DRIVE IN DOOR JAMB DETAIL 13

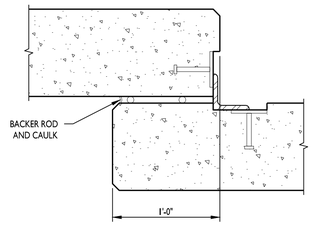
1 1/2" = 1'-0"



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

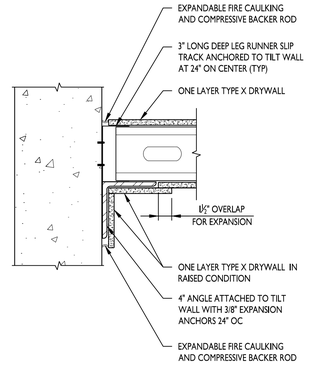
DOOR JAMB SECTION 10

3" = 1'-0"



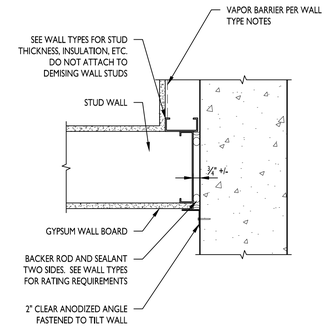
TILT WALL OVERLAP WALL DETAIL 7

1 1/2" = 1'-0"



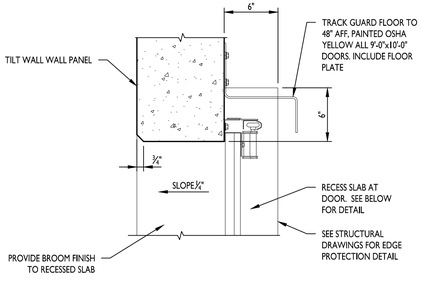
TILT WALL TO WALL SECTION DETAIL DRYWALL "LID" CONDITION 4

1 1/2" = 1'-0"



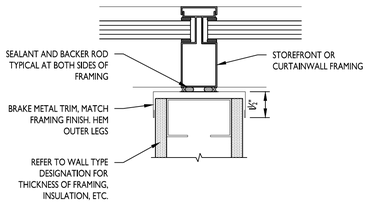
TILT WALL TO WALL PLAN DETAIL 1

1 1/2" = 1'-0"



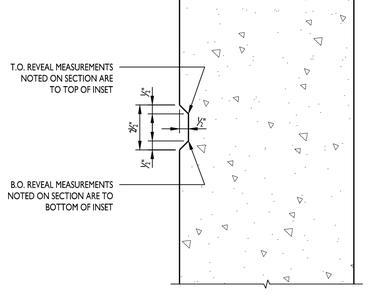
DRIVE IN DOOR JAMB DETAIL 14

1 1/2" = 1'-0"



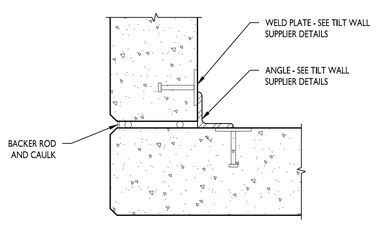
WALL AT MULLION DETAIL 11

3" = 1'-0"



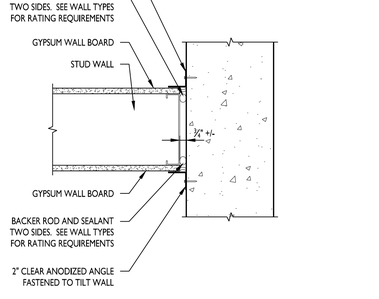
TYPICAL REVEAL DETAIL 8

3" = 1'-0"



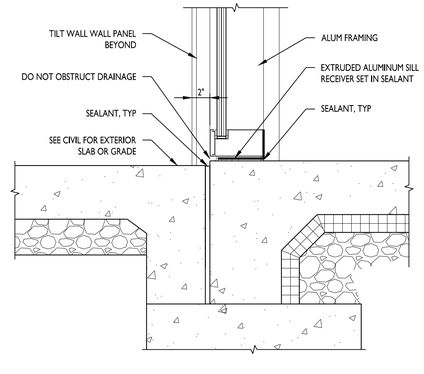
TILT WALL BOX CORNER DETAIL 5

1 1/2" = 1'-0"



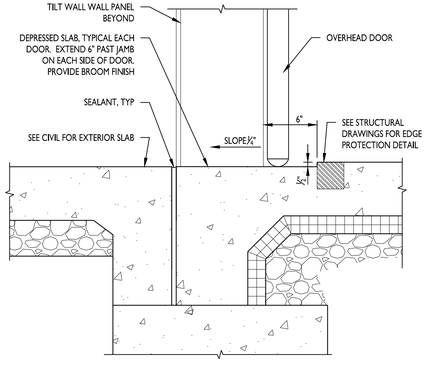
TILT WALL TO WALL PLAN DETAIL 2

1 1/2" = 1'-0"



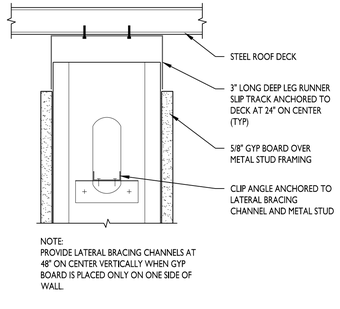
STOREFRONT/CURTAINWALL 15

1 1/2" = 1'-0"



DRIVE IN DOOR DETAIL 12

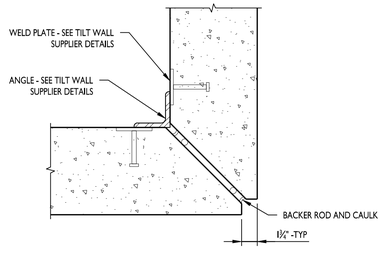
1 1/2" = 1'-0"



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

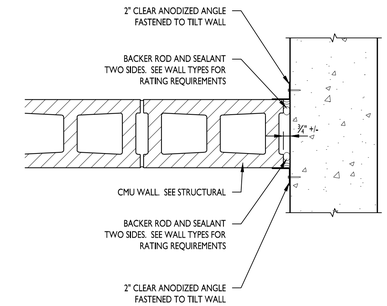
DEFLECTION TRACK DETAIL 9

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"

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
12/27/2022

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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

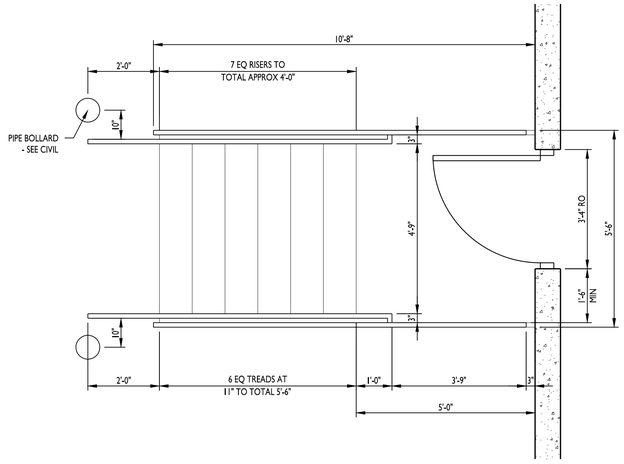
ISSUE DATES

PERMIT SET	02.18.22

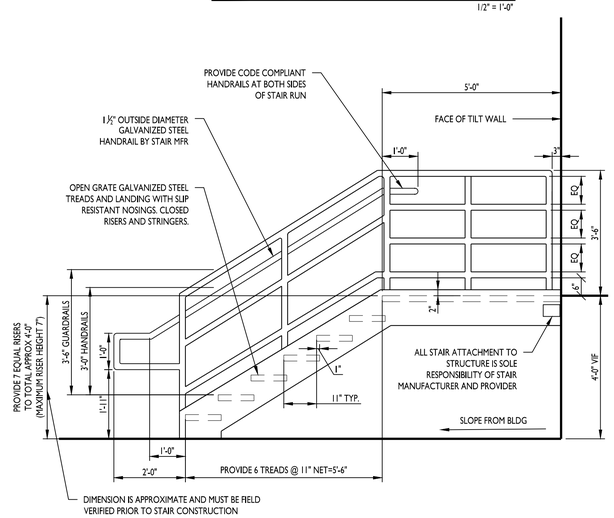
210300

TYPICAL TILT WALL BUILDING DETAILS

A501

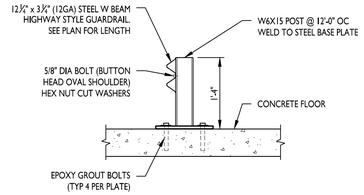


DOCK STAIR PLAN 11
1/2" = 1'-0"

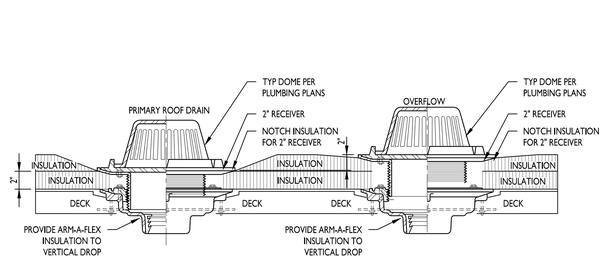


DOCK STAIR ELEVATION 12
1/2" = 1'-0"

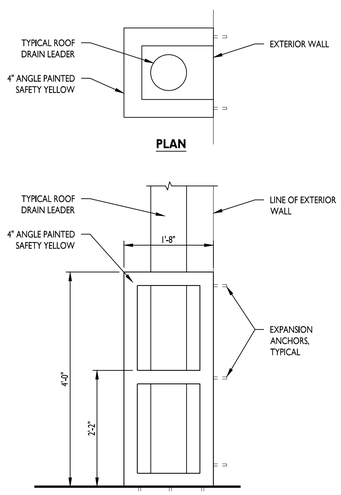
NOT USED 10
3/4" = 1'-0"



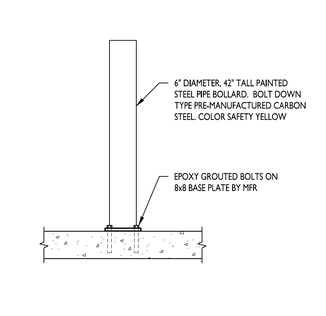
BOLT-DOWN GUARDRAIL DETAIL 7
3/4" = 1'-0"



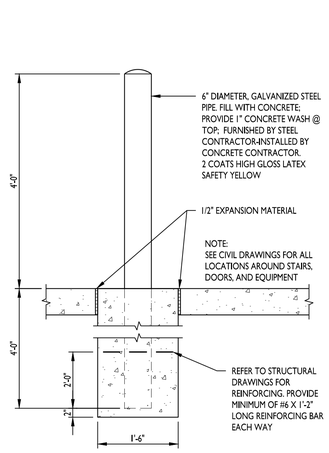
ROOF DRAIN DETAIL 8
1 1/2" = 1'-0"



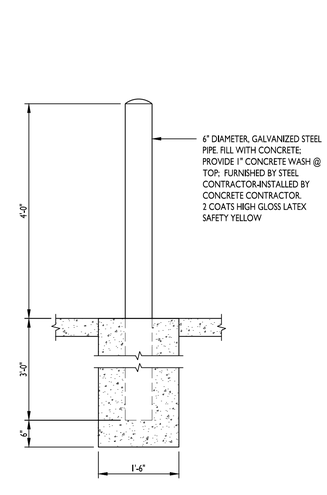
ROOF DRAIN PROTECTION DETAIL 9
3/4" = 1'-0"



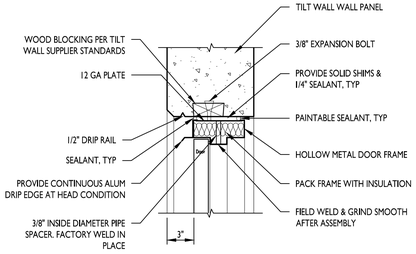
BOLT-DOWN BOLLARD DETAIL 4
3/4" = 1'-0"



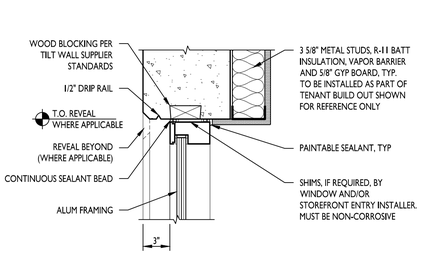
EXTERIOR BOLLARD DETAIL 5
3/4" = 1'-0"



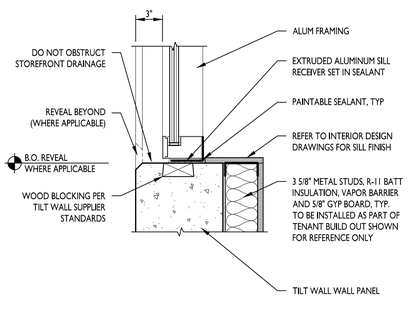
INTERIOR BOLLARD DETAIL 6
3/4" = 1'-0"



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



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



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

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INDIANAPOLIS, IN 46216
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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

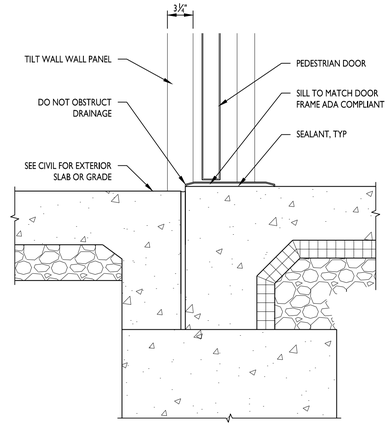
ISSUE DATES

PERMIT SET	02.18.22

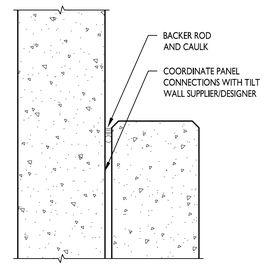
210300

TYPICAL TILT WALL
BUILDING DETAILS

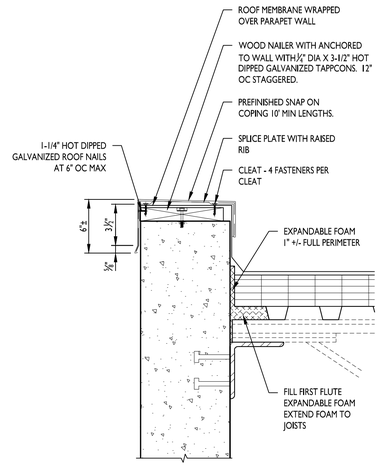
A502



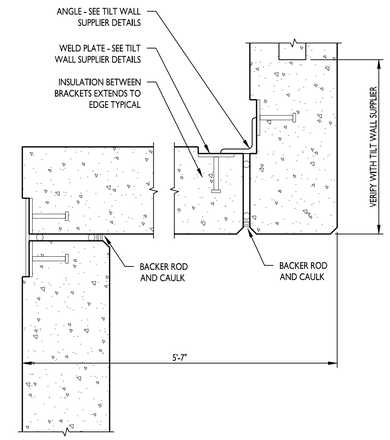
DOOR THRESHOLD 4
1 1/2" = 1'-0"



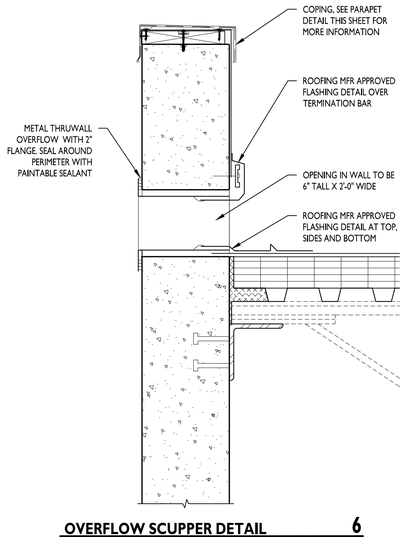
TILT WALL PLAN DETAIL 1
1 1/2" = 1'-0"



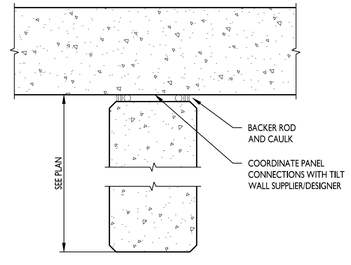
TYPICAL PARAPET DETAIL 5
1 1/2" = 1'-0"



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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SCANNELL
PROPERTIES

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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

TYPICAL TILT WALL
BUILDING DETAILS

A503

DOOR SCHEDULE CONTINUED

MARK	DOOR	SIZE	MATERIAL	GLAZING	FINISH	RATING	FRAME	MATERIAL	FINISH	RATING	HARDWARE	REMARKS
114	F	3-0 x 7-0	INSUL STL	-	PAINT	-	FI	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	
1 114G	OV2	9-0 x 10-0	INSUL STL	B	PREFINISHED	-	BY MFR	BY MFR	BY MFR	-	BY MFR	
115	F	3-0 x 7-0	INSUL STL	-	PAINT	-	FI	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	
1 115F	OV2	9-0 x 10-0	INSUL STL	B	PREFINISHED	-	BY MFR	BY MFR	BY MFR	-	BY MFR	NO LEVELER, SEALS OR BUMPER AT DOOR
116	F	3-0 x 7-0	INSUL STL	-	PAINT	-	FI	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	
1 116C	OV2	9-0 x 10-0	INSUL STL	B	PREFINISHED	-	BY MFR	BY MFR	BY MFR	-	BY MFR	
116D	OV2	9-0 x 10-0	INSUL STL	B	PREFINISHED	-	BY MFR	BY MFR	BY MFR	-	BY MFR	
116E	OV2	9-0 x 10-0	INSUL STL	B	PREFINISHED	-	BY MFR	BY MFR	BY MFR	-	BY MFR	
116F	OV2	9-0 x 10-0	INSUL STL	B	PREFINISHED	-	BY MFR	BY MFR	BY MFR	-	BY MFR	
116G	OV2	9-0 x 10-0	INSUL STL	B	PREFINISHED	-	BY MFR	BY MFR	BY MFR	-	BY MFR	
116H	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	-	FI	HM	PAINT	-	2	
118	F	3-0 x 7-0	INSUL STL	-	PAINT	-	FI	HM	PAINT	-	2	
119	F	3-0 x 7-0	INSUL STL	-	PAINT	-	FI	HM	PAINT	-	2	
120	F	3-0 x 7-0	INSUL STL	-	PAINT	-	FI	HM	PAINT	-	2	
1 121	F	3-0 x 7-0	INSUL STL	-	PAINT	-	FI	HM	PAINT	-	2	

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	-	SFI	ALUM	CLEAR ANOD	-	1	
102	F	3-0 x 7-0	INSUL STL	-	PAINT	-	FI	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	-	FI	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	NO LEVELER, SEALS OR BUMPER AT DOOR
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	
1 103G	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	-	FI	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	-	FI	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	-	FI	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	-	FI	HM	PAINT	-	2	
107B	F	3-6 x 7-0	INSUL STL	-	PAINT	-	FI	HM	PAINT	-	3	
108	FG	(2) 3-0 x 7-0	ALUM	B	CLEAR ANOD	-	SFI	ALUM	CLEAR ANOD	-	1	
109	F	3-0 x 7-0	INSUL STL	-	PAINT	-	FI	HM	PAINT	-	2	
110	F	3-0 x 7-0	INSUL STL	-	PAINT	-	FI	HM	PAINT	-	2	
111	F	3-0 x 7-0	INSUL STL	-	PAINT	-	FI	HM	PAINT	-	2	
112	F	3-0 x 7-0	INSUL STL	-	PAINT	-	FI	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	-	FI	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	

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.

1 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

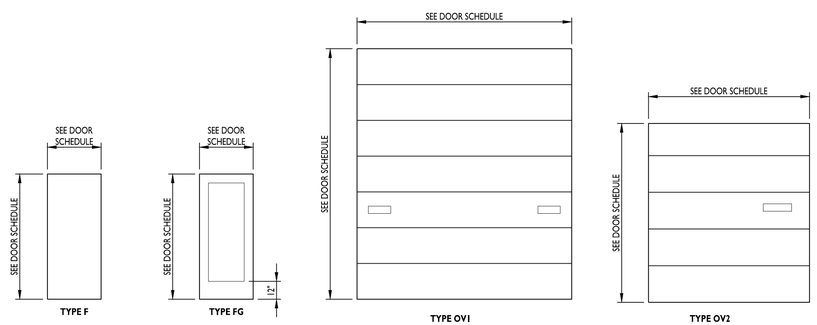
2 CONTINUOUS HINGES
2 PANIC DEVICES
1 PERIMETER SEAL
1 THRESHOLD
2 SWEEPS
2 HD CLOSERS
2 PULLS
FINISH: MATCH STOREFRONT

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

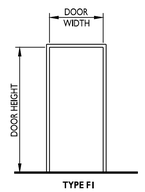
HARDWARE SET 3

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



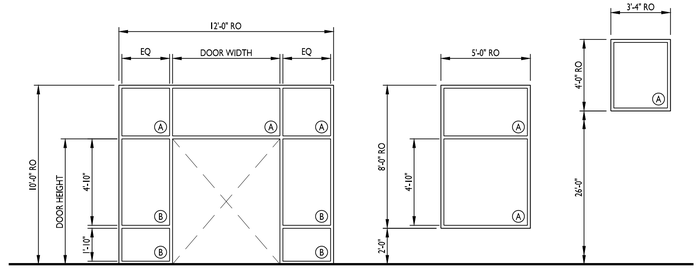
DOOR TYPES

NOT TO SCALE



DOOR FRAME TYPES

NOT TO SCALE



STOREFRONT ELEVATIONS

NOT TO SCALE

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
City's Summit, Missouri
12/27/2022

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

ISSUE DATES

	PERMIT SET	02.18.22
1	TENANT COORDINATION	06.06.22

210300

DOOR & STOREFRONT ELEVATIONS

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

12/13/2022
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

12/13/2022
Missouri COA #001268

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING A LOT 1

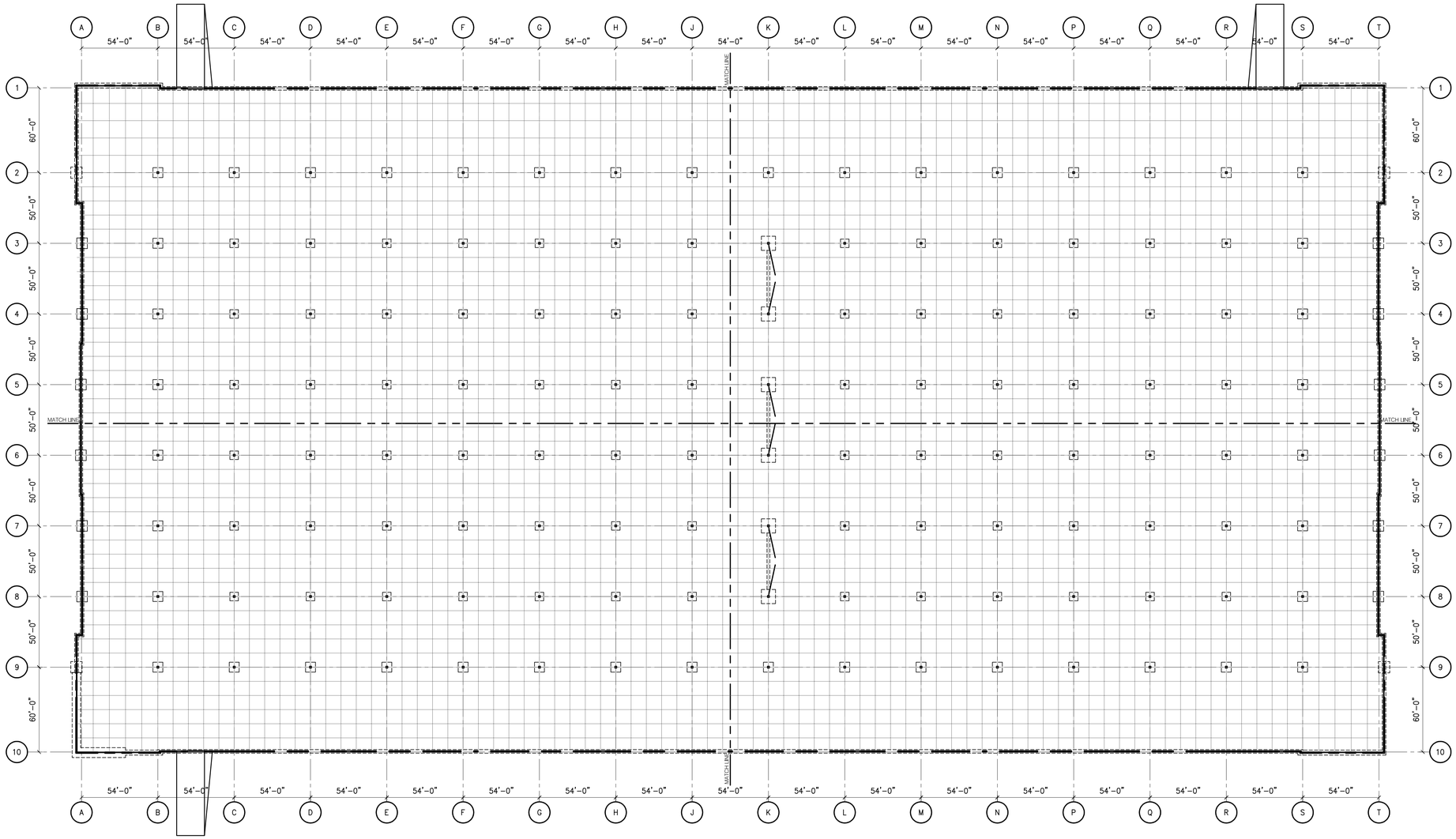
NW CORNER TUDOR RD & MAINST
LEE'S SUMMIT, MO

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

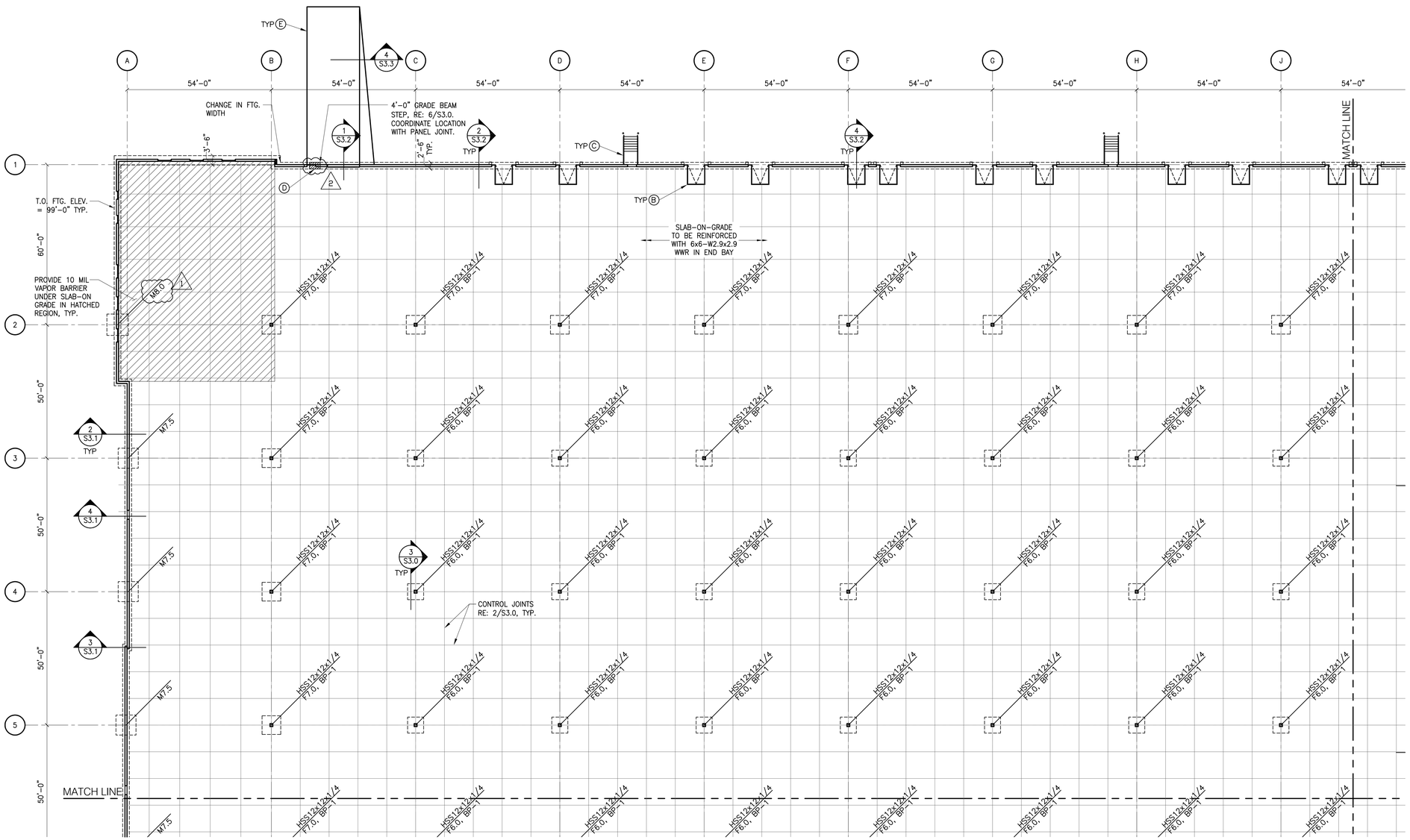
1. F# = FOOTING MARK; RE: FOOTING SCHEDULE
2. C.J. = SAW CUT CONTROL JOINT; RE: DETAIL 2/S3.0
3. B.P. = BASE PLATE; RE: DETAIL 9/S3.0

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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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:

- (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

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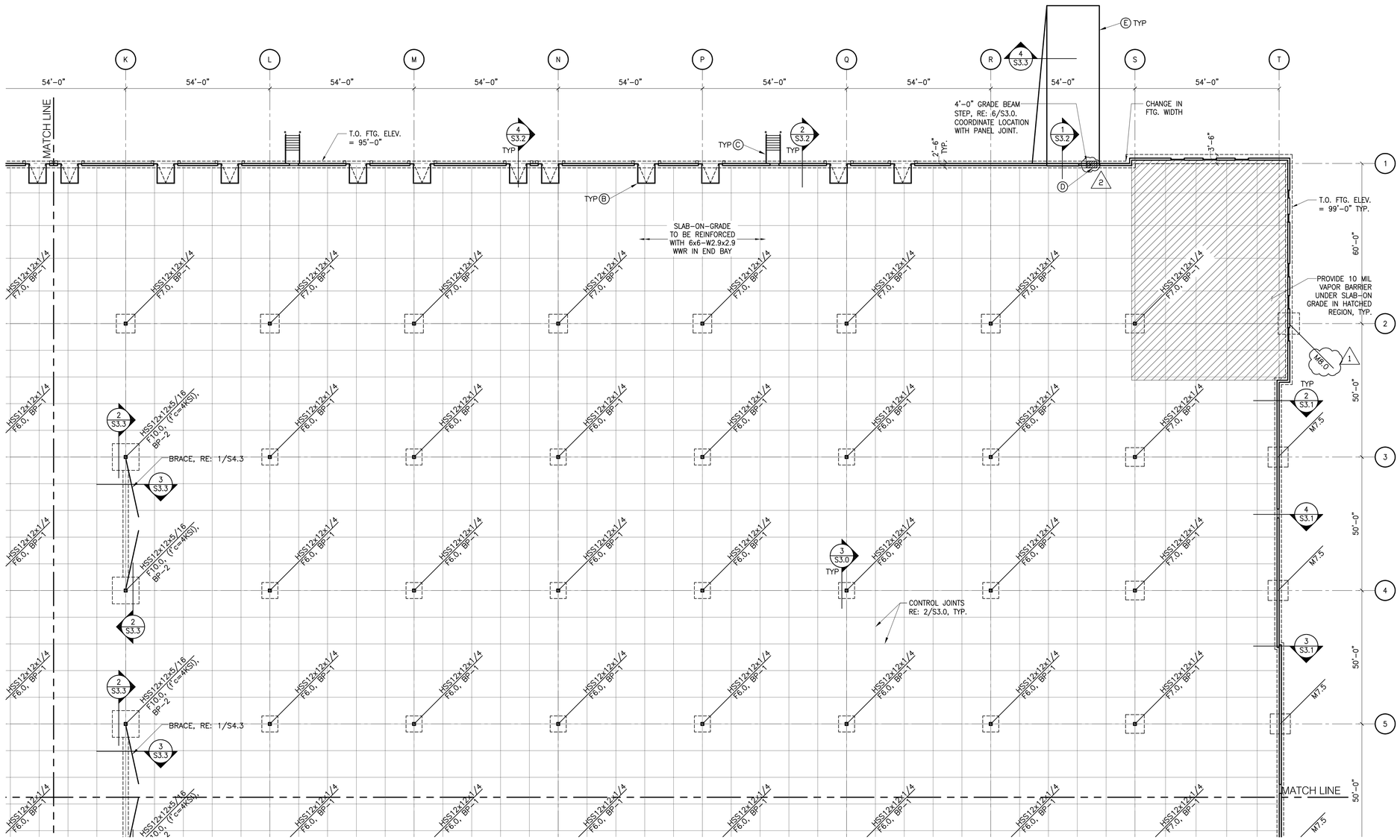
NOTE: PROVIDE f'c=4,000 PSI AT FOOTING TYPE F10.0



1 ENLARGED PARTIAL FOUNDATION PLAN

SCALE: 1"=20'-0"

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S1.2
ENLARGED PARTIAL FOUNDATION PLAN

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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

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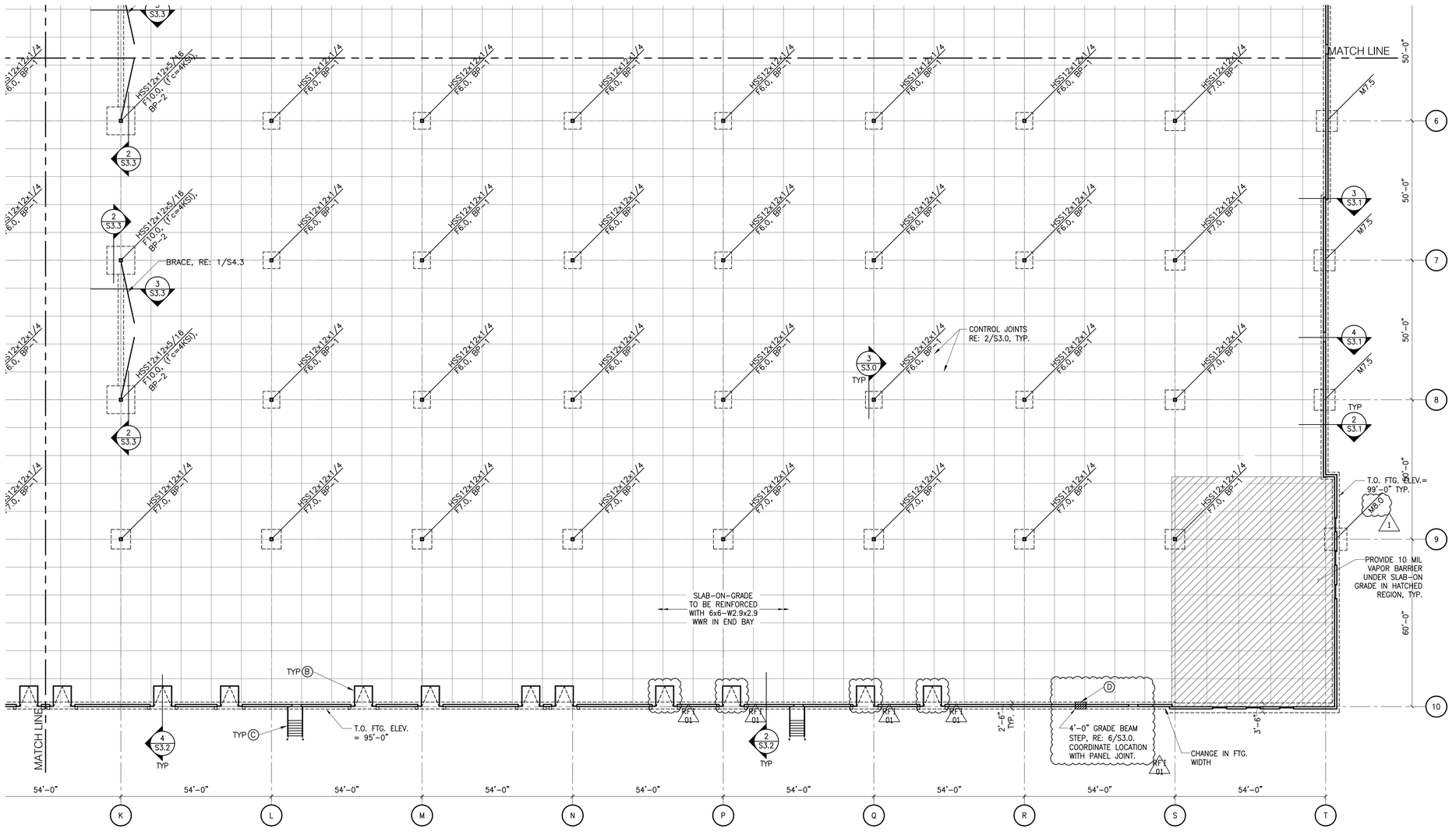
NOTE: PROVIDE f'c=4,000 PSI AT FOOTING TYPE F10.0



1 ENLARGED PARTIAL FOUNDATION PLAN

SCALE: 1"=20'-0"

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S1.3
ENLARGED PARTIAL FOUNDATION PLAN

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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
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LEGEND

1. F# = FOOTING MARK; RE: FOOTING SCHEDULE
2. C.J. = SAW CUT CONTROL JOINT; RE: DETAIL 2/S3.0
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SPOT FOOTING SCHEDULE

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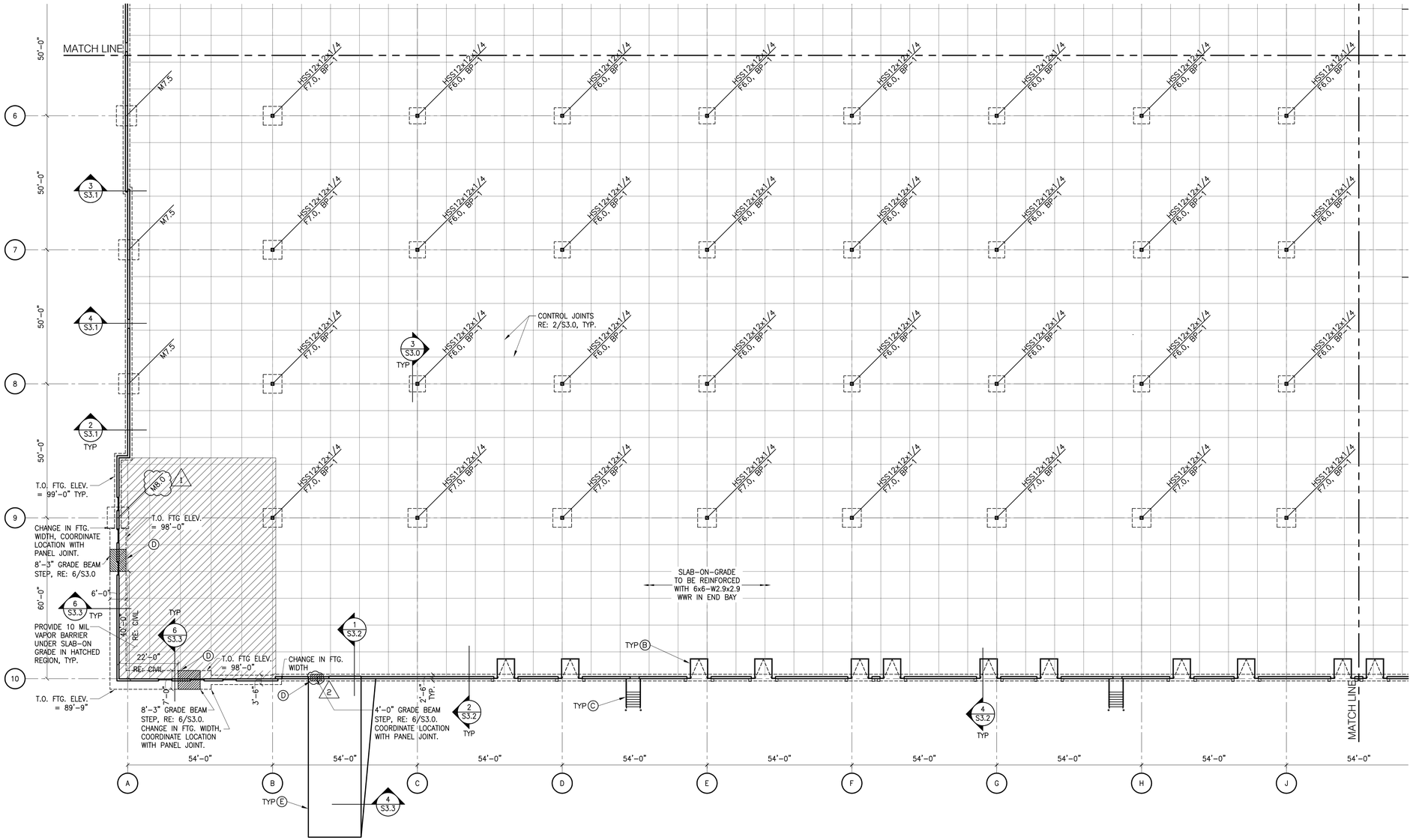

1 ENLARGED PARTIAL FOUNDATION PLAN

SCALE: 1"=20'-0"

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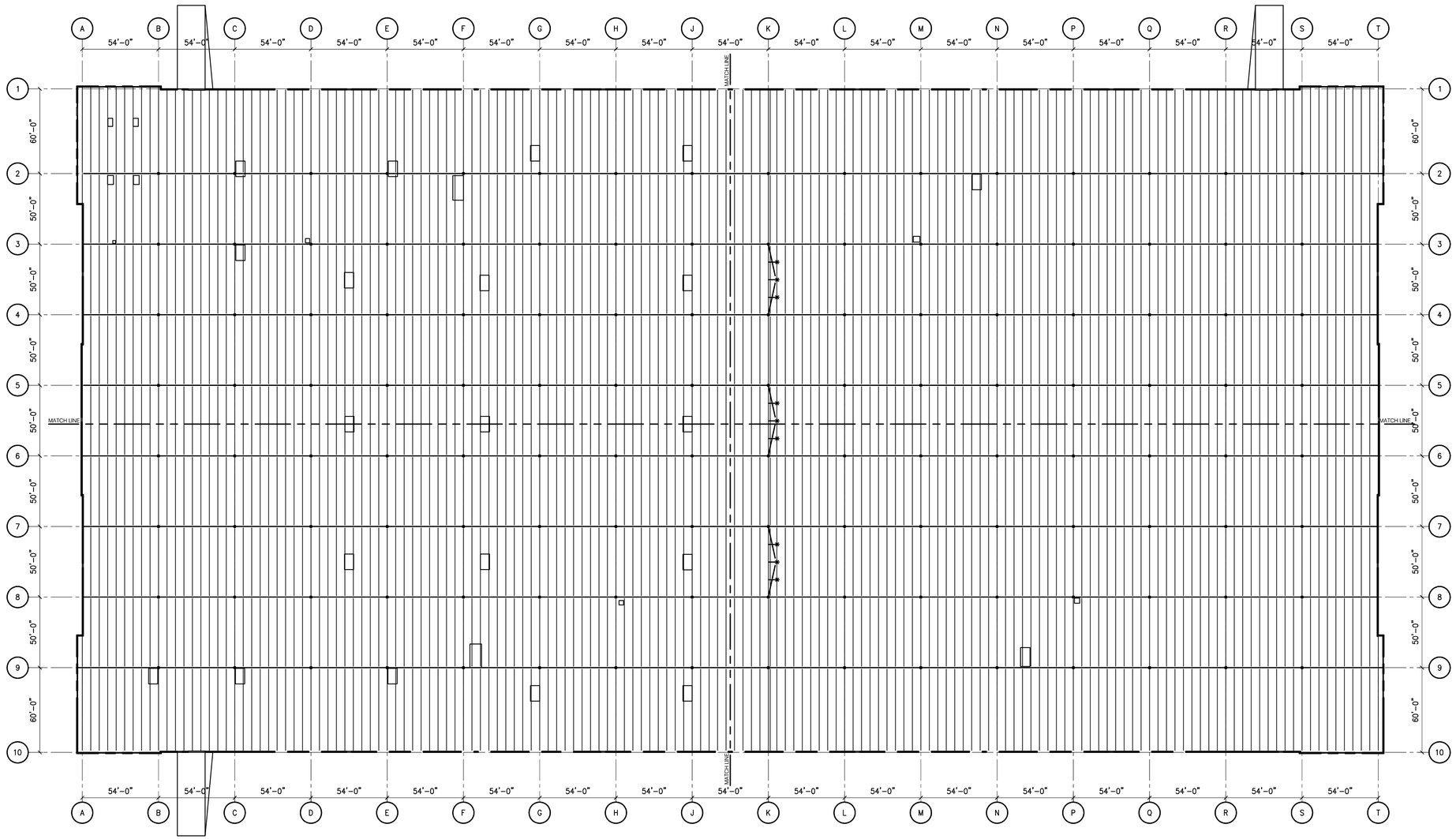
S1.4
ENLARGED PARTIAL FOUNDATION PLAN



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

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S2.0
OVERALL FRAMING PLAN

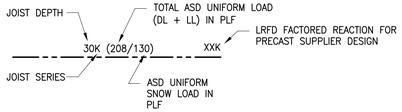
PLAN REFERENCE NOTES:

- Ⓐ 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.

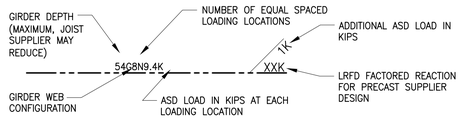
PLAN NOTES

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

JOIST LEGEND



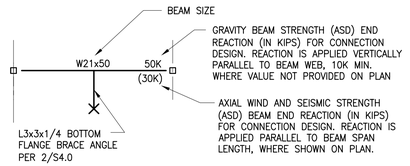
JOIST GIRDER LEGEND

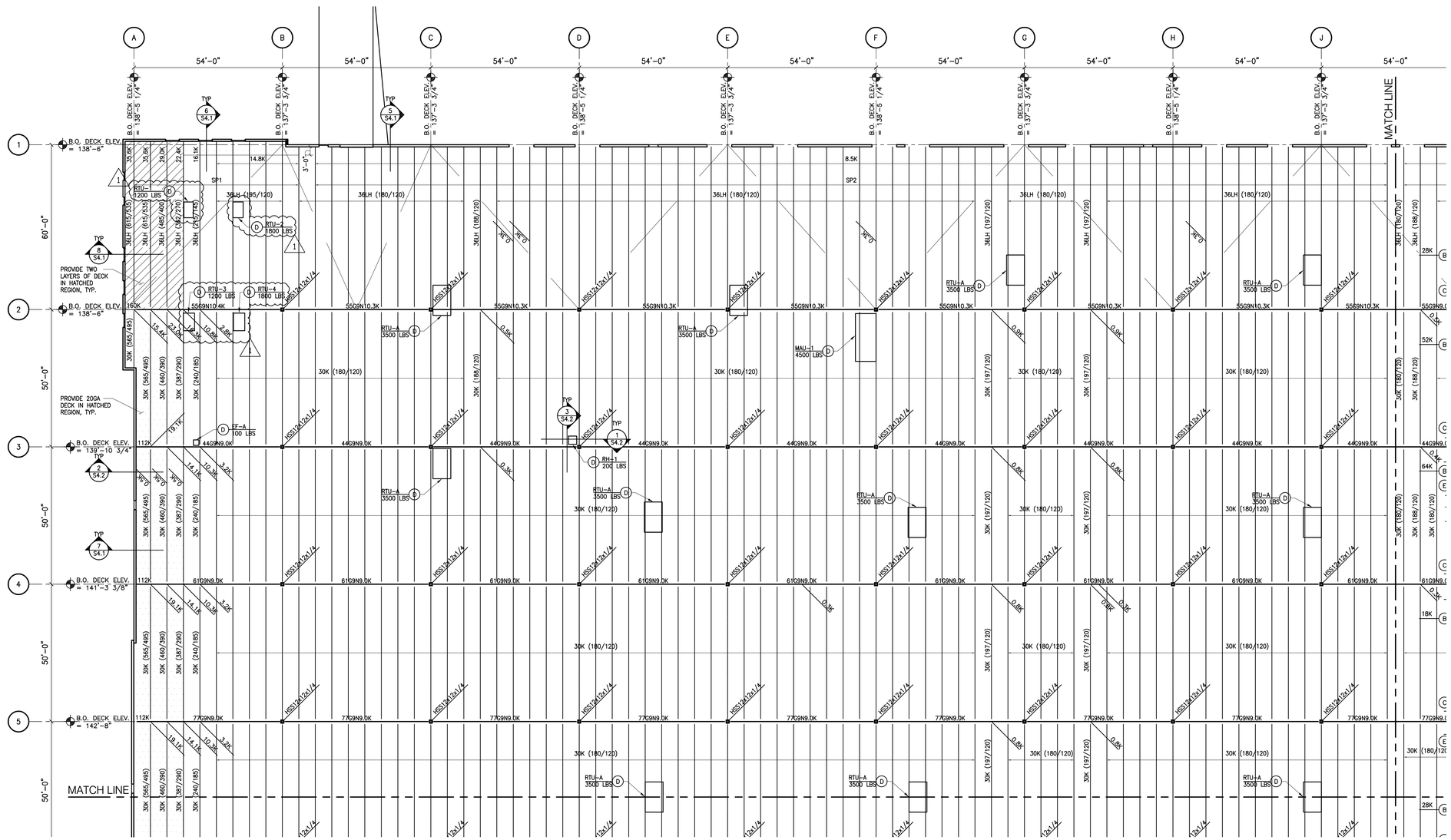


BEAM REACTION LEGEND

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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As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
12/27/2022

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CERTIFICATION

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

12/13/2022
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

S2.1
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)
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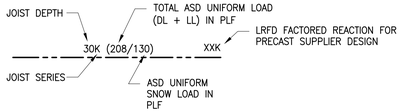
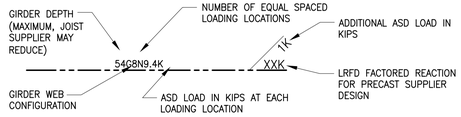
JOIST LEGEND



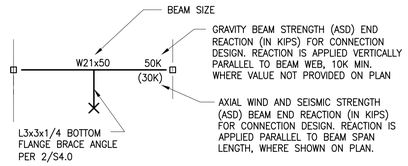
JOIST GIRDER LEGEND

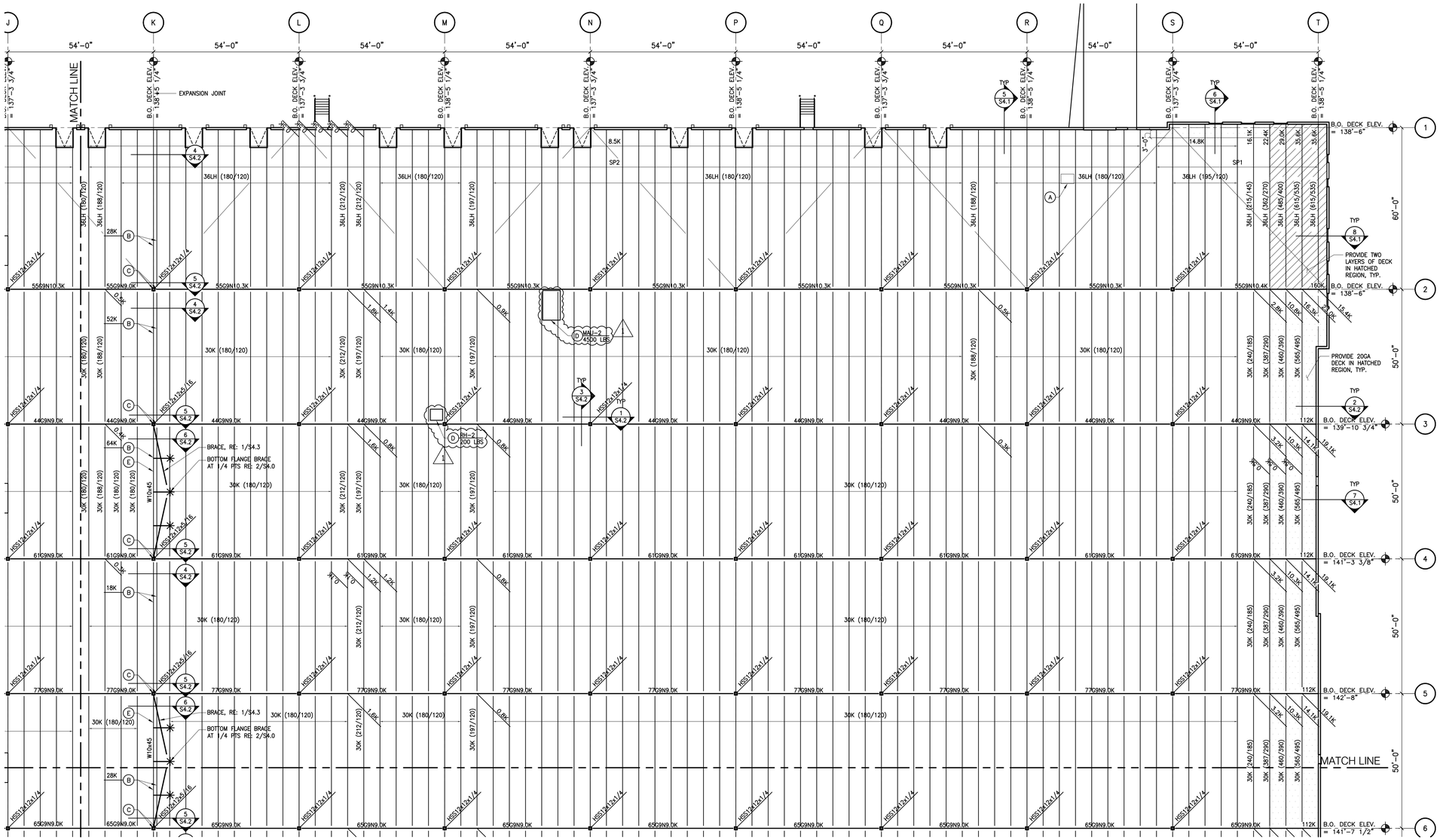


BEAM REACTION LEGEND

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"

N

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12/13/2022
Missouri COA #001268

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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

S2.2
ENLARGED PARTIAL FRAMING PLAN

PLAN REFERENCE NOTES:

- (A) ROOF HATCH, RE: ARCH. PROVIDE ANGLE FRAME AT OPENING, RE: 8/S4.0
- (B) JOIST SUPPLIER SHALL DESIGN JOISTS FOR AXIAL LOAD SHOWN.
- (C) DRAG STRUT SPLICE, RE: 9/S4.0.
- (D) 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.
- (E) 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)
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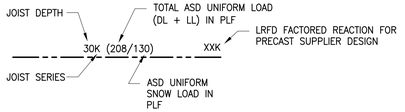
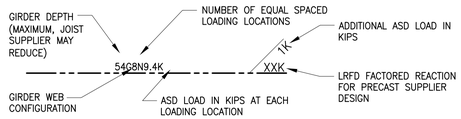
JOIST LEGEND



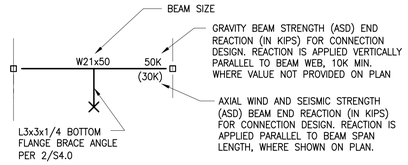
JOIST GIRDER LEGEND



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"

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JAMES M. GRANICH
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PROFESSIONAL ENGINEER

12/13/2022
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

S2.3
ENLARGED PARTIAL FRAMING PLAN

PLAN REFERENCE NOTES:

- Ⓐ ROOF HATCH, RE: ARCH. PROVIDE ANGLE FRAME AT OPENING, RE: 8/S4.0
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PLAN NOTES

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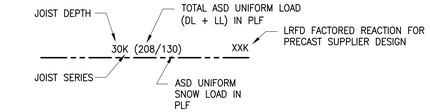
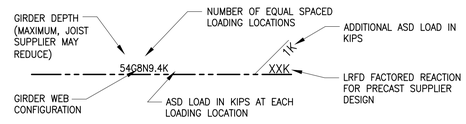


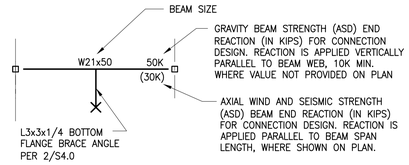
JOIST GIRDER LEGEND

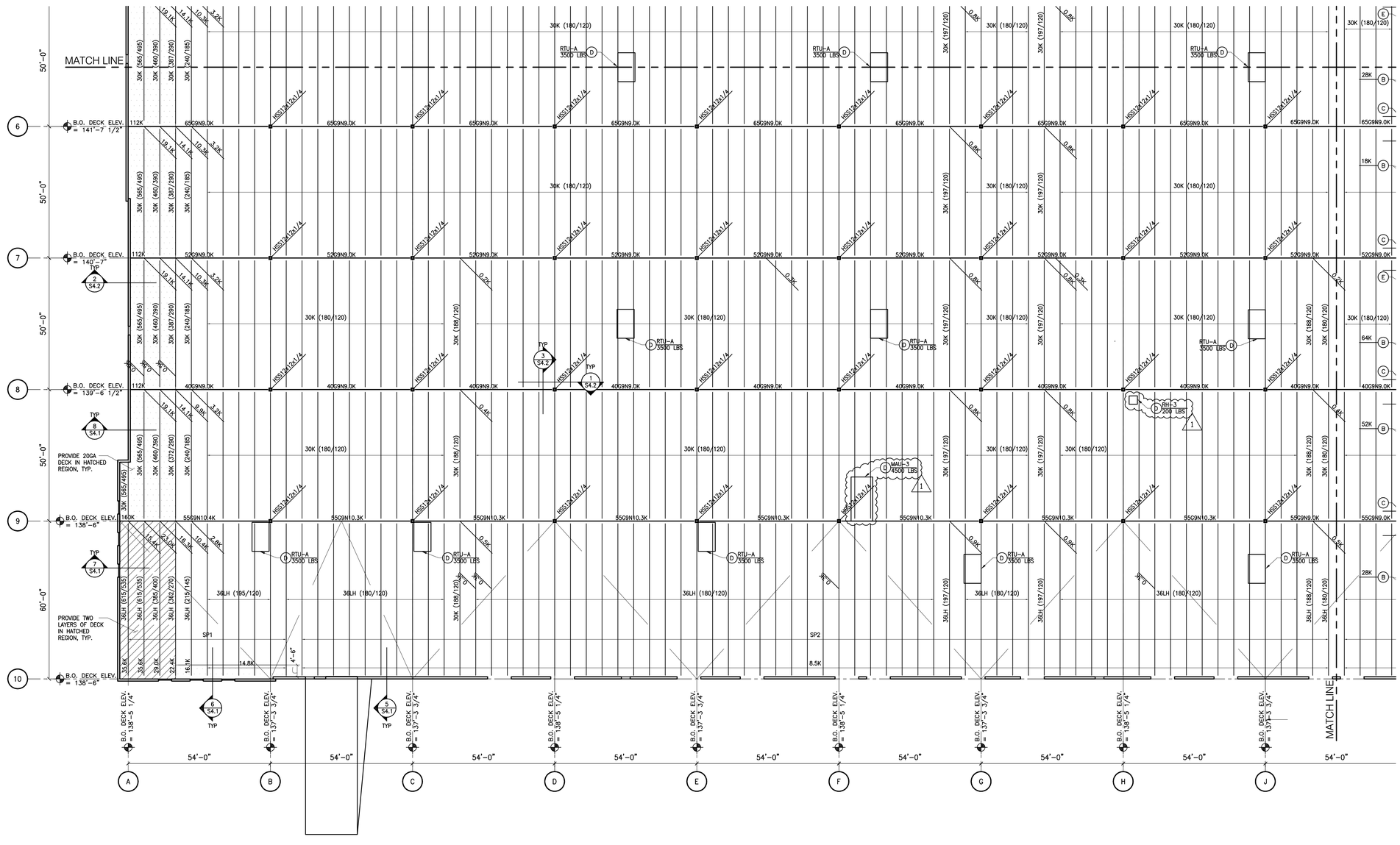


BEAM REACTION LEGEND

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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Development Services Department
Lee's Summit, Missouri
12/27/2022

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PROFESSIONAL ENGINEER

12/13/2022
Missouri COA #001268

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING A LOT 1

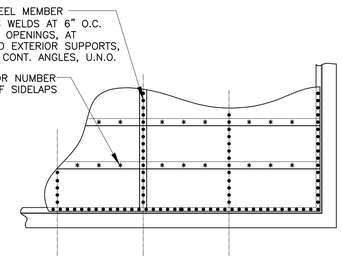
NW CORNER TUDOR RD & MAINST
LEE'S SUMMIT, MO

ISSUE DATES

ISSUE	DATE
ISSUE FOR PERMIT	02.18.2022
ISSUE FOR PERMIT	04.15.2022

210300

S2.4
ENLARGED PARTIAL FRAMING PLAN



CONNECTOR PATTERN DIAGRAM (36/4)

CONNECTOR PATTERN DIAGRAM (36/5)

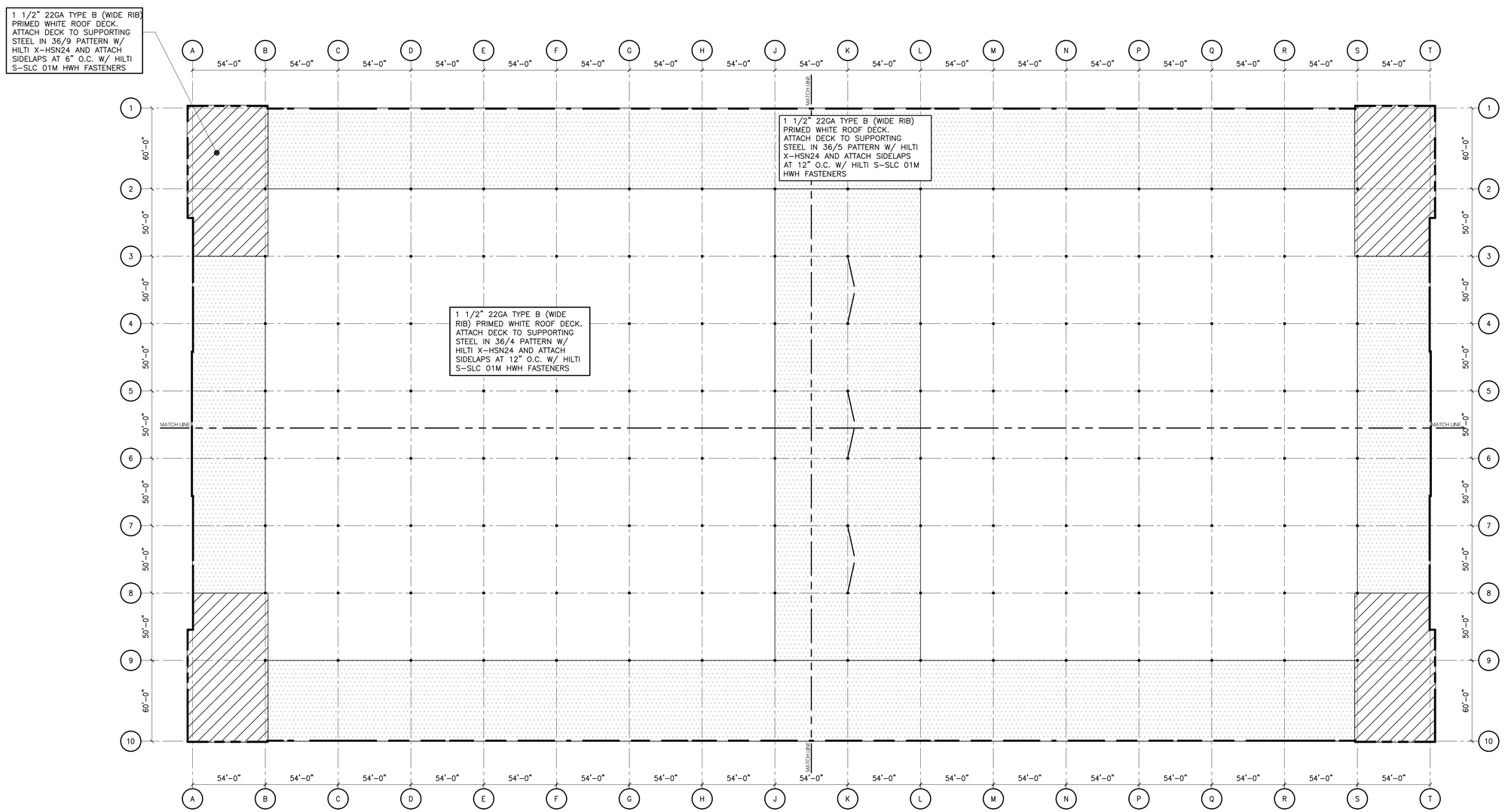
CONNECTOR PATTERN DIAGRAM (36/9)

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.

1½" TYPE B ROOF DECK

ROOF DIAPHRAGM CONNECTION DIAGRAM



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

N

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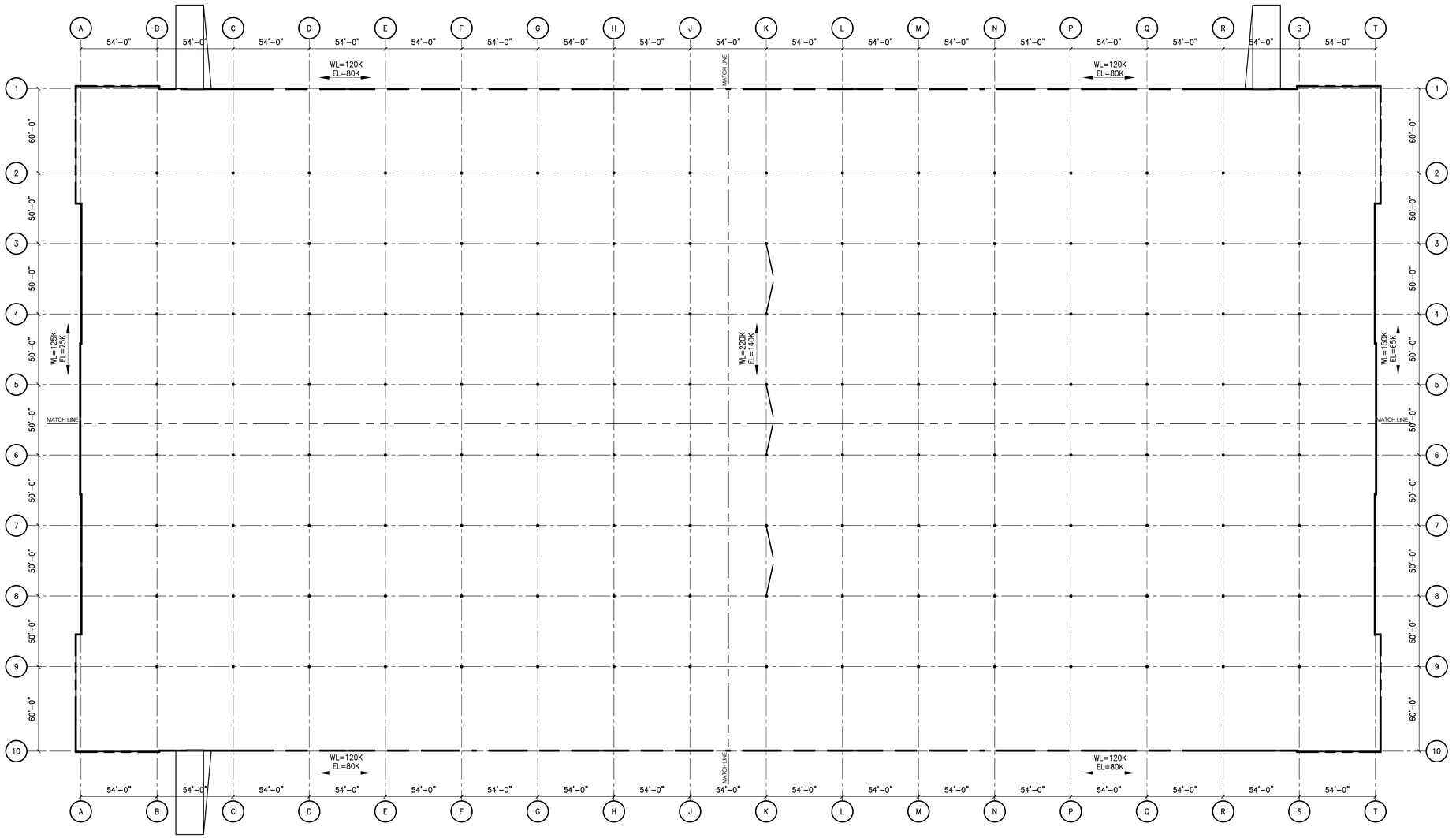
S2.5
ROOF DECK ATTACHMENT PLAN

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"

N

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12/27/2022

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BUILDING A LOT 1

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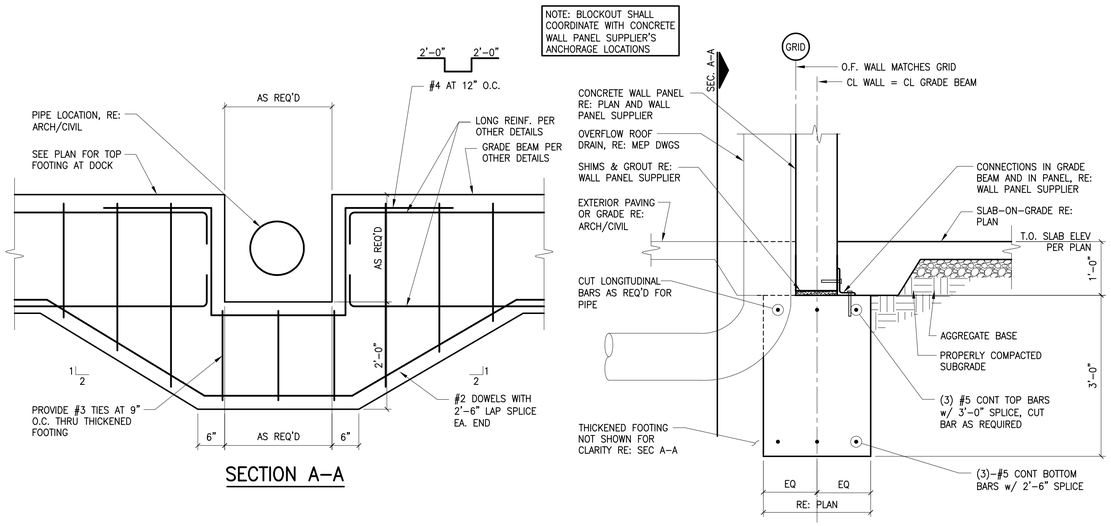
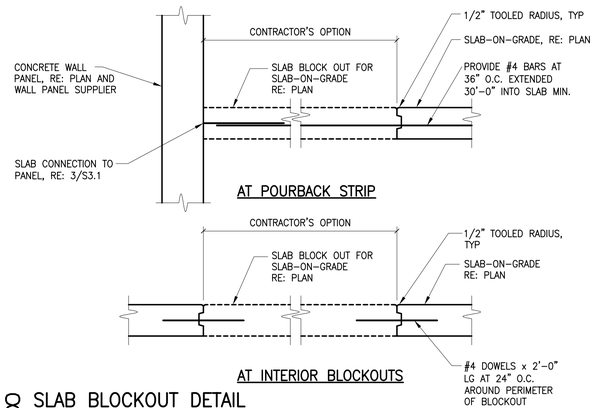
210300

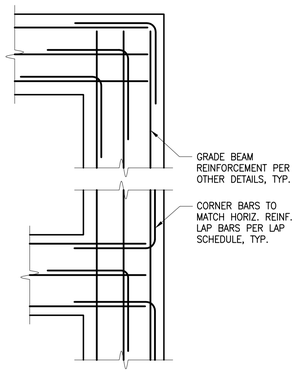
S2.6
LATERAL LOAD PLAN



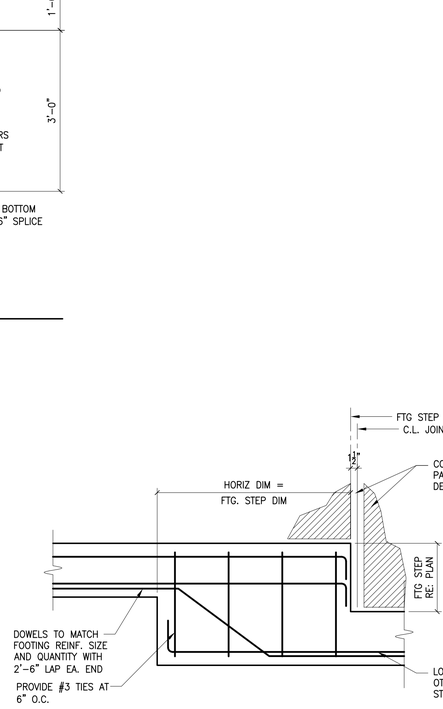
10 EXTERIOR FOOTING AT OVERFLOW DRAIN
3/4" = 1'-0"



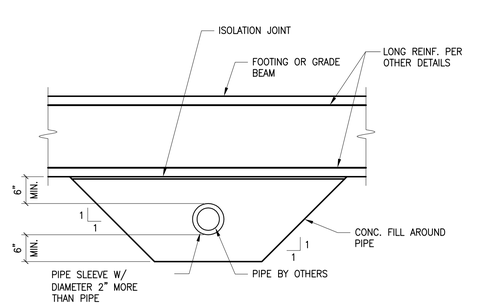
8 SLAB BLOCKOUT DETAIL
3/4" = 1'-0"



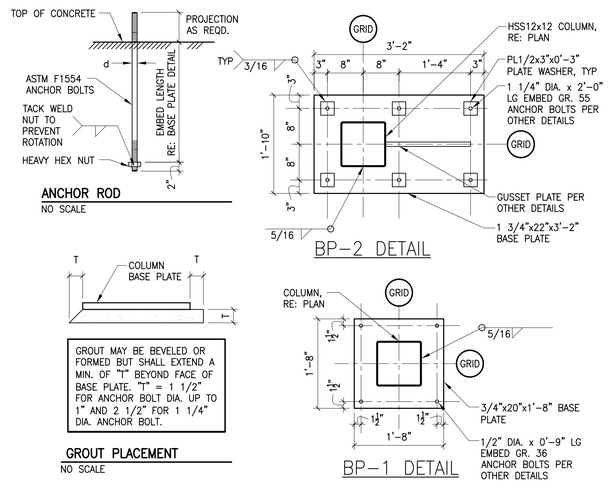
7 CORNER BAR DETAIL
3/4" = 1'-0"



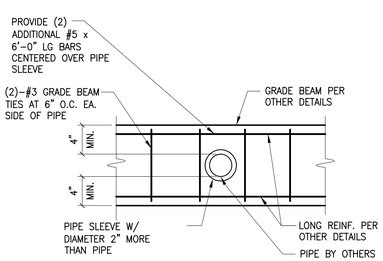
6 GRADE BEAM STEP DETAIL
3/4" = 1'-0"



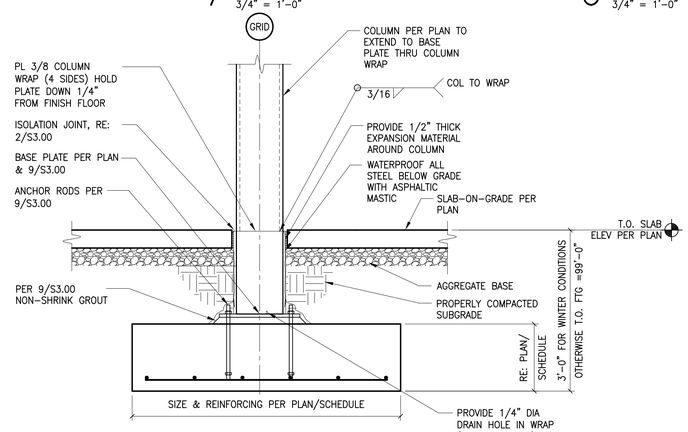
5 PIPE UNDER GRADE BEAM DETAIL
3/4" = 1'-0"



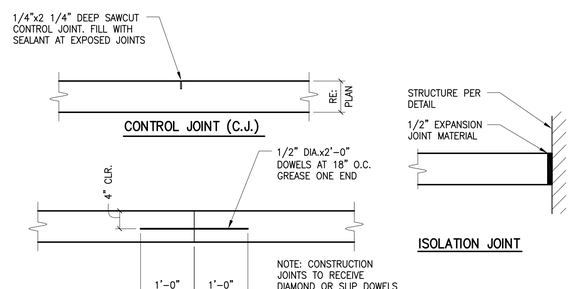
9 ANCHOR ROD BASE PLATE DIAGRAMS AND SCHEDULE
3/4" = 1'-0"



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"

1 CONC. LAP SCHEDULE
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

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CERTIFICATION

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

12/13/2022
Missouri COA #001268

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING A LOT 1

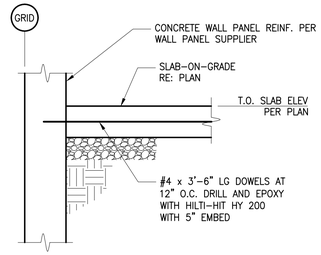
NW CORNER TUDOR RD & MAINST
LEE'S SUMMIT, MO

ISSUE DATES

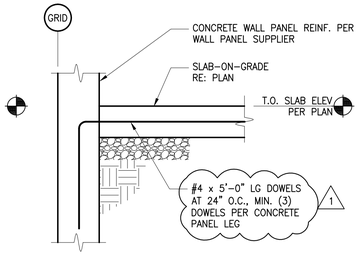
ISSUE	DATE
ISSUE FOR PERMIT	02.18.2022
ISSUE FOR PERMIT	04.15.2022

210300

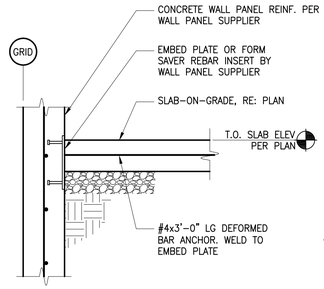
S3.0
FOUNDATION DETAILS



OPTION A

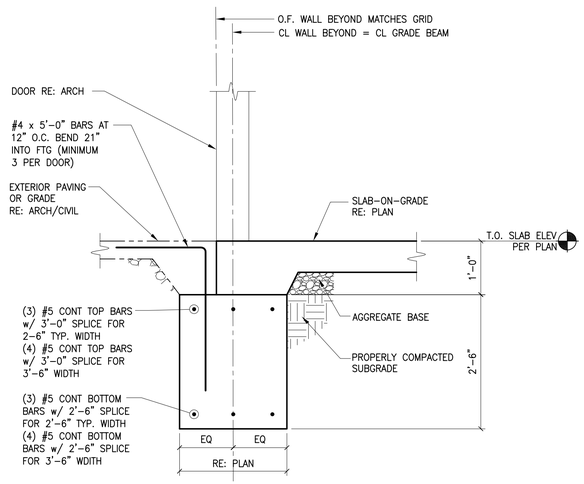


OPTION B

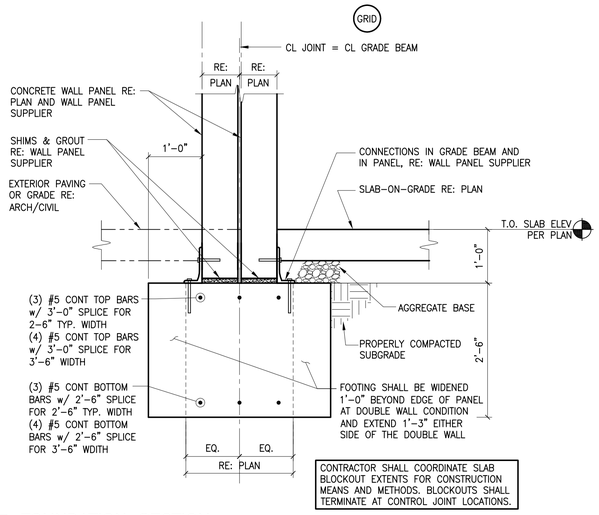


OPTION C

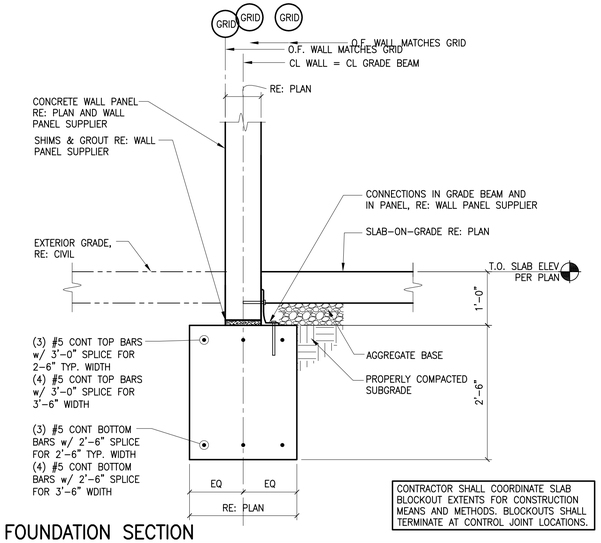
5 SLAB CONNECTION TO CONCRETE WALL PANEL OPTIONS
3/4" = 1'-0"



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



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



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

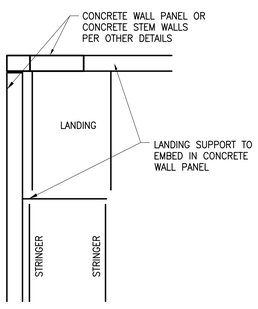
NOTE:

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.

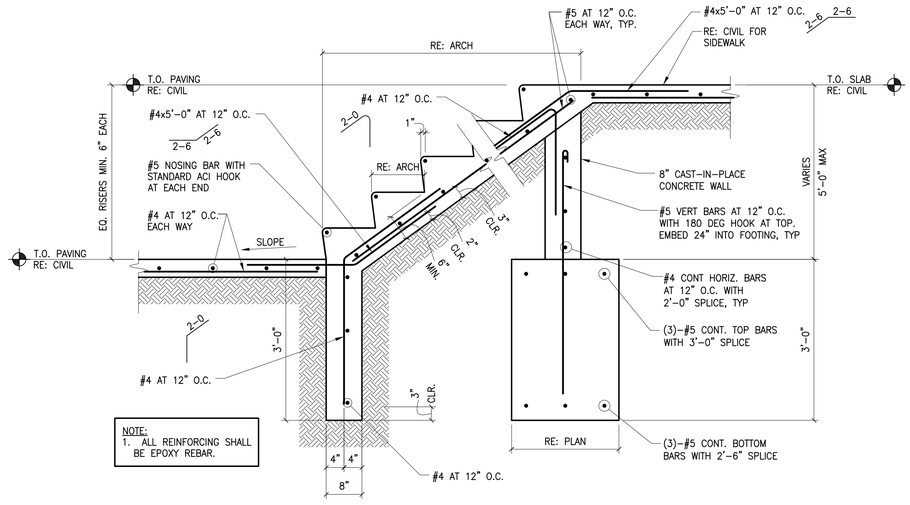
STAIR FRAMING, STRINGERS, TREADS, HANDRAILS, LANDINGS AND CONNECTION DETAILING AND DESIGN SHALL BE THE RESPONSIBILITY OF THE STEEL FABRICATOR. STEEL FABRICATOR SHALL INCLUDE THE DESIGN FOR ANY ATTACHMENTS TO THE BUILDINGS, FOUNDATIONS OR DIAPHRAGMS. DESIGN LOADS SHALL BE COORDINATED WITH THE ENGINEER 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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PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING A LOT I

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

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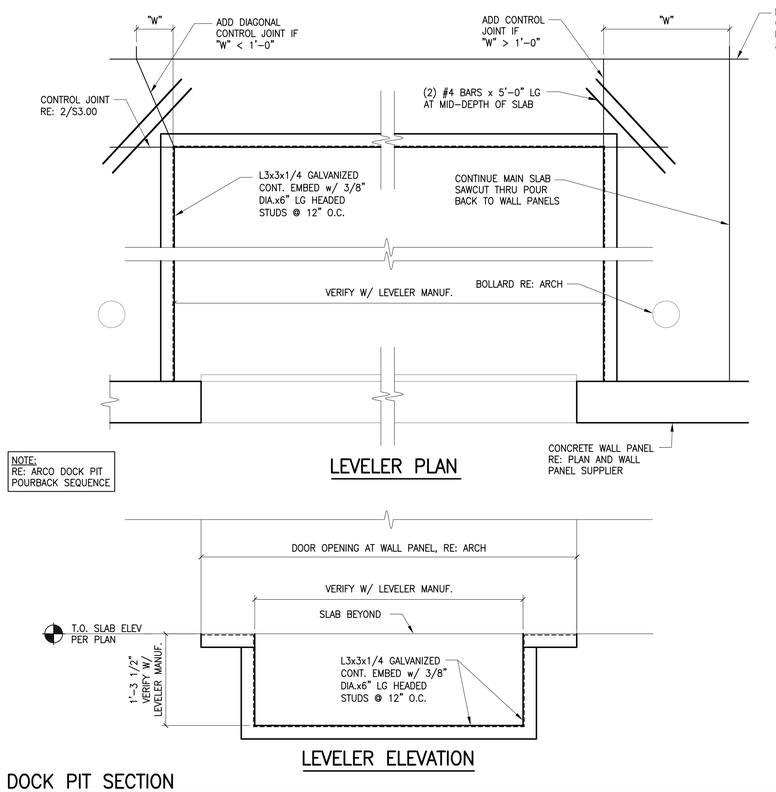
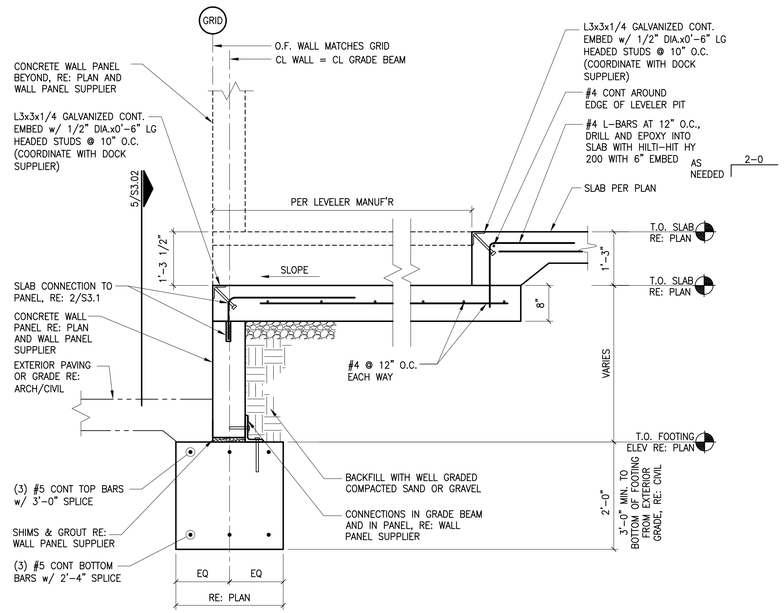
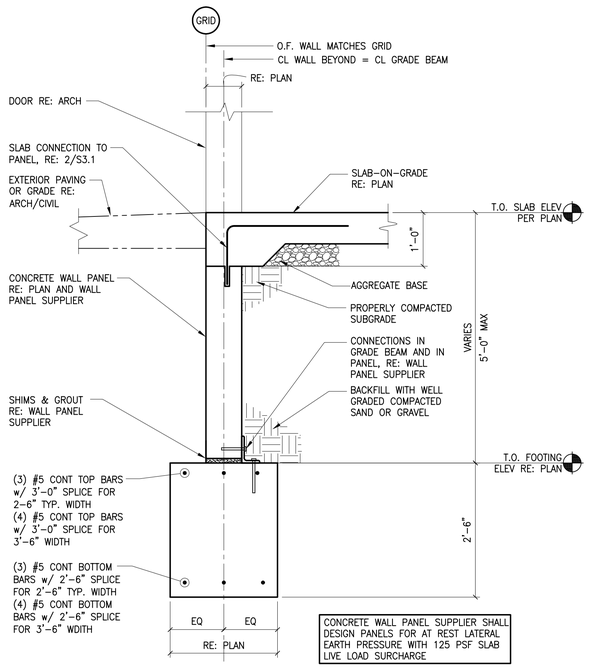
S3.1
FOUNDATION DETAILS



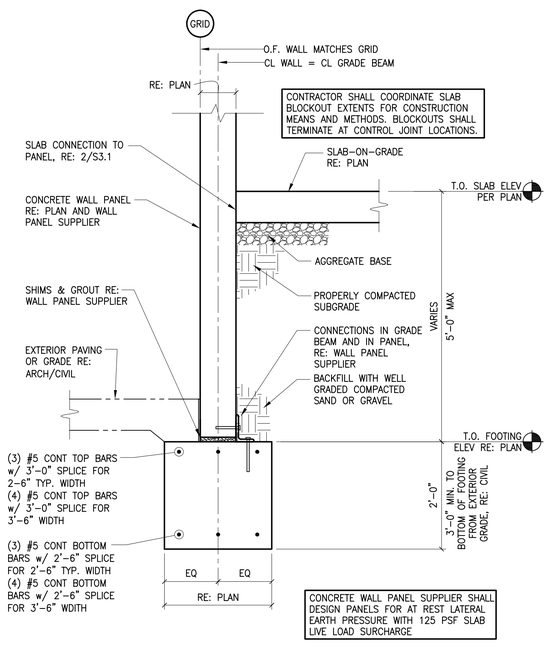
5 DOCK PIT SECTION
3/4" = 1'-0"



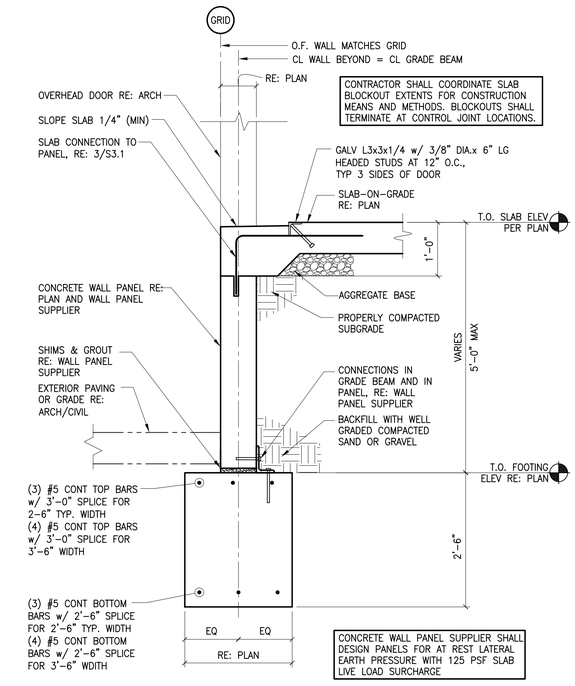
4 FOUNDATION SECTION
3/4" = 1'-0"



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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PROJECT INFORMATION

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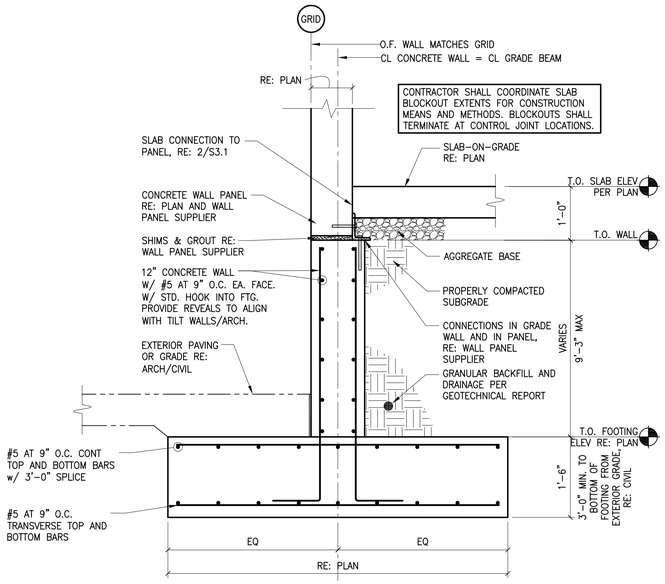
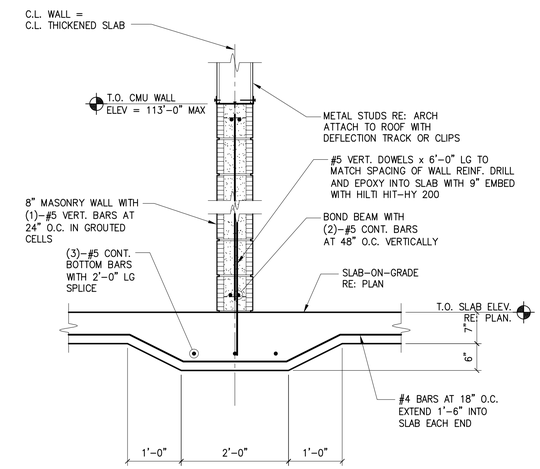
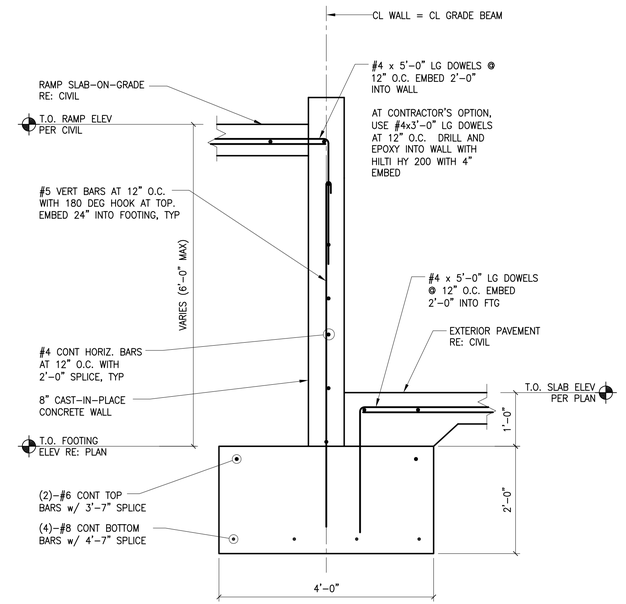
S3.2
FOUNDATION DETAILS



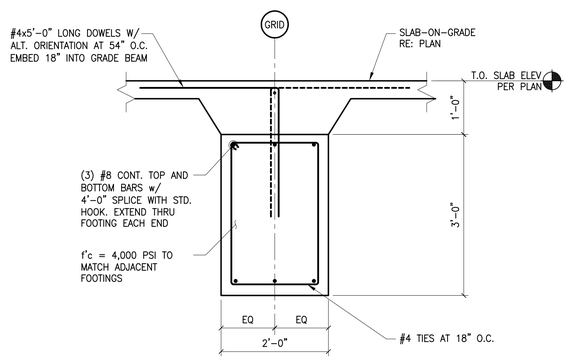
6 FOUNDATION SECTION
3/4" = 1'-0"



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

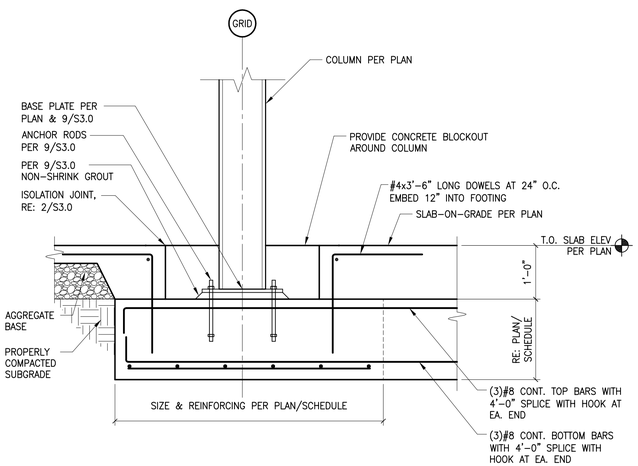


4 FOUNDATION SECTION
3/4" = 1'-0"

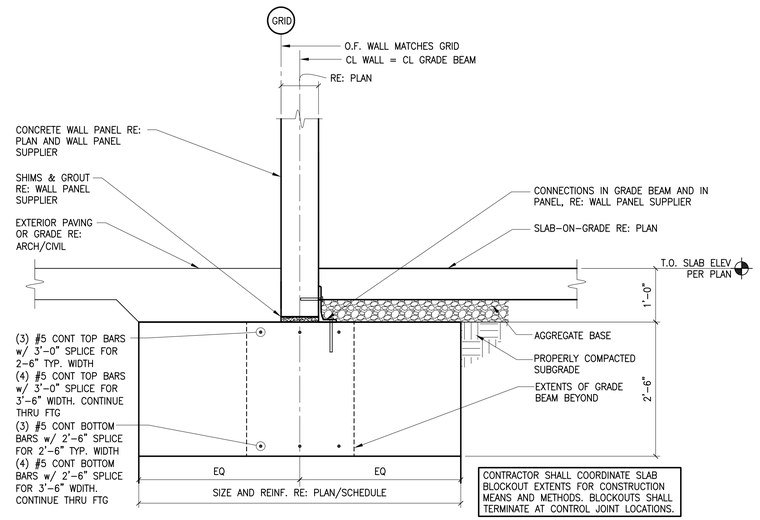


1

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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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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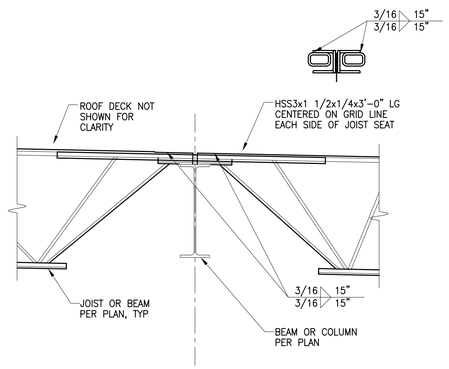
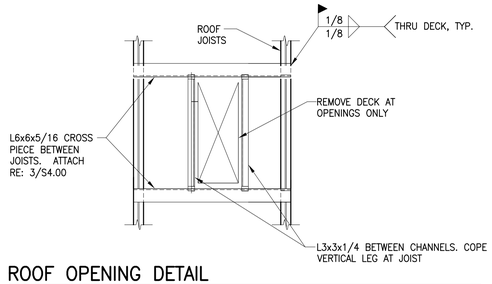
ISSUE FOR PERMIT	04.15.2022

210300

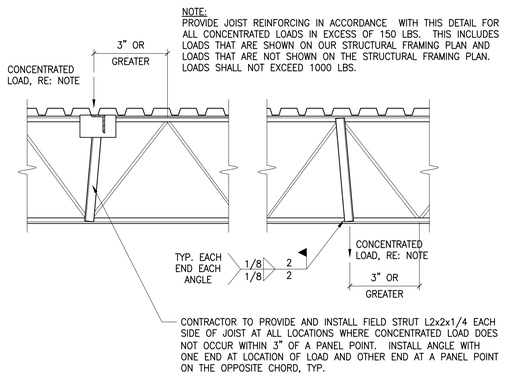
S3.3
FOUNDATION DETAILS



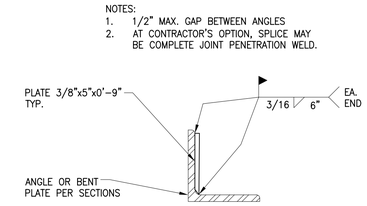
9 TYPICAL DRAG STRUT DETAIL AT EXPANSION JOINT
3/4" = 1'-0"



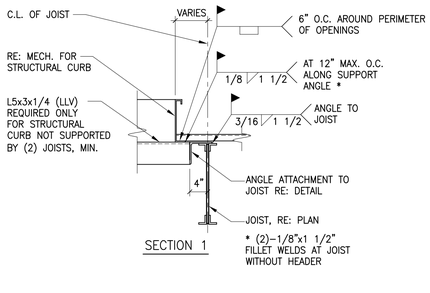
8 ROOF OPENING DETAIL
3/4" = 1'-0"



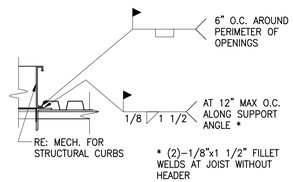
7 JOIST REINFORCING DETAIL
3/4" = 1'-0"



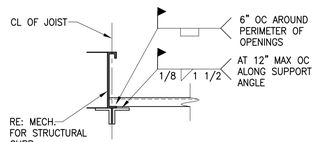
6 SPLICE DETAIL
3/4" = 1'-0"



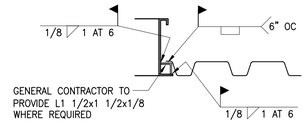
SECTION 1



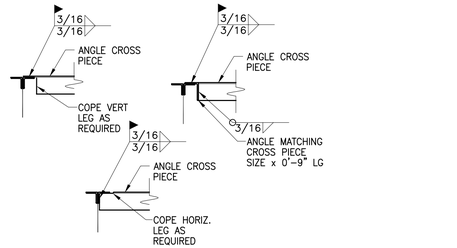
SECTION 2



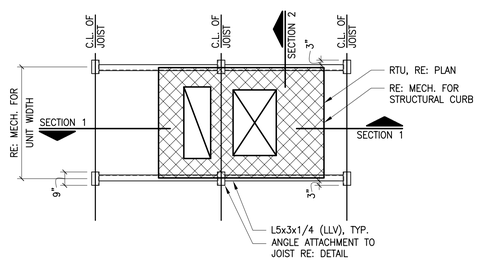
SECTION 3



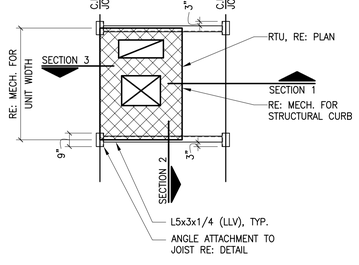
DETAIL 1



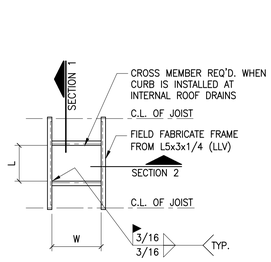
ANGLE ATTACHMENT TO JOIST DETAIL



TYP. AT UNIT SPANNING MULTIPLE JOISTS



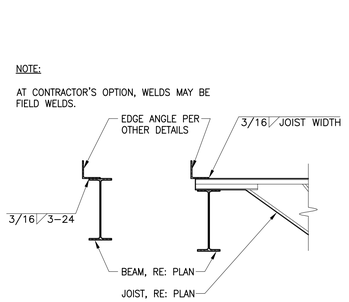
TYP. AT UNIT BETWEEN JOISTS



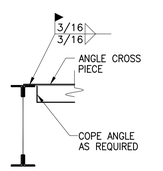
OPENING IN ROOF LARGER THAN 10"x10"

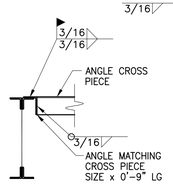
NOTES:
1. INSTALL CURBS, HEADERS, AND FRAMES AND WELD TO SUPPORT STEEL BEFORE DECK IS PLACED.
2. DESIGN JOISTS SUPPORTING RTU'S FOR TWO POINT LOADS. THE LOCATION OF THE LOADS AND THE SPACING BETWEEN THEM VARY. RE: RTU JOIST DIAGRAM THIS DETAIL AND ROOF FRAMING PLAN FOR POINT LOADS AND LOCATIONS.
3. RTU 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"

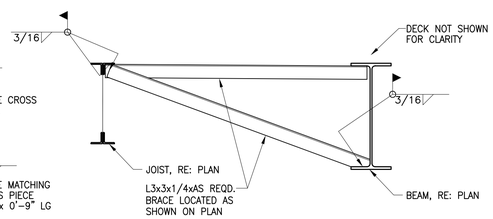


4 EDGE ANGLE CONNECTION DETAIL
3/4" = 1'-0"

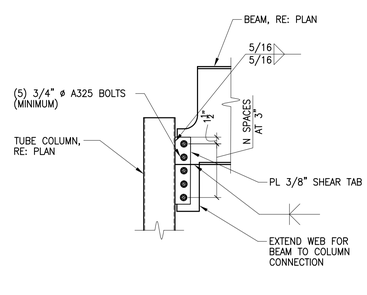




3 ANGLE CONNECTION DETAILS
3/4" = 1'-0"



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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ARCHITECTURE
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INDIANAPOLIS, IN 46216
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SCANNELL PROPERTIES

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Wallace Engineering
Structural Consultants, Inc.
Structural and Civil Consultants
1741 McGee Street
Kansas City, Missouri 64108
816.421.8282, Fax 816.421.8338

CERTIFICATION

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

12/13/2022
Missouri COA #001268

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING A LOT 1

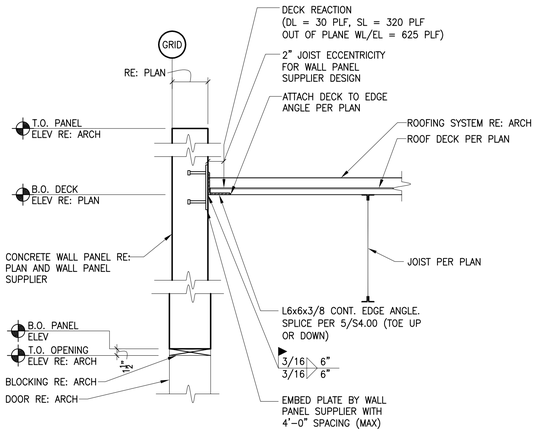
NW CORNER TUDOR RD & MAINST
LEE'S SUMMIT, MO

ISSUE DATES

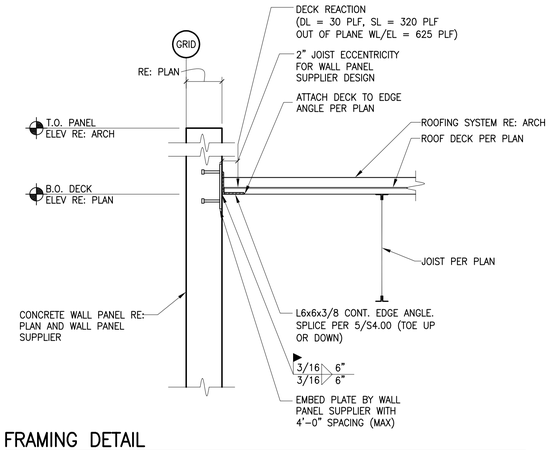
ISSUE	DATE
ISSUE FOR PERMIT	02.18.2022
ISSUE FOR PERMIT	04.15.2022

210300

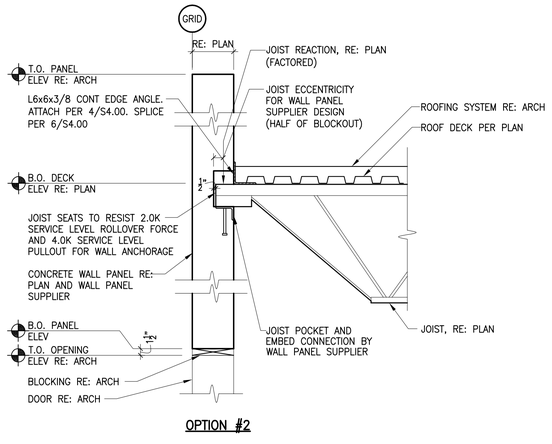
S4.0
FRAMING DETAILS



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



7 FRAMING DETAIL
3/4" = 1'-0"



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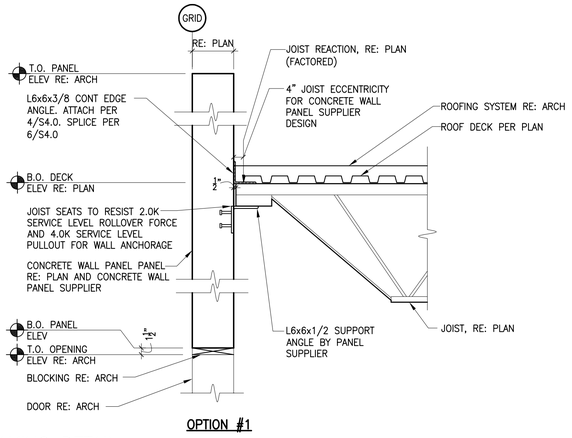
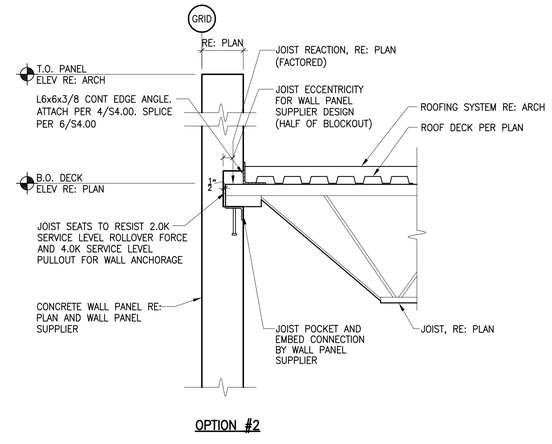


OPTION #1

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



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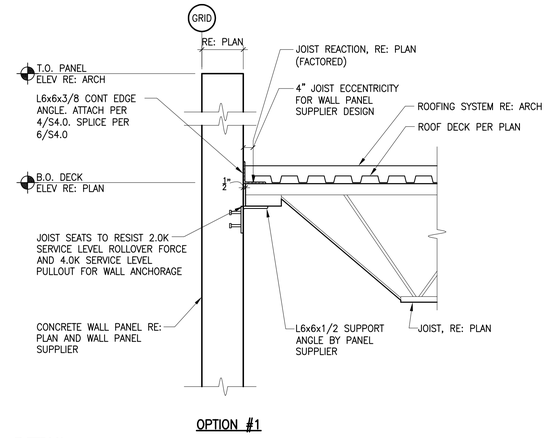
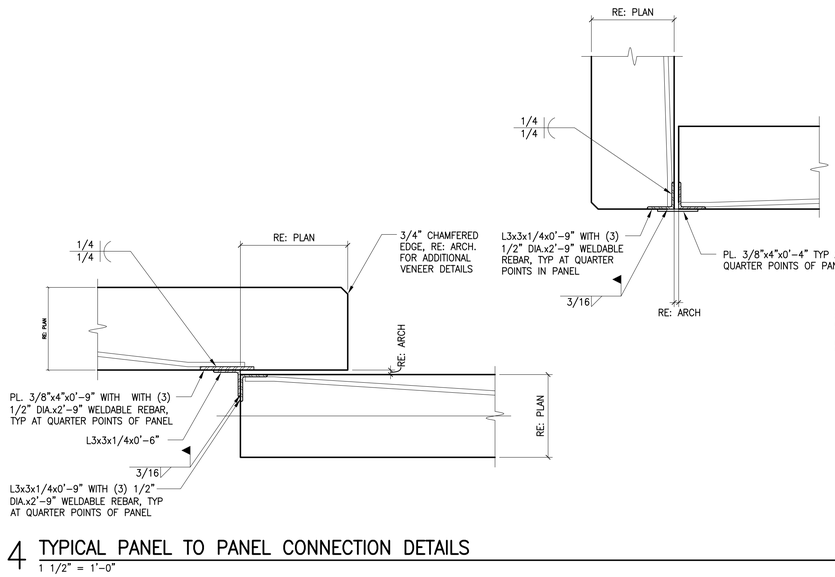
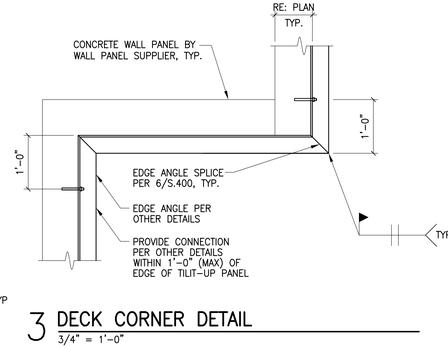


OPTION #1

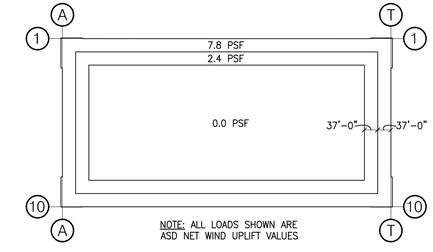
5 FRAMING DETAIL
3/4" = 1'-0"



4 TYPICAL PANEL TO PANEL CONNECTION DETAILS
1 1/2" = 1'-0"

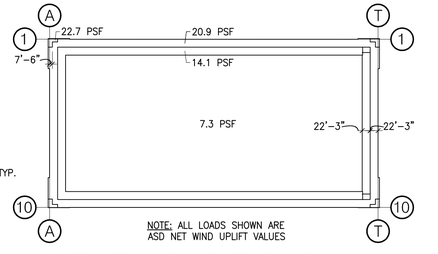


3 DECK CORNER DETAIL
3/4" = 1'-0"



NOTE: ALL LOADS SHOWN ARE ASD NET WIND UPLIFT VALUES

2 GIRDER NET WIND UPLIFT DIAGRAM
NO SCALE



NOTE: ALL LOADS SHOWN ARE ASD NET WIND UPLIFT VALUES

1 JOIST NET WIND UPLIFT DIAGRAM
NO SCALE

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
12/27/2022

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PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING A LOT I

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

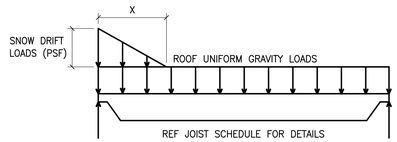
ISSUE DATES

ISSUE	DATE
ISSUE FOR PERMIT	02.18.2022
ISSUE FOR PERMIT	04.15.2022

210300

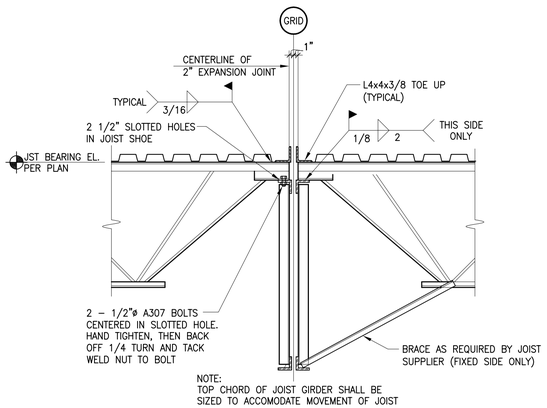
S4.1
FRAMING DETAILS

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

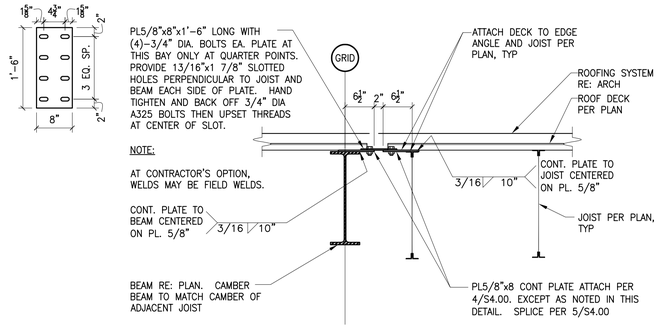


JOIST DIAGRAM

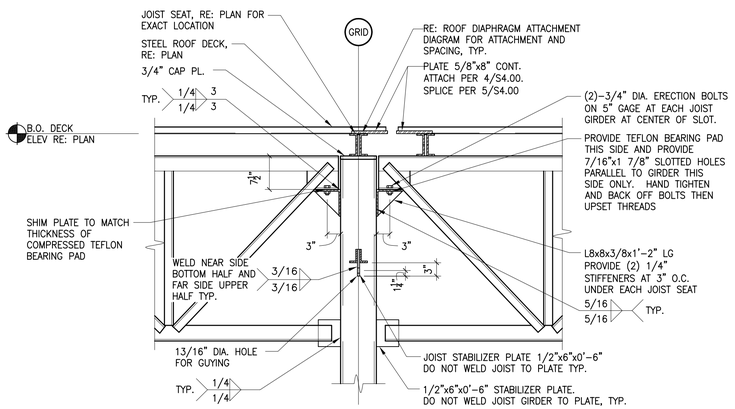
8 SPECIAL JOIST SCHEDULE
3/4" = 1'-0"



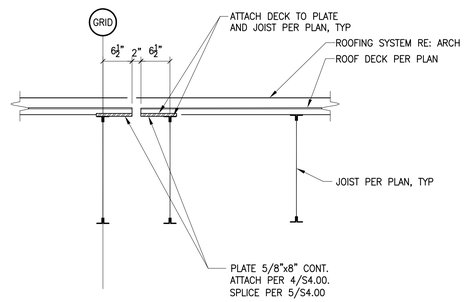
7 JOIST TO GIRDER DETAIL AT EXPANSION JOINT
3/4" = 1'-0"



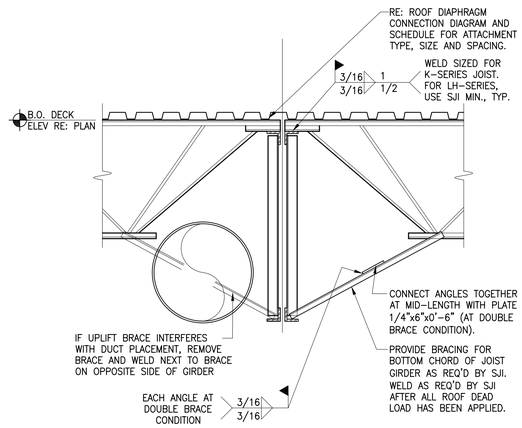
6 JOIST TO BEAM DETAIL AT EXPANSION JOINT
3/4" = 1'-0"



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



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

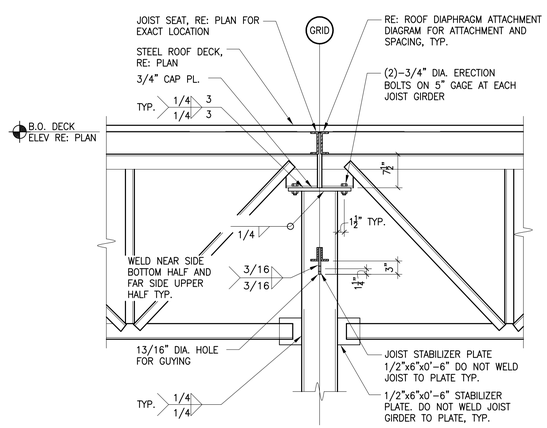


3 JOIST/JOIST GIRDER SECTION
3/4" = 1'-0"

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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12/13/2022
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

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JAMES M. GRANICH
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12/13/2022
Missouri COA #001268

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING A LOT 1

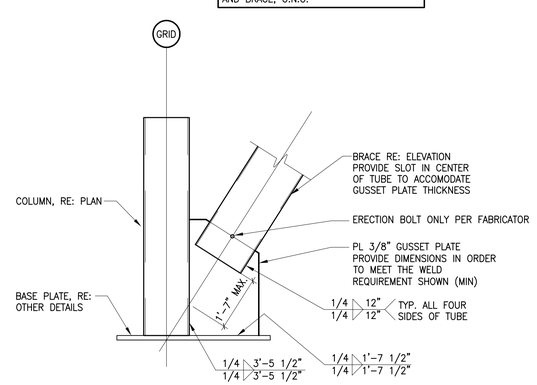
NW CORNER TUDOR RD & MAINST
LEE'S SUMMIT, MO

ISSUE DATES

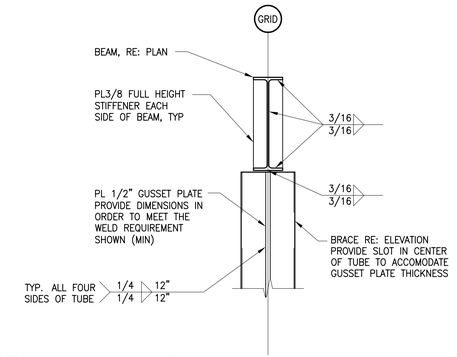
ISSUE	DATE
ISSUE FOR PERMIT	02.18.2022
ISSUE FOR PERMIT	04.15.2022

210300

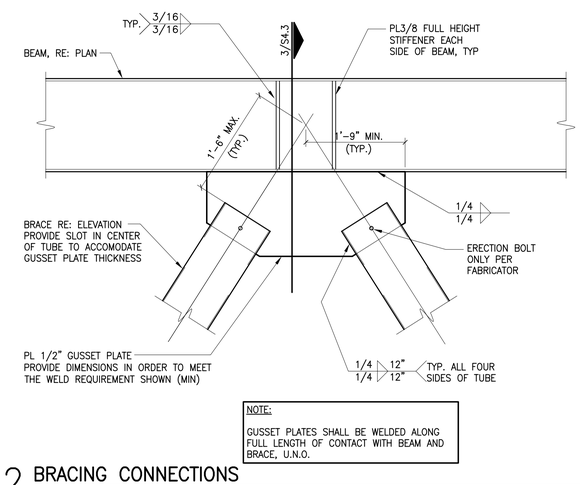
S4.3
FRAMING DETAILS



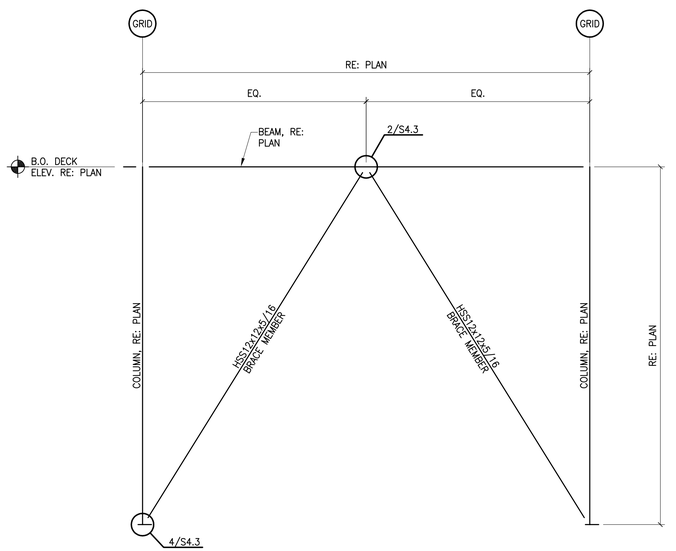
4 BRACING CONNECTIONS
N.T.S.



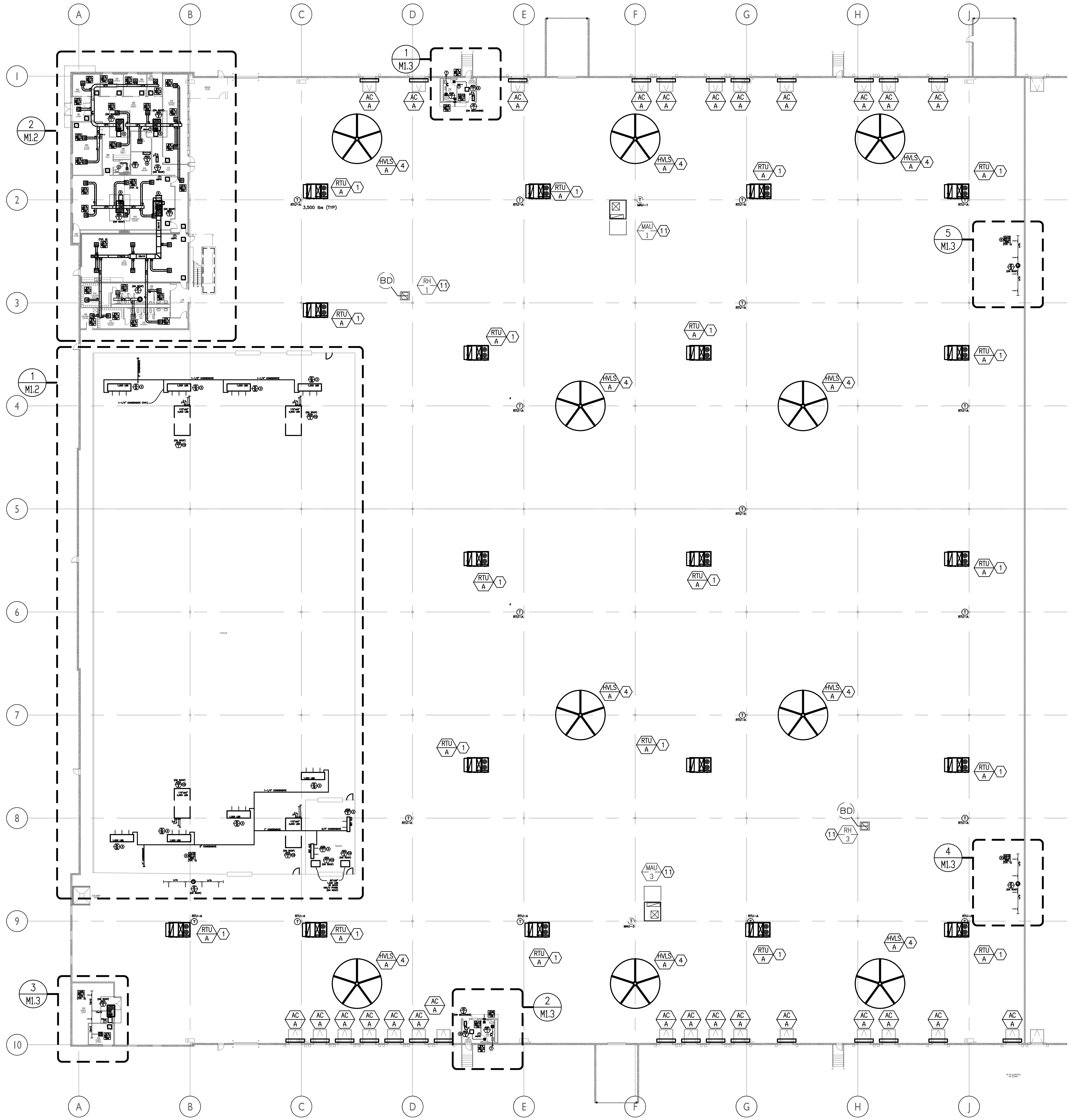
3 BRACING CONNECTIONS
3/4" = 1'-0"



2 BRACING CONNECTIONS
N.T.S.



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



1 Overall Mechanical Floor Plan

scale: 1" = 25'-0"

north

MECHANICAL GENERAL NOTES:

1. ALL MECHANICAL DUCTWORK SHALL BE GALVANIZED STEEL, CONSTRUCTED ACCORDING TO SMACNA STANDARDS.
2. ALL CONCEALED SUPPLY AIR AND RETURN AIR DUCTWORK SHALL BE EXTERNALLY INSULATED WITH 2" THICK, 3/4 LB DENSITY FIBERGLASS DUCT WRAP.
   ALL EXPOSED (WAREHOUSE) SUPPLY AIR DUCTWORK AND RETURN AIR DUCTWORK SHALL BE INTERNALLY INSULATED WITH 1" THICK, 2 LB DENSITY FIBERGLASS DUCT LINER.
3. HVAC CONTRACTOR WILL CHECK EACH SYSTEM FOR PROPER OPERATION.
4. HVAC CONTRACTOR SHALL HAVE AN INDEPENDENT CONTRACTOR TO TEST & BALANCE HVAC SYSTEM TO THE PROPER AIRFLOWS AND STATIC PRESSURES. A COPY OF THE BALANCING REPORT WILL BE SUBMITTED TO THE OWNER UPON COMPLETION. AIR TO (+/-) 10% , WATER TO (+/-) 5%.
5. FLEXIBLE RUN-OUTS TO BE U.L. LISTED AND HAVE A MAXIMUM LENGTH OF 8'-0". DUCT RUNS TO BE SAME SIZE AS DIFFUSER NECK SIZE SHOWN.
6. AIR HANDLING UNITS SUPPLYING 2,000 CFM OR MORE SHALL HAVE A SMOKE DETECTOR INSTALLED IN THE RETURN AIR DUCTWORK. THE SMOKE DETECTOR SHALL BE INTERLOCKED TO SHUT DOWN ALL SUPPLY FANS UPON ALARM.
7. MAINTAIN MINIMUM 10'-0" FROM ALL PLUMBING VENTS AND EXHAUST VENTS TO ALL OUTSIDE AIR INTAKES.
8. DO NOT INSTALL PIPING OR DUCTWORK OVER ELECTRICAL PANELS.
9. ALL COOLER/FREEZER REFRIGERANT PIPING TO BE INSULATED WITH 1" ARMAFLEX. ALL CONDENSATE PIPING TO BE INSULATED WITH 1" ARMAFLEX. CPVC CAN BE USED FOR ALL NON-HEAT TRACED CONDENSATE PIPING. COPPER TO BE USED FOR ALL HEAT-TRACED CONDENSATE.
   PROVIDE HEAT TRACING ON ALL CONDENSATE PIPING IN FREEZER PER MANUFACTURER'S RECOMMENDATIONS.
   PROVIDE UV PAINT ON ALL EXTERIOR INSULATION.

MECHANICAL PLAN NOTES:

1. COORDINATE LOCATION OF RTU WITH FIRE SUPPRESSION PIPING AND STRUCTURE. PROVIDE INTERNALLY LINED RETURN AIR DUCT DROP WITH MESH SCREEN AND PROVIDE SUPPLY AIR DISCHARGE DROP BOX DIFFUSER SIMILAR TO CURBS PLUS DLPD 4015-30. NC TO BE UNDER 35 AT 9,000 CFM. PROVIDE SUPPLY AIR TRANSITION FROM RTU OPENING TO DROPBOX DIFFUSER AS REQUIRED. MOUNT THERMOSTAT ON ADJACENT COLUMN.
2. PROVIDE 6" EXHAUST VENT UP THROUGH ROOF. PROVIDE WITH WEATHERCAP.
3. ROUTE CONDENSATE AS DIRECTED TO FLOOR DRAIN. PROVIDE HEAT TRACE ON ALL FREEZER CONDENSATE PIPING.
4. COORDINATE EXACT LOCATION OF HVLS FAN. PROVIDE ASSOCIATED FAN CONTROLLER ON ADJACENT COLUMN.
5. ROUTE FULL SIZE RETURN AIR DUCT DOWN TO 36" ABOVE FINISH CEILING AND PROVIDE WITH SCREENED MESH OPENING.
7. PROVIDE 6" EXHAUST VENT OUT THROUGH WALL. PROVIDE WITH WEATHERCAP.
8. INSTALL BATTERY CHARGING EXHAUST DUCTWORK TIGHT TO BOTTOM OF STRUCTURE. PROVIDE EXHAUST GRILLES AS NOTED AT 30" FROM BOTTOM OF DUCT. EXHAUST FAN TO RUN CONTINUOUSLY.
9. ROUTE CONDENSATE PIPING TO SINK TAILPIECE OR HUB DRAIN ABOVE CEILING FURNISHED BY PLUMBER
10. INSTALL CONDENSING UNIT ON ROOF RAILS.
11. EXISTING SHELL BUILDING EQUIPMENT TO REMAIN AS CURRENTLY INSTALLED.

LEGEND

HVLS 1	GREENHECK HVLS/CIRCULATION FAN 24'-0" DIAMETER MODEL DS-6-24-170HV – 2HP, 460/3 PHASE, 250 LBS AND 6 BLADES. PROVIDE WITH MOUNTING ACCESSORIES AND CENTRAL CONTROL PANEL WITH BACNET INTERFACE FOR ALL (10) FANS. CONDUIT AND CONTROL WIRING BY OTHERS. (TYP. 10)
AC A	AIR CURTAIN – POWERED AIR MODEL ETD-2-108E. UNIT TO BE 108" LONG WITH 10 KW ELECTRIC HEATING. 16 MCA @ 460/3 PHASE, 220 LBS. PROVIDE WITH MAGNETIC DOOR SWITCH, WHITE INTAKE SUPPLY GRILLE, WALL MOUNTED THERMOSTAT AND WASHABLE ALUMINUM FILTER (TYP. 27)
EWH 1	ELECTRIC WALL HEATER – RAYWALL OR EQUAL. 2KW @ 277/1 PHASE. PROVIDE WITH RECESS MOUNTING FRAME, DISCONNECT, INTEGRAL THERMOSTAT.
⊠	SD-1 SUPPLY AIR DIFFUSER – AS SCHEDULED
▨	RG-1 RETURN AIR GRILLE – AS SCHEDULED
▨	RG-2 RETURN AIR GRILLE – AS SCHEDULED
⊠	EX-1 EXHAUST AIR GRILLE – AS SCHEDULED
⊠	EX-2 EXHAUST AIR GRILLE – AS SCHEDULED
↓	SG-1 SUPPLY AIR GRILLE – AS SCHEDULED SG-2 SUPPLY AIR GRILLE – AS SCHEDULED
↑	RETURN AIR GRILLE – AS SCHEDULED
T VAV 1-3	THERMOSTAT WITH ZONE/UNIT DESIGNATION. MOUNT AT 48" A.F.F.
CO_2	CARBON DIOXIDE SENSOR – MOUNT IN RETURN OR WALL AS SHOWN

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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
9/6/2022
PROFESSIONAL ENGINEER

ISSUE DATES

PERMIT SET	04.21.22

MetroAir

LSCC BLDG. #1 – TI		
LEE'S SUMMIT, MO		
SCALE: AS NOTED	DATE: 9/6/22	DRAWN BY: M.D.K.
APPROVED BY: JDG	DWG # M1 of 5	
PERMIT DWGS.		

210300

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:

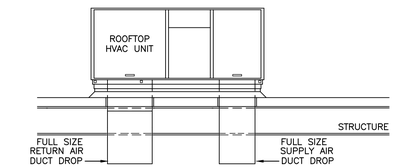
A. Clean system by operating at least three hours prior to final acceptance with temporary filters. Remove all filters and replace with clean.

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

1.10 TESTING AND ADJUSTING:

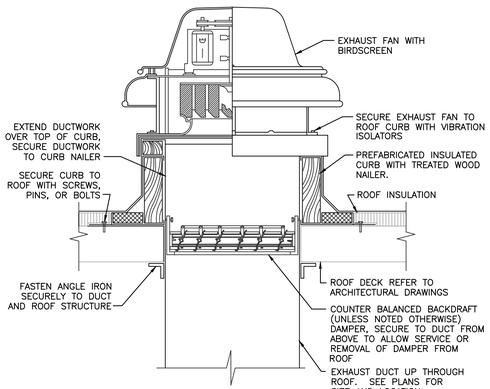
A. Contractor shall operate and test the air conditioning and ventilation systems and instruct the Owner in its operation. Perform a series of general capacity and operating tests. The tests shall demonstrate the specified capacities of various pieces of equipment.

END OF SECTION

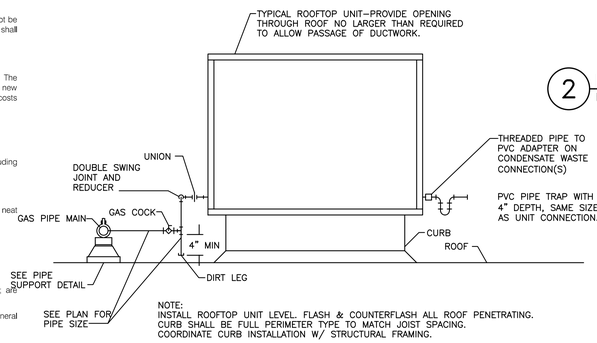


NOTES
1. PROVIDE OPENING THROUGH ROOF AND ROOF DECK INSULATION NO LARGER THAN REQUIRED TO ALLOW DUCTS TO PASS THROUGH. REFER TO PLANS FOR DUCT SIZES. FUTURE TI DUCTWORK CONNECTION BY OTHERS.

1 ROOFTOP UNIT DETAIL
NO SCALE

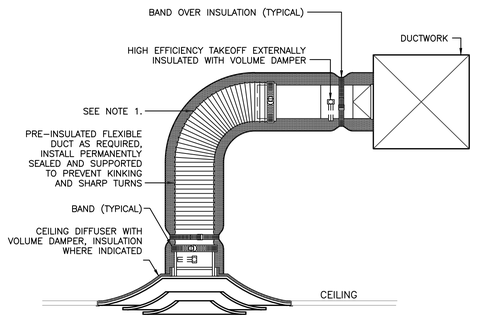


2 DOWNBLAST EXHAUST FAN DETAIL
NO SCALE



NOTE:
INSTALL ROOFTOP UNIT LEVEL. FLASH & COUNTERFLASH ALL ROOF PENETRATING. CURB SHALL BE FULL PERIMETER TYPE TO MATCH JOIST SPACING. COORDINATE CURB INSTALLATION W/ STRUCTURAL FRAMING.

3 ROOFTOP UNIT CONNECTION DETAIL
NO SCALE



NOTES:
1. EXTEND HARD METAL DUCT SO THAT MAXIMUM FLEXIBLE DUCT LENGTH DOES NOT EXCEED 8'–0".
2. DUCTWORK BRANCH RUNOUTS TO BE SAME SIZE AS DIFFUSER NECK UNLESS NOTED OTHERWISE.

4 CEILING DIFFUSER DETAIL
NO SCALE

ROOFTOP UNIT - CONSTANT VOLUME WITH SINGLE SETPOINT CONTROL (ALL RTU'S)
1. DESCRIPTION:
EACH SINGLE-ZONE PACKAGED ROOFTOP UNIT (RTU) WILL BE PROVIDED AS IDENTIFIED ON THE EQUIPMENT SCHEDULES, WITH DIRECT EXPANSION COOLING COIL, GAS HEAT, SINGLE-SPEED SUPPLY FAN, 2" FILTERS, ECONOMIZER, BAROMETRIC RELIEF, AND FIELD POWERED GFCI CONVENIENCE OUTLET. ECONOMIZERS SHALL BE 0-100% FULLY MODULATING WITH ENTHALPY CONTROL, LOW LEAK DAMPERS.
2. CONTROL:
EACH UNIT SHALL BE FURNISHED WITH A THERMOSTAT TO BE INSTALLED IN THE SPACE. THE OCCUPANCY MODE SHALL BE DETERMINED THROUGH A USER-ADJUSTABLE PROGRAMMABLE SCHEDULE WITH OR WITHOUT USER OVERRIDE BUTTON ON THE THERMOSTAT.
3. SUPPLY AIR FAN:
THE FAN MODE SHALL SHALL BE SELECTABLE FOR AUTO OR ON. WHEN AUTO IS SELECTED, THE FAN SHALL CYCLE ON AND OFF WITH HEATING OR COOLING. WHEN ON IS SELECTED, THE FAN SHALL OPERATE CONTINUOUS.
4. MECHANICAL COOLING:
EACH RTU SHALL CYCLE COOLING COMPRESSOR STAGES IN RESPONSE TO COOLING DEMAND FROM THE THERMOSTAT. THE SUPPLY FAN WILL BE ENERGIZED (AUTO MODE) AND STAGE COOLING CAPACITY TO MAINTAIN SPACE TEMPERATURE SETPOINT BASED ON FACTORY CONTROL SEQUENCES. THE SPACE COOLING TEMPERATURE SETPOINT SHALL BE ADJUSTABLE THRU THE PROGRAMMABLE THERMOSTAT AND WILL BE SET-UP TO MAINTAIN TEMPERATURES PER TABLE 2.
5. GAS HEATING:
THE RTU SHALL CYCLE GAS HEATING STAGES IN RESPONSE TO HEATING DEMAND FROM THE THERMOSTAT. ON A CALL FOR HEATING FROM THE ZONE SENSOR, THE SUPPLY FAN WILL BE ENERGIZED AND THE BURNER SHALL BE ENERGIZED TO MAINTAIN SPACE TEMPERATURE. THE SPACE HEATING TEMPERATURE SETPOINT SHALL BE ADJUSTABLE THRU THE PROGRAMMABLE THERMOSTAT AND WILL BE SET-UP TO MAINTAIN TEMPERATURES PER TABLE 2.
6. DEMAND CONTROL VENTILATION (BREAK ROOM RTUS ONLY):
THE SPACE MOUNTED CO2 SENSOR SHALL MONITOR THE SPACE AIR QUALITY. AS THE CO2 RISES ABOVE THE CO2 SETPOINT (700 PPM, ADJ) THE OUTSIDE AIR DAMPER INCREASES ABOVE MINIMUM SETPOINT TO A MAXIMUM POSITION SET DURING BALANCING. AS CO2 LEVELS DECREASE, THE DAMPER MODULATES CLOSED, ONCE THE CO2 LEVEL IS BELOW THE CO2 SETPOINT, THE OUTSIDE AIR DAMPER SHALL RETURN TO THE MINIMUM POSITION.
7. ECONOMIZER - ENTHALPY
THE FACTORY RTU CONTROLLER WILL INDEX THE UNIT INTO ECONOMIZER MODE IF THE OUTDOOR AIR DRY BULB IS BELOW THE SETPOINT. WHEN ECONOMIZER MODE IS ENABLED, THE RETURN AND OUTSIDE AIR DAMPERS WILL MODULATE BETWEEN MINIMUM POSITION AND FULL OPEN AS NECESSARY TO MAINTAIN DISCHARGE AIR TEMPERATURE. THE RTU START-UP TECHNICIAN SHALL SET THE UNIT ECONOMIZER.
8. UNOCCUPIED MODE:
DURING UNOCCUPIED MODE, THE UNIT SHALL CONTROL TO THE UNOCCUPIED MODE SETBACK TEMPERATURE. IF THE UNOCCUPIED SETPOINT IS EXCEEDED, THE RTU SHALL HEAT OR COOL UNTIL THE ZONE TEMPERATURE IS WITHIN THE UNOCCUPIED SETPOINTS, PLUS OR MINUS AN OFFSET OF 5°F (ADJ.).
9. BAROMETRIC RELIEF DAMPER:
THE BAROMETRIC RELIEF DAMPER CONSISTS OF A GRAVITY DAMPER THAT WILL OPEN TO RELIEVE EXCESS AIR AS BUILDING PRESSURE INCREASES.
10. OUTSIDE AIR DAMPER:
WHEN UNIT IS NOT IN ECONOMIZER MODE AND THE SUPPLY FAN IS IN OPERATION, THE OUTDOOR AIR DAMPER SHALL MODULATE TO THE MINIMUM PER THE UNIT SCHEDULE DURING THE OCCUPIED MODE. THE OUTDOOR AIR DAMPER SHALL BE CLOSED WHEN THE SUPPLY FAN IS OFF.
11. BALANCING WAREHOUSE RTU WITH 4-WAY DIFFUSER:
BALANCING CONTRACTOR TO BALANCE WAREHOUSE RTU UTILIZING RPM AND MANUFACTURER'S FAN CURVE. INDIVIDUAL GRILLE AIRFLOW IS NOT REQUIRED. THE BALANCING CONTRACTOR SHALL ASSIST IN SETTING OUTDOOR AIR DAMPER POSITIONS.
12. SMOKE DETECTION CONTROL:
UPON DETECTION OF SMOKE FROM THE RETURN DUCT SMOKE DETECTOR (BY OTHERS), THE FANS WILL CYCLE OFF AND OUTDOOR AIR DAMPERS SHALL CLOSE. ONCE THE DETECTORS ARE RESET, THE UNIT WILL RETURN TO NORMAL CONTROL. SMOKE DETECTOR INSTALLATION BY OTHERS, AS NECESSARY, IT'S THE RESPSIBILITY OF THE FIRE ALARM CONTRACTOR TO WIRE THE SMOKE DETECTOR TO THE EMERGENCY SHUT DOWN OF THE RTU CONTROLLER.

IT / DATA / MDF ROOM DUCTLESS COOLING-ONLY SPLIT SYSTEM, WALL-MOUNTED (FCU-3)
1. DESCRIPTION:
THE SYSTEM SHALL CONSIST OF A SINGLE-ZONE SPLIT SYSTEM WITH INDOOR FAN-COILHANDLING UNIT (FCU) AND COOLING-ONLY OUTDOOR CONDENSING UNIT (CU).
2. CONTROL:
THE SPACE TEMPERATURE SHALL BE CONTROLLED IN A STAND-ALONE MODE BY MANUFACTURER SUPPLIED THERMOSTAT MOUNTED IN ROOM
3. COOLING:
THE AHU SHALL OPERATE CONTINUOUSLY. THE CU SHALL CYCLE CAPACITY AS NEEDED TO MAINTAIN THE SPACE TEMPERATURE OF 74°F (ADJ.).

SHIPPING/RECEIVING (FCU-1/2)
1. DESCRIPTION:
THE SYSTEM SHALL CONSIST OF A SINGLE-ZONE SPLIT SYSTEM WITH INDOOR FAN-COILHANDLING UNIT (FCU) AND COOLING-ONLY OUTDOOR CONDENSING UNIT (CU).
2. CONTROL:
THE SPACE TEMPERATURE SHALL BE CONTROLLED IN A STAND-ALONE MODE BY MANUFACTURER SUPPLIED THERMOSTAT MOUNTED IN ROOM
3. COOLING:
THE AHU SHALL OPERATE CONTINUOUSLY. THE CU SHALL CYCLE CAPACITY AS NEEDED TO MAINTAIN THE SPACE TEMPERATURE OF 74°F (ADJ.).

EXHAUST FAN (EF-1/2/3)
1. CONTROL:
THE EXHAUST FAN SHALL OPERATE CONTINUOUSLY AS INDICATED ON THE EXHAUST FAN EQUIPMENT SCHEDULE.
2. CONTINUOUS:
THE EXHAUST FAN SHALL OPERATE CONTINUOUSLY (24/7). THE FAN MAY BE DE-ENERGIZED USING THE DISCONNECT SWITCH.

EXHAUST FAN (CEF-1) (TYP.)
1. CONTROL:
THE EXHAUST FAN SHALL BE INTERLOCKED WITH THE RESTROOM LIGHT SWITCH, AS INDICATED ON THE EXHAUST FAN EQUIPMENT SCHEDULE.
2. ROOM LIGHT SWITCH:
THE EXHAUST FAN SHALL BE INTERLOCKED WITH THE ROOM LIGHT CONTROL OR WALL SWITCH AND SHALL BE ENERGIZED ANY TIME THE LIGHTS ARE ON IN THE ROOM. (WIRING BY OTHERS)

AIR CURTAIN (AC-A)
1. DESCRIPTION:
EACH UNIT SHALL CONSIST OF A HEATED ELECTRIC AIR CURTAIN FOR ENVIRONMENTAL SEPARATION. UNIT SHALL BE PROVIDED WITH FACTORY-INSTALLED 24V TRANSFORMER, MAGNETIC DOOR LIMIT SWITCH, HEAT-OFF-FAN SWITCH, AND THERMOSTAT.
2. DOOR LIMIT CONTROL:
AIR CURTAIN SHALL ENERGIZE AS DOOR BEGINS TO OPEN AS INDICATED BY THE MAGNETIC DOOR LIMIT SWITCHES. UNIT SHALL DE-ENERGIZE WHEN THE DOOR HAS CLOSED.
3. HEAT-OFF-FAN CONTROL:
WHEN THE SWITCH IS IN THE OFF POSITION THE AIR CURTAIN IS INOPERABLE. IN THE HEAT POSITION, THE AIR CURTAIN WILL RUN WITH HEAT BASED ON THE LIMIT SWITCH OR THERMOSTAT. IN THE FAN POSITION, THE AIR CURTAIN WILL RUN WITHOUT HEAT BASED ON THE LIMIT SWITCH.
4. HEATING:
AIR CURTAINS HAVING SINGLE (ONE-STAGE) HEATING ELEMENTS, ARE CONTROLLED BY A SINGLE STAGE THERMOSTAT. WHEN THE AIR CURTAIN CONTROL CIRCUIT CLOSES, THE AIR CURTAIN FAN WILL RUN AND THROUGH INTERLOCKING, WILL ENABLE THE HEATER CIRCUIT ON A CALL FOR HEAT, THE THERMOSTAT WILL ENERGIZE THE HEATER CONTROL CONTACTOR, THE THERMOSTAT WILL THEN CYCLE THE HEATER AS NEEDED, AS LONG AS THE AIR CURTAIN CONTROL CIRCUIT IS CLOSED (FAN IS RUNNING). WHEN THE AIR CURTAIN CONTROL CIRCUIT OPENS, THE HEATER CIRCUIT IS DISABLED, THE HEATER WILL DE-ENERGIZE AND THE FAN WILL SHUT OFF.

MetroAir

LSCC BLDG. #1 – TI		
LEE'S SUMMIT, MO		
SCALE: AS NOTED	DATE: 9/6/22	DRAWN BY: M.D.K.
APPROVED BY: JDG	DWG # M4	of 5
PERMIT DWGS.		

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
12/07/2022

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
MATTHEW DAVID GRESSO
NUMBER PE-2016027003
9/6/2022
PROFESSIONAL ENGINEER

ISSUE DATES

PERMIT SET	04.21.22

210300

M2.1

ROOFTOP UNIT SCHEDULE (NATURAL GAS HEAT)

MARK	MANUFACTURER	MODEL	SERVICE	QUANTITY	NOMINAL TONNAGE	SUPPLY FAN CFM	SUPPLY FAN ESP (IN)	SUPPLY FAN MODE	SUPPLY FAN HP	COOLING COIL TH (MBH)	COOLING COIL SH (MBH)	GAS HEATING COIL INPUT (MBH)	GAS HEATING COIL OUTPUT (MBH)	GAS HEATING COIL STAGES	ELECTRIC HEATING INPUT (KW)	ELECTRIC HEATING STAGES	ELECTRICAL MCA	ELECTRICAL MOCP	ELECTRICAL V/PH	WEIGHT (LBS) W/ CURB	MIN. OUTSIDE AIR (CFM)	MAX. OUTSIDE AIR (CFM)	MIN. EER	NOTES
RTU-A	TRANE	YSD300G4RHC	WAREHOUSE	19	25	9,000	0.50	CV	7.5	300	234	400	320	2	---	---	56	70	460/3	3,200	800	800	10.0	A - H
RTU-1	TRANE	YSC060	MAIN OFFICE	1	5	1,975	0.75	CV	1.0	58	48	160	81	2	---	---	15	20	460/3	1,000	200	200	12.0	A - H
RTU-2	TRANE	YSC060	MAIN OFFICE	1	5	1,950	0.75	CV	1.0	58	48	160	81	2	---	---	15	20	460/3	1,000	175	175	12.0	A - H
RTU-3	TRANE	YSC060	MAIN OFFICE	1	5	2,000	0.75	CV	1.0	58	48	160	81	2	---	---	15	20	460/3	1,000	300	300	12.0	A - H
RTU-4	TRANE	YSC092F	MAIN OFFICE	1	7.5	2,750	0.75	CV	2.0	90	68	150	120	2	---	---	18	20	460/3	1,500	450	450	11.0	A - H
RTU-5	TRANE	YSC036	MAINTENANCE	1	3	1,000	0.50	CV	0.5	35	26	60	60	2	---	---	10	15	460/3	1,000	70	70	12.0	A - H

NOTES:

A. STARTERS FOR ALL MOTORS SHALL BE FURNISHED INTEGRAL WITH UNIT.
B. EQUIPMENT SIZED FOR 100 DEGREE F AMBIENT TEMPERATURE.
C. PROVIDE 2", 30% EFFICIENT PLEATED THROWAWAY AIR FILTERS.
D. PROVIDE MANUFACTURER'S STANDARD SRPING VIBRATION ISOLATION ROOF CURB WITH MINIMUM HEIGHT OF 14".
E. PROVIDE FACTORY MOUNTED DISCONNECT SWITCH, FIELD POWERED GFI OUTLET AND HAIL GUARDS.
F. PROVIDE WITH TRANE AIRFI CONTROLS TO INTEGRATE INTO BAS.
G. PROVIDE ENTHALPY ECONOMIZER WITH BAROMETRIC RELIEF DAMPER.
H. ELECTRICAL/FIRE ALARM CONTRACTOR TO FURNISH AND INSTALL SMOKE DETECTOR IN RETURN AIR DUCT.
J. PROVIDE WITH HOT-GAS REHEAT COIL, DEHUMIDIFICATION CONTROLS AND WALL MOUNTED CO2 SENSOR. CO2 SENSOR TO MODULATE OA FROM MINIMUM TO MAXIMUM AIRFLOWS.
K. PROVIDE WITH VARIABLE FREQUENCY DRIVE FOR SINGLE ZONE VAV OPERATION.
L. UNIT SHALL BE VVT. PROVIDE WITH BYPASS DAMPER AND REQUIRED CONTROLS FOR PROPER OPERATION.
M. PROVIDE WITH CO2 SENSOR MOUNTED AS SHOWN ON PLANS (WALL OR DUCT MOUNT) AND MODULATE VENTILATION FROM MINIMUM TO MAXIMUM SCHEDULED VALUES.

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.	REQUIRED OUTSIDE AIR (CFM)	TOTAL REQUIRED (CFM)	NOTES
RTU-A	WAREHOUSE	180,000	---	---	---	---	0.08	14,400	14,400	A
								REQUIRED VENTILATION	14,400 CFM	B

NOTES:
A. VALUES TAKEN FROM ASHRAE 62.1-2010 - VENTILATION FOR ACCEPTABLE INDOOR AIR QUALITY.
B. TOTAL VENTILATION FOR WAREHOUSE TO BE DIVIDED AMOUNG ALL RTU-A. REFER TO EQUIPMENT SCHEDULE FOR ACTUAL AMOUNT.

COOLER/FREEZER EQUIPMENT SCHEDULE

MARK	MANUFACTURER	MODEL	SERVICE	QUANTITY	TYPE	SUPPLY FAN(S) CFM	SUPPLY FAN(S) HP	SUPPLY FAN(S) QTY.	PIPING CONNECTIONS LIQUID	PIPING CONNECTIONS SUCTION	PIPING CONNECTIONS CONDENSATE	ELECTRICAL MCA	ELECTRICAL MOCP	ELECTRICAL V/PH	WEIGHT	HEIGHT W/ O RAILS	NOTES
CFU-1	HEATCRAFT/BOHN	BCH0075LDACD	(-) 10 F FREEZER	1	CONDENSING UNIT	---	7.5	---	7/8"	1-5/8"	---	38	40	460/3	1,000	40"	A - D
EVAP-1	HEATCRAFT/LARKIN	BEM0325MS4EMA		1	EVAPORATOR	7,100	1/4	3	1-1/8"	1-5/8"	3/4"	18	---	460/1	300	30"	A - B
CFU-2	HEATCRAFT/BOHN	BCH0075LDACD	(-) 10 F FREEZER	1	CONDENSING UNIT	---	7.5	---	7/8"	1-5/8"	---	38	40	460/3	1,000	40"	A - D
EVAP-2	HEATCRAFT/LARKIN	BEM0325MS4EMA		1	EVAPORATOR	7,100	1/4	3	1-1/8"	1-5/8"	3/4"	18	---	460/1	300	30"	A - B
CCU-1	HEATCRAFT/BOHN	BCD0400MDACD		1	CONDENSING UNIT	---	40	---	1-5/8" x (2)	2-1/8" x (2)	---	142	150	460/3	4,500	56"	A - D
EV-1A	HEATCRAFT/BOHN	BHA1400SA	(+) 38 F COOLER	1	EVAPORATOR	20,700	1	3	1-5/8"	2-1/8"	1-1/4"	7	---	460/3	800	51"	A - B, E
EV-1B	HEATCRAFT/BOHN	BHA1400SA		1	EVAPORATOR	20,700	1	3	1-5/8"	2-1/8"	1-1/4"	7	---	460/3	800	51"	A - B, E
CCU-2	HEATCRAFT/BOHN	BCD0400MDACD		1	CONDENSING UNIT	---	40	---	1-5/8" x (2)	2-1/8" x (2)	---	142	150	460/3	4,500	56"	A - D
EV-2A	HEATCRAFT/BOHN	BHA1400SA	(+) 38 F COOLER	1	EVAPORATOR	20,700	1	3	1-5/8"	2-1/8"	1-1/4"	7	---	460/3	800	51"	A - B, E
EV-2B	HEATCRAFT/BOHN	BHA1400SA		1	EVAPORATOR	20,700	1	3	1-5/8"	2-1/8"	1-1/4"	7	---	460/3	800	51"	A - B, E
CCU-3	HEATCRAFT/BOHN	BCD0400MDACD		1	CONDENSING UNIT	---	40	---	1-5/8" x (2)	2-1/8" x (2)	---	142	150	460/3	4,500	56"	A - D
EV-3A	HEATCRAFT/BOHN	BHA1400SA	(+) 38 F COOLER	1	EVAPORATOR	20,700	1	3	1-5/8"	2-1/8"	1-1/4"	7	---	460/3	800	51"	A - B, E
EV-3B	HEATCRAFT/BOHN	BHA1400SA		1	EVAPORATOR	20,700	1	3	1-5/8"	2-1/8"	1-1/4"	7	---	460/3	800	51"	A - B, E
CCU-4	HEATCRAFT/BOHN	BCD0400MDACD		1	CONDENSING UNIT	---	40	---	1-5/8" x (2)	2-1/8" x (2)	---	142	150	460/3	4,500	56"	A - D
EV-4A	HEATCRAFT/BOHN	BHA1400SA	(+) 38 F COOLER	1	EVAPORATOR	20,700	1	3	1-5/8"	2-1/8"	1-1/4"	7	---	460/3	800	51"	A - B, E
EV-4B	HEATCRAFT/BOHN	BHA1400SA		1	EVAPORATOR	20,700	1	3	1-5/8"	2-1/8"	1-1/4"	7	---	460/3	800	51"	A - B, E

NOTES:
A. PROVIDE LOW AMBIENT CONTROL AND R448A REFRIGERANT AND 5YR COMPRESSOR WARRANTY.
B. EQUIPMENT SIZED FOR 100 DEGREE F AMBIENT TEMPERATURE.
C. PROVIDE WITH HEATCRAFT VANTAGE AUTO-ROTATE THERMOSTAT CONTROLLER FOR REFRGERATION SYSTEM. PROVIDE WITH TEMPERATURE SENSORS FOR MOUNTING IN COOLER/FREEZER UNIT SHALL BE PROGRAMMED TO CALL OUT DURING TEMPERATURE ALARMS.
D. ADD 16" EQUIPMENT SUPPORT RAILS TO CALCULATE OVERALL EQUIPMENT HEIGHT ON ROOF.
E. PROVIDE WITH HIGH AIRFLOW COLLAR.

OUTSIDE AIR CALCULATIONS

UNIT SERVED	OCCUPANCY CLASSIFICATION	AREA (SQ. FT.)	PEOPLE PER 1,000	FIXED SEATING QUANTITY	QUANTITY OF PEOPLE	REQUIRED OUTSIDE AIR PER PERSON	REQUIRED OUTSIDE AIR PER SF	TOTAL REQUIRED AIRFLOW	NOTES
RTU-1	OFFICE	470	7	---	3	5	0.06	45	A
	CORRIDOR	105	---	---	---	---	0.06	6	A
	CONFERENCE	385	50	---	19	5	0.06	119	A
							REQUIRED VENTILATION	170 CFM	C
RTU-2	OFFICE	1,390	7	---	10	5	0.06	132	A
	CORRIDOR	340	---	---	---	---	0.06	20	A
							REQUIRED VENTILATION	152 CFM	C
RTU-3	CONFERENCE	1,280	50	43	64	5	0.06	292	A
							REQUIRED VENTILATION	292 CFM	C
RTU-4	BREAK ROOM	1,250	25	60	31	5	0.06	375	A
	RESTROOMS	950	---	---	---	---	0.06	57	A
							REQUIRED VENTILATION	432 CFM	C
FCU-1	OFFICE	105	7	---	1	5	0.06	10	A
	RESTROOMS	70	---	---	---	---	0.06	4	A
							REQUIRED VENTILATION	14 CFM	D
FCU-2	OFFICE	105	7	---	1	5	0.06	10	A
	RESTROOMS	70	---	---	---	---	0.06	4	A
							REQUIRED VENTILATION	14 CFM	D
FCU-4	OFFICE	600	7	---	4	5	0.06	57	A
							REQUIRED VENTILATION	57 CFM	C

NOTES:
A. VENTILATION RATES ARE TAKEN FROM ASHRAE 62.1-2010 - VENTILATION FOR ACCEPTABLE INDOOR AIR QUALITY.
B. VENTILATION IS BASED ON TOTAL QUANTITY OF PEOPLE TAKEN FROM NUMBER OF ACTUAL SEATING SHOWN ON ARCHITECTURAL FLOOR PLAN.
C. REFER TO RTU SCHEDULE FOR ACTUAL VENTILATION AIRFLOWS.
D. VENTILATION PROVIDED BY OPERABLE DOORS.

DUCTLESS SPLIT SYSTEM EQUIPMENT SCHEDULE

MARK	MANUFACTURER	MODEL	TYPE	SUPPLY FAN CFM	SUPPLY FAN ESP (IN)	COOLING COIL TH (MBH)	COOLING COIL SH (MBH)	ELECTRICAL MCA	ELECTRICAL MOCP	ELECTRICAL V/PH	VENTILATION (CFM)	WEIGHT (LBS)	NOTES
FCU-1	LENNOX	M22A012S4-2P	CEILING MOUNT CASSETTE	400	---	12	8	1	---	---	---	45	F, G
CU-1	LENNOX	MPB012S4S-1P	CONDENSING UNIT	---	---	---	---	12	15	208/1	---	150	A - E
FCU-2	LENNOX	M22A012S4-2P	CEILING MOUNT CASSETTE	400	---	12	8	1	---	---	---	45	F, G
CU-2	LENNOX	MPB012S4S-1P	CONDENSING UNIT	---	---	---	---	12	15	208/1	---	150	A - E
FCU-3	LENNOX	MWMA036S4	WALL MOUNT FAN-COIL	1,000	---	36	28	1	---	---	---	45	F
CU-3	LENNOX	MPB036S4S	CONDENSING UNIT	---	---	---	---	35	50	208/1	---	250	A - E

NOTES:
A. PROVIDE WITH WIRELESS TEMPERATURE CONTROLLER AND LOW-AMBIENT WIND BAFFLE KIT.
B. FAN-COIL TO BE POWERED FROM CONDENSING UNIT POWER CIRCUIT. REFER TO INSTALLATION INSTRUCTIONS.
C. INSTALL CONDENSING UNIT ON TREATED 4X4 WOOD BLOCKING.
D. PROVIDE WITH 50'-0" PRE-INSULATED LINESET AS REQUIRED.
E. ELECTRICAL CONTRACTOR TO PROVIDE ASSOCIATED POWER WIRING BETWEEN CU AND FCU.
F. PROVIDE WITH CONDENSATE PUMP AND DISCHARGE CONDENSATE PER PLANS AS REQUIRED.
G. VENTILATION PROVIDED BY OPERABLE DOORS.

GRILLE, REGISTER & DIFFUSER SCHEDULE

MARK	MANUFACTURER	MODEL	TYPE	SIZE	MOUNTING	FINISH	MATERIAL	NOTES
SD-1	PRICE	SPD	SQUARE PLAQUE	24" x 24"	LAY-IN	WHITE	STEEL	
SD-2	PRICE	SPD	SQUARE PLAQUE	24" x 24"	SURFACE	WHITE	STEEL	B
SD-3	PRICE	SPD	SQUARE PLAQUE	12" x 12"	LAY-IN	WHITE	STEEL	
SD-4	PRICE	SPD	SQUARE PLAQUE	12" x 12"	SURFACE	WHITE	STEEL	B
VAV-1	PRICE	VARITHERM	VAV	24" x 24"	LAY-IN	WHITE	STEEL	
LSD-1	PRICE	TBD	LINEAR SLOT	4'-0" X (4) 1" SLOT	LAY-IN	WHITE	STEEL	H
SG-1	PRICE	520DL	WALL MOUNT	AS NOTED	WALL/DUCT	WHITE	STEEL	A
SG-2	PRICE	SDGE	SPIRAL MOUNT	AS NOTED	DUCT	MILL	STEEL	A, C
RG-1	PRICE	PDDR	PERFORATED	24" x 24"	LAY-IN	WHITE	STEEL	
RG-2	PRICE	PDDR	PERFORATED	12" x 24"	LAY-IN	WHITE	STEEL	
RG-3	PRICE	530DL	WALL MOUNT	AS NOTED	WALL/DUCT	WHITE	STEEL	
EX-1	PRICE	APDDR	PERFORATED	24" x 24"	SURFACE	WHITE	ALUMINUM	A, B
EX-2	PRICE	APDDR	PERFORATED	24" x 24"	LAY-IN	WHITE	ALUMINUM	
EX-3	PRICE	APDDR	PERFORATED	12" x 12"	LAY-IN	WHITE	ALUMINUM	

NOTES:
A. PROVIDE WITH DAMPER OPERABLE FROM FACE OF DEVICE.
B. PROVIDE WITH SURFACE MOUNT FRAME KIT FOR MOUNTING IN HARD CEILING/WALL.
C. PROVIDE WITH OPPOSED BLADE DAMPER AND MILL FINISH.
D. PERFORATED SUPPLY AIR GRILLE TO BE INSTALLED WITHOUT DEFLECTORS.
E. PROVIDE WITH 2KW ELECTRIC HEAT, WALL MOUNTED WIRELESS THERMOSTAT.
F. PROVIDE WITH RETURN AIR LIGHT SHIELD.
G. PROVIDE WITH INSULATED BACKING
H. PROVIDE WITH FACTORY INSULATED SUPPLY PLENUM.

EXHAUST FAN SCHEDULE

MARK	MANUFACTURER	QUANTITY	MODEL	LOCATION/ MOUNTING	SERVICE	FAN CFM	FAN ESP (IN)	FAN RPM	FAN HP/WATTS	ELECTRICAL (V/PH)	WEIGHT (LBS)	NOTES
EF-A	GREENHECK	1	G-099	ROOF	RESTROOM EXHAUST	800	0.5	1435	1/4	120/1	100	A, B, E
EF-B	GREENHECK	3	GB-130	ROOF	BATTERY EXHAUST	2,000	0.5	1600	3/4	120/1	120	A, B, C, J
CEF-1	GREENHECK	2	SPA-190	CEILING	RESTROOM EXHAUST	150	0.25	800	50	120/1	25	A, E, H
CEF-2	GREENHECK	1	SPA-090	CEILING	RESTROOM EXHAUST	75	0.25	800	50	120/1	25	A, E, H

NOTES:
A. PROVIDE FACTORY MOUNTED DISCONNECT SWITCH.
B. PROVIDE WITH 14" INSULATED ROOF CURB, BACKDRAFT DAMPER AND INSECT SCREEN.
C. FAN TO RUN CONTINUOUSLY.
D. FURNISH WITH WALL MOUNTED LINE VOLTAGE THERMOSTAT. THERMOSTAT TO BE INSTALLED BY ELECTRICAL CONTRACTOR.
E. INTERLOCK EXHAUST FAN WITH LIGHTSWITCH.
F. FAN TO BE CONTROLLED BY WALL MOUNTED SWITCH.
G. PROVIDE WITH REQUIRED ACCESSORIES FOR GREASE EXHAUST. FAN TO BE CONTROLLED BY HOOD MOUNTED SWITCH.
H. PROVIDE WITH UNIT MOUNTED SPEED CONTROLLER, HANGING BRACKET, BACKDRAFT DAMPER AND INLET GUARD.
J. FAN TO BE EXPLOSION PROOF.

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
MATTHEW DAVID GRESS
NUMBER PE-2016027003
PROFESSIONAL ENGINEER
9/6/2022

ISSUE DATES

PERMIT SET	04.21.22

MetroAir

LSCC BLDG. #1 – TI

LEE'S SUMMIT, MO

SCALE: AS NOTED	DATE: 9/6/22	DRAWN BY: M.D.K.
APPROVED BY: JDG	DWG # M5	of 5
PERMIT DWGS.		

210300

M3.1

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 #4256, 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 VACCUM 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 "PW-G", "NSF-61-G" 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-301G OR EQUAL. LEAD-FREE NSF 61, ANSI B1.20.1.
            2. GLOBE VALVE: JOMAR TGG OR EQUAL.
            3. BALL VALVE: JOMAR JP100PxP OR EQUAL COMPACT LEAD FREE BRASS BALL VALVE. UL842, CSA 3371-12 & 3371-92, 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 "PW-G", "NSF-61-G" 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 8% 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 891. 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.
      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 891. 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 891. 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 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; VIEGA MEGAPRESS G FOR WATER AND GAS. CSA LC4, 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 SUFFICIENT SIZE TO PERMIT PIPE MOVEMENT DUE TO EXPANSION AND CONTRACTION AND TO ACCOMMODATE PIPE INSULATION.
      2) INTERIOR PARTITIONS: 16 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.
   K. COMPRESSED AIR PIPING
      1) PARKER TRANSAIR PIPING, EXTRUDED ALUMINUM PIPE, CONFORMS TO ASTM B241.
         a) PARKER TRANSAIR FITTINGS CONFORMING TO UL94HB
         b) PARKER TRANSAIR MOUNTING CLIPS, CONFORMING TO UL94V-2
      2) TYPE L HARD DRAWN COPPER TUBING, ASTM B-88.
         a) WROUGHT BRONZE SOLDERED FITTINGS.
7. WATER HEATERS
   A. COMMERCIAL, LIGHT-DUTY, STORAGE, ELECTRIC, DOMESTIC-WATER HEATERS:
      1. STANDARD: UL 174
      2. STORAGE-TANK CONSTRUCTION: STEEL, VERTICAL ARRANGEMENT.
         a. PRESSURE RATING: 150 PSIG.
         b. INTERIOR FINISH: COMPLY WITH NSF 61 AND NSF 372 BARRIER MATERIALS FOR POTABLE-WATER TANK LININGS, INCLUDING EXTENDING LINING MATERIAL INTO TAPPINGS.
      3. FACTORY-INSTALLED, STORAGE-TANK APPURTENANCES:
         a. ANODE ROD: REPLACEABLE MAGNESIUM.
         b. DIP TUBE: REQUIRED UNLESS COLD-WATER INLET IS NEAR BOTTOM OF TANK.
         c. DRAIN VALVE: CORROSION-RESISTANT METAL WITH HOSE-END CONNECTION.
         d. INSULATION: COMPLY WITH ASHRAE/IES 90.1
         e. JACKET: STEEL WITH ENAMELED FINISH OR HIGH-IMPACT COMPOSITE MATERIAL.
         f. HEAT-TRAP FITTINGS: INLET TYPE IN COLD-WATER INLET AND OUTLET TYPE IN HOT-WATER OUTLET.
         g. HEATING ELEMENTS: ELECTRIC, SCREW-IN IMMERSION TYPE.
         h. TEMPERATURE CONTROL: ADJUSTABLE THERMOSTAT.
         i. SAFETY CONTROL: HIGH-TEMPERATURE-LIMIT CUTOFF DEVICE OR SYSTEM.
         j. RELIEF VALVE: ASME RATED AND STAMPED FOR COMBINATION TEMPERATURE-AND-PRESSURE RELIEF VALVES. INCLUDE RELIEVING CAPACITY AT LEAST AS GREAT AS HEAT INPUT, AND INCLUDE PRESSURE SETTING LESS THAN WORKING-PRESSURE RATING OF DOMESTIC-WATER HEATER. SELECT RELIEF VALVE WITH SENSING ELEMENT THAT EXTENDS INTO STORAGE TANK.
   B. DOMESTIC-WATER EXPANSION TANKS:
      1. DESCRIPTION: STEEL, PRESSURE-RATED TANK CONSTRUCTED WITH WELDED JOINTS AND FACTORY-INSTALLED, BUTYL-RUBBER DIAPHRAGM. INCLUDE AIR PRECHARGE TO MINIMUM SYSTEM-OPERATING PRESSURE AT TANK.
      2. CONSTRUCTION:
         a. TAPPINGS: FACTORY-FABRICATED STEEL, WELDED TO TANK BEFORE TESTING AND LABELING. INCLUDE ASME B1.20.1 PIPE THREAD.
         b. INTERIOR FINISH: COMPLY WITH NSF 61 AND NSF 372 BARRIER MATERIALS FOR POTABLE-WATER TANK LININGS, INCLUDING EXTENDING FINISH INTO AND THROUGH TANK FITTINGS AND OUTLETS.
         c. AIR-CHARGING VALVE: FACTORY INSTALLED.
      3. CAPACITY AND CHARACTERISTICS:
         a. WORKING-PRESSURE RATING: 150 PSIG .
   C. FLOW-CONTROL, ELECTRIC, TANKLESS, DOMESTIC-WATER HEATERS:
      1. STANDARD: UL 499 FOR ELECTRIC, TANKLESS, (DOMESTIC-WATER-HEATER) HEATING APPLIANCE.
      2. CONSTRUCTION: COPPER PIPING OR TUBING COMPLYING WITH NSF 61 AND NSF 372 BARRIER MATERIALS FOR POTABLE WATER, WITHOUT STORAGE CAPACITY.
         a. JACKET: ALUMINUM OR STEEL WITH ENAMELED FINISH OR PLASTIC.
         b. PRESSURE RATING: 150 PSIG
         c. HEATING ELEMENT: RESISTANCE HEATING SYSTEM.
         d. TEMPERATURE CONTROL: FLOW-CONTROL FITTING.
         e. SAFETY CONTROL: HIGH-TEMPERATURE-LIMIT CUTOFF DEVICE OR SYSTEM.
      3. SUPPORT: BRACKET FOR WALL MOUNTING.
8. 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"Φ, & 1-1/2" FOR PIPING 1-1/2"Φ 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"Φ, & 1" FOR PIPING 1-1/2"Φ 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.

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[redacted]

SCANNELL PROPERTIES

[redacted]

8/31/2022

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

[redacted]

LEE'S SUMMIT LOGISTICS
BUILDING A LOT 1

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

[redacted]

PERMIT SET 08.31.22

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

210300

PLUMBING SPECIFICATIONS

P0.0

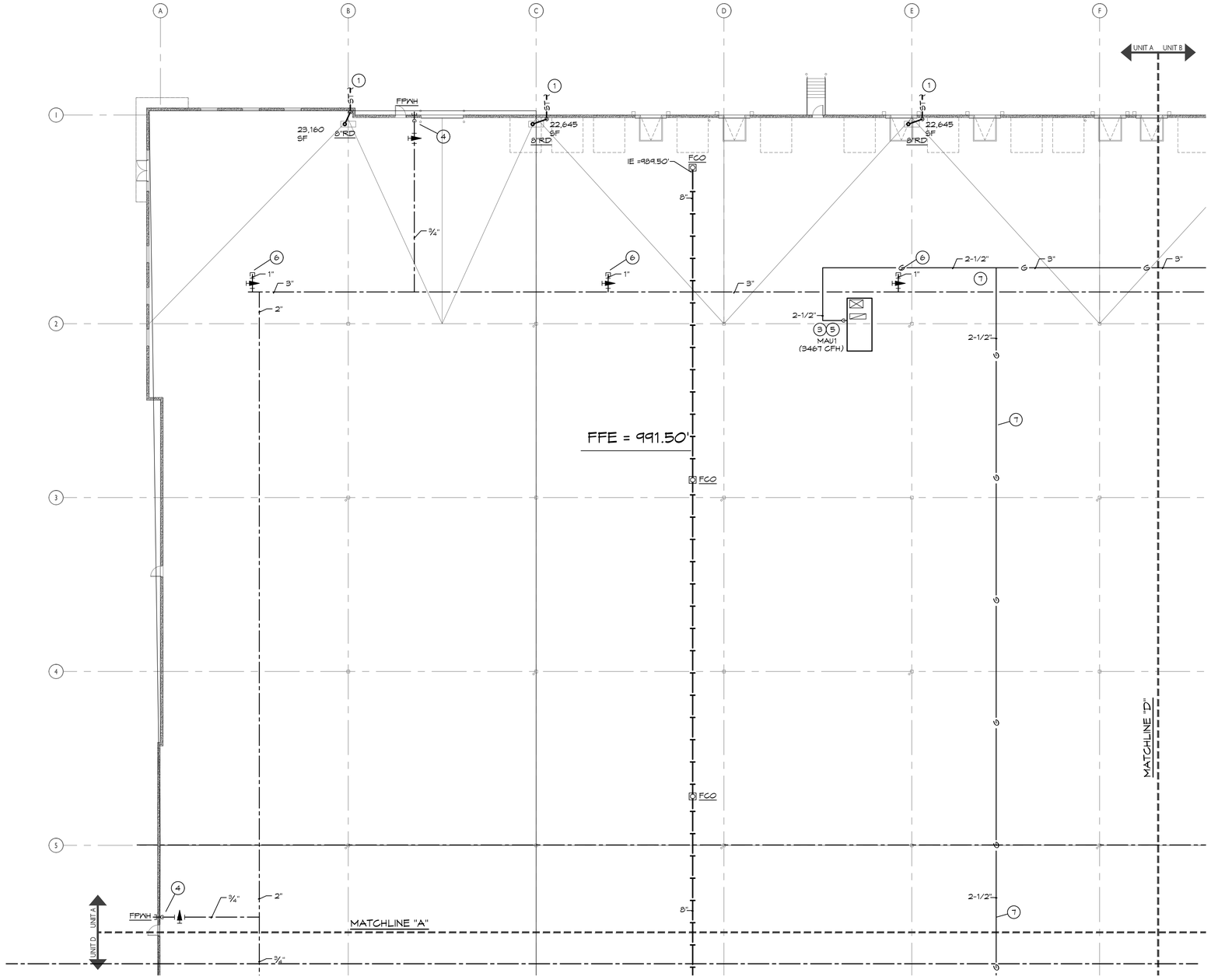
RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
12/27/2022

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
- SANITARY VENT PIPING ABOVE GRADE
- SANITARY VENT PIPING BELOW GRADE
- DOMESTIC COLD WATER PIPING
- 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

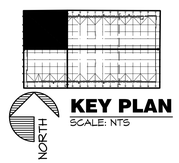


PLUMBING PLAN NOTES:

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.

PARTIAL PLUMBING FLOOR PLAN "UNIT A"

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



KEY PLAN
SCALE: NTS

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SCANNELL PROPERTIES

4/26/2022

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

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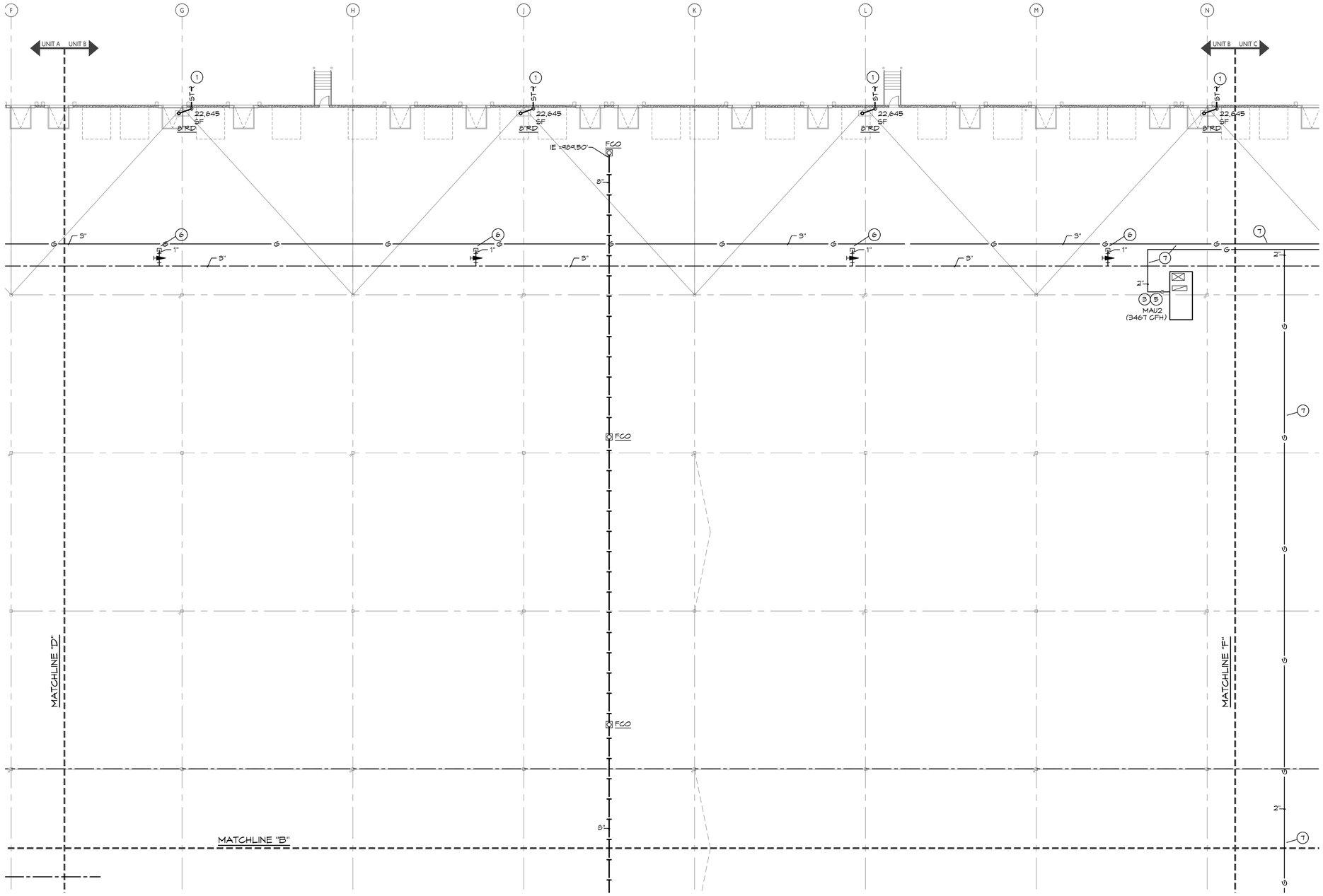
PLUMBING PLAN
AREA A

P100



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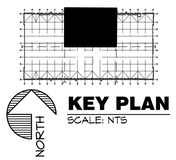
8. GAS PIPING ON ROOF. SUPPORT AS REQUIRED AND DETAILED.

NORTH

PARTIAL PLUMBING FLOOR PLAN "UNIT B"

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



NORTH

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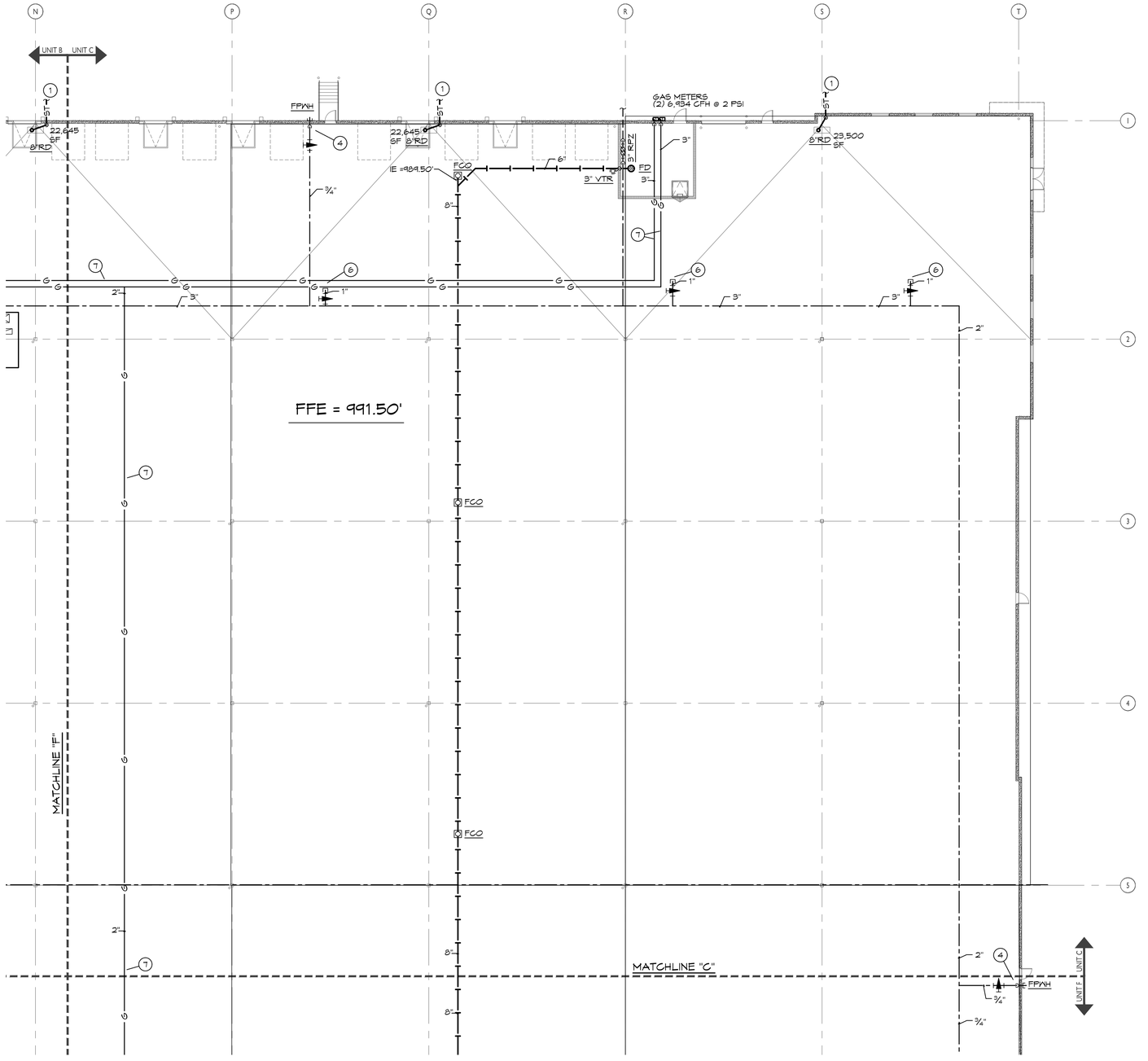
PLUMBING PLAN
AREA B

P101



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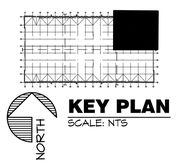
7. GAS PIPING BELOW ROOF SUPPORT AS REQUIRED.
8. GAS PIPING ON ROOF. SUPPORT AS REQUIRED AND DETAILED.

NORTH

PARTIAL PLUMBING FLOOR PLAN "UNIT C"

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



NORTH

KEY PLAN

SCALE: NTS

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BUILDING A LOT 1

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PLUMBING PLAN
AREA C

P102

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MISSOURI PE COA #2009003629

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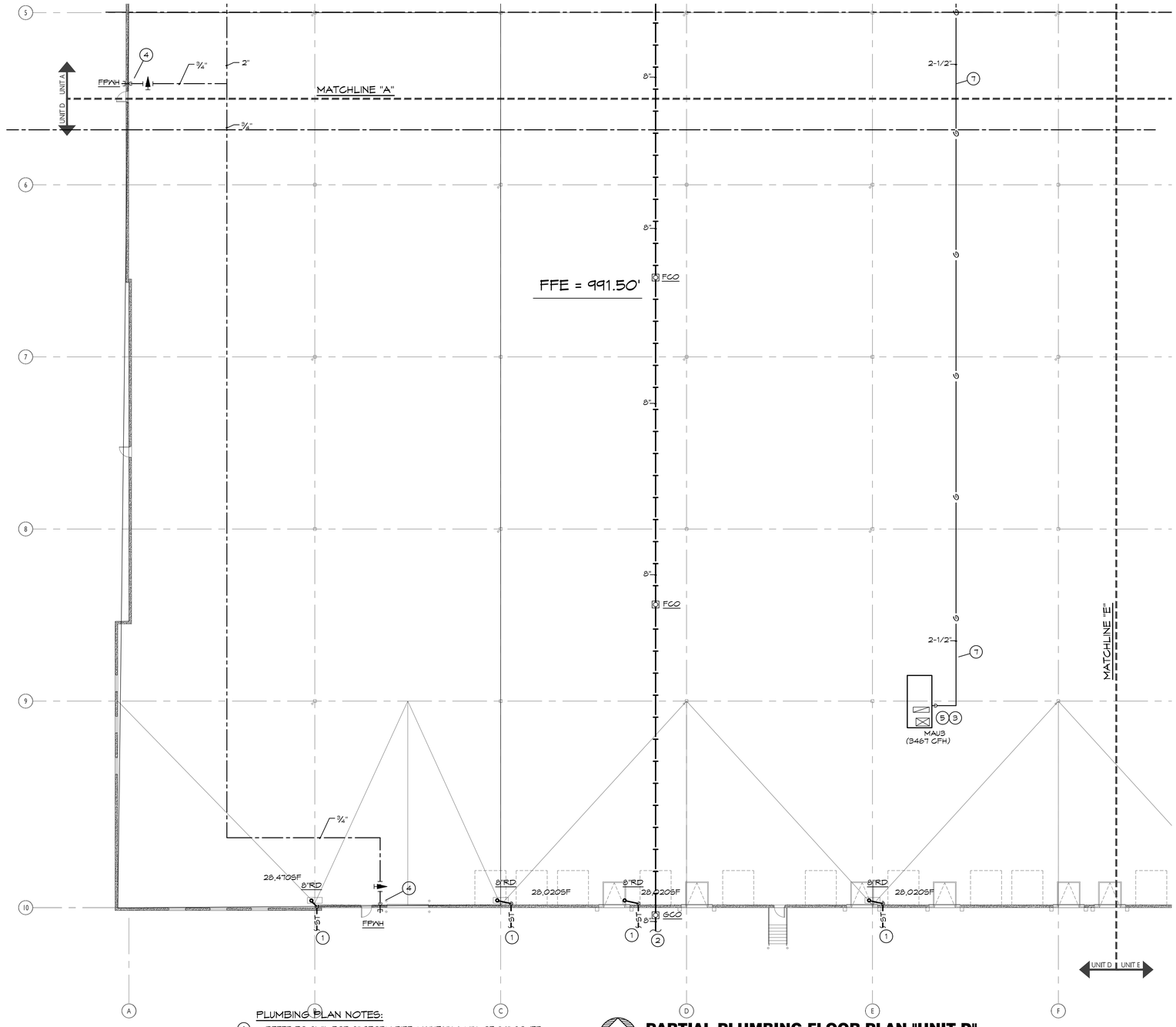

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5. CONNECT GAS PIPING TO EQUIPMENT AS DETAILED.
6. CAP 1" WATER PIPE WITH SHUT-OFF VALVE FOR FUTURE CONNECTION.
7. GAS PIPING BELOW ROOF SUPPORT AS REQUIRED.
8. GAS PIPING ON ROOF. SUPPORT AS REQUIRED AND DETAILED.

PARTIAL PLUMBING FLOOR PLAN "UNIT D"

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

NORTH

KEY PLAN
SCALE: NTS

NORTH

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NUMBER PE-2004026504
PROFESSIONAL ENGINEER

LEE'S SUMMIT LOGISTICS
BUILDING A LOT 1

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PERMIT SET	02.18.22

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PLUMBING PLAN
AREA D

P103

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