LEE'S SUMMIT LOGISTICS BUILDING C

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

11.02.22 **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

STRUCTURAL ENGINEER

WALLACE DESIGN

COLLECTIVE

1741 McGEE STREET

KANSAS CITY, MO 64108

O:816.421.8282



CURRAN ARCHITECTURE

5719 LAWTON LOOP E. DR. #212 INDIANAPOLIS, IN 46216 O: 317.288.0681 **CONTACT: SHAWN CURRAN**

CIVIL

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FRAMING DETAILS

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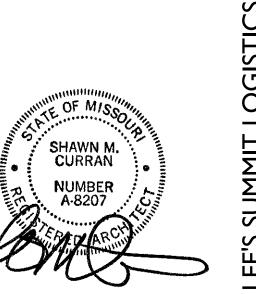
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CONTRACTOR

KADEAN CONSTRUCTION 1821 McGEE STREET KANSAS CITY, MO 64108 O:816.708.1199



LEE'S SUMMIT 220019

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 (I) 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. NOT SACRIFICE QUALITY, FUNCTIONALITY, APPEARANCE OR

SUBSTITUTIONS SHALL ONLY BE CONSIDERED IF THEY DO 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.

- 6" MTL STUDS @ 16" OC

WITH ONE LAYER OF 5/8"

GYPSUM WALLBOARD @

EACH SIDE. EXTEND STUDS

AND GWB. TO UNDERSIDE

OF ROOF DECK AND SEAL

BETWEEN GWB AND DECK

FOR FIRE RATED ASSEMBLY.

PROVIDE SOUND BATTS

INSULATION TO MATCH

WALL WIDTH AT WALL

TYPE W4A ONLY.

TYPE W4

(PROVIDE ONE HOUR RATED UNDERWRITERS LABORATORY

TYPE W4A

WALL ASSEMBLY U465 OR EQUAL)

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

ANY SUBMITTAL REQUIRED TO BE REVIEWED MORE THAN THE INITIAL REVIEW AND ONE (I) 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 2012 INTERNATIONAL BUILDING CODE WITH INDIANA AMENDMENTS.

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

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 $\frac{1}{360}$ 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.

UNDERSIDE OF

B.O. STRUCTURE

CEILING LINE

3 %" MTL STUDS @ 16" OC

WITH ONE LAYER OF 1/8"

GYPSUM WALLBOARD @

GYPSUM BOARD TO MIN

OF 4" ABOVE ADJACENT

PROVIDE SOUND BATTS

INSULATION TO MATCH

WALL WIDTH AT WALL

FIN FLOOR

 $Aa = At + (At \times If) + (At \times Is)$

Aa = FILL IN

TYPE WIA ONLY.

CEILING LINE.

EACH SIDE. EXTEND

SEE REFLECTED CEILING

PLAN FOR HEIGHT

ROOF DECK

ABBREVIATIONS

		, ,			
ACT	ACOUSTICAL CEILING TILE	FLR	FLOOR	PS	PROJECTION SCREEN
ADDL	ADDITIONAL	FR	FIRE RETARDANT	QT	QUARRY TILE
AFF	ABOVE FINISHED FLOOR	FT	FEET	R	RISER
ALUM	ALUMINUM	GA	GAUGE	RA	RETURN AIR
ANOD	ANODIZED	GB	GRAB BAR	RB	RESILIENT BASE
APP	APPROXIMATE	GC	GENERAL CONTRACTOR	RD	ROOF DRAIN
ARCH	ARCHITECT	GYP BD	GYPSUM BOARD	REF	REFERENCE
AWT	ACOUSTICAL WALL TREATMENT	HDWR	HARDWARE	REFR	REFRIGERATOR
BLDG	BUILDING	HGT	HEIGHT	REQD	REQUIRED
BLKG	BLOCKING	НМ	HOLLOW METAL	RO	ROUGH OPENING
B.O.	BOTTOM OF	HORIZ	HORIZONTAL	SA	SUPPLY AIR
ВОТ	BOTTOM	HP	HIGH POINT	SCHED	SCHEDULE
BRG	BEARING	HVAC	HEATING, VENTILATING, AIR CONDITIONING	SCMD	SOLID CORE METAL DOOR
CAB	CABINET	HW	HOT WATER	SCWD	SOLID CORE WOOD DOOR
CJ	CONTROL JOINT	INSUL	INSULATION	SEC	SECTION
CL	CENTER LINE	JAN	JANITOR	SF	SQUARE FOOT
CLR	CLEAR	JST	JOIST	SIM	SIMILAR
CMU	CONCRETE MASONRY UNIT	JT	JOINT	SPECS	SPECIFICATIONS
CONST	CONSTRUCTION	KD	KNOCKDOWN	SQ	SQUARE
COL	COLUMN	KIT	KITCHEN	SS	STAINLESS STEEL
CONC	CONCRETE	LAM	LAMINATE	STD	STANDARD
CONT	CONTINUOUS	LAV	LAVATORY	STL	STEEL
CPT	CARPET	LLH	LONG LEG HORIZONTAL	STOR	STORAGE
CT	CERAMIC TILE	LLV	LONG LEG YIONIZONTAL LONG LEG VERTICAL	STRUCT	STRUCTURAL
CW	COLD WATER	MAS	MASONRY	SUSP	SUSPENDED
DET, DTL	DETAIL	MAT	MATERIAL	TB	TACK BOARD
DE1, D1E	DRINKING FOUNTAIN	MAX	MAXIMUM	TEL	TELEPHONE
	DIAMETER	MB	MARKER BOARD	TLT	TOILET
DIA					TOP OF
DIM DWG(S)	DIMENSION DRAWING(S)	MECH	MECHANICAL MEZZANIAIE	T.O.	
		MEZZ	MEZZANINE	TRTD	TREATED
EA	EACH	MFR	MANUFACTURER	TVD	TELEVISION
EC	EXPOSED CEILING	MIN	MINIMUM	TYP	TYPICAL
EIFS	EXTERIOR INSULATION FINISH SYSTEM	MO	MASONRY OPENING	UNO	UNLESS NOTED OTHERWISE
EJ	EXPANSION JOINT	MTL	METAL NOT IN CONTRACT	UR	URINAL
EL	ELEVATION	NIC	NOT IN CONTRACT	VCT	VINYL COMPOSITION TILE
ENG	ENGINEER	NR	NOT RATED	VERT	VERTICAL
EQ	EQUAL	OC OC	ON CENTER	VIF	VERIFY IN FIELD
EQUIP	EQUIPMENT	OD	OUTSIDE DIAMETER	VT	VINYL TILE
EXIST	EXISTING	OFD	OVERFLOW DRAIN	W/	WITH
EXP	EXPANSION	OH	OPPOSITE HAND	W/O	WITHOUT
EXT	EXTERIOR	OPNG	OPENING	WB	WOOD BASE
FD	FLOOR DRAIN	OPP	OPPOSITE OF THE PROPERTY OF TH	WC	WATER CLOSET
FE	FIRE EXTINGUISHER	OTO	OUT TO OUT	WD	WOOD
FEC	FIRE EXTINGUISHER CABINET	PLAS LAM	PLASTIC LAMINATE	WH	WATER HEATER
FIN	FINISH	PLWD	PLYWOOD	WP	WORKING POINT

CODE ANALVOIC

	DDE ANA	4L 3 3	
APPLICABLE CODES		ACTUAL BUILDING HEIGHT AND AREA	
BUILDING CODE		BUILDING AREA:	253,289 S
2018 INTERNATIONAL BUILDING CODE		BUILDING HEIGHT (FEET / # FLOORS):	42' / I FLF
PLUMBING CODE		TABULAR OCCUPANT LOAD (1004.1.2)	
2017 INTERNATIONAL PLUMBING CODE		OCCUPANT LOAD FACTOR:	I / 50
		SQUARE FOOTAGE / OCCUPANT LOAD FACTOR:	253289 / 50
ELECTRICAL CODE		TOTAL OCCUPANTS:	50
2017 NATIONAL ELECTRICAL CODE			
FIRE CODE		ACTUAL OCCUPANT LOAD (1004.1.2)	0 (SHELL
2018 INTERNATIONAL FIRE CODE			
2010 HATERIAA HONAL TIKE GODE		FIRE RESISTIVE REQUIREMENTS (601 AND 602)	
MECHANICAL CODE		CONSTRUCTION TYPE:	II-I
2014 INTERNATIONAL MECHANICAL CODE		STRUCTURAL FRAME:	NF
		EXTERIOR BEARING WALLS:	N
FUEL GAS CODE		INTERIOR BEARING WALLS:	N
2018 FUEL GAS CODE		EXTERIOR NON-BEARING WALLS: INTERIOR NON-BEARING WALLS	N N
		FLOOR CONSTRUCTION:	N
HANDICAPPED ACCESSIBILITY CODE		ROOF CONSTRUCTION:	N
2009 ANSI A117.1		SHAFTS:	N/
ADA ACCESSIBILITY GUIDELINES		317413.	1 4//
OCCUPANCY (OVERALL BUILDING)		FIRE RESISTANCE RATED CONSTRUCTION (704, 601, 60	2)
CLASSIFICATION (302.1):	S-I	RATED EXTERIOR WALLS:	N/A
CE (3011 10/111011 (302.1)).	3-1	FIRE SEPARATION DISTANCE	60
OCCUPANCY (TENANT SPACE)		UNPROTECTED OPENING AREA:	N/A
CLASSIFICATION (302.1):	S-I	INTERIOR WALL AND CEILING FINISH REQUIREMENTS	(002)
ACCESSORY USES (508.2.1):	В	SEE FINISH SCHEDULE FOR MATERIALS	(803)
NON-SEPARATED USES (508.3.2):	N/A	ALL MATERIALS ARE CLASS A RATED	
SEPARATED USES (508.3.3):	N/A	ALL I'IA I ENIALS ARE CLASS A RATED	
02// 4.3 (13// (FIRE PROTECTION SYSTEMS	
AUTOMATIC SPRINKLER SYSTEM		STANDPIPE SYSTEM (905):	YE
SPRINKLER SYSTEM REQUIRED (903):	YES	PORTABLE FIRE EXTINGUISHERS (906.1):	SEE PLAI
SPRINKLER SYSTEM PROVIDED:	YES	FIRE ALARM AND DETECTION SYSTEMS (907):	YE
		SMOKE CONTROL SYSTEMS (909):	N//
ALLOWABLE BUILDING HEIGHT		SMOKE AND HEAT VENTS (910):	N//
TABULAR HEIGHT (503):	2 STORY		1 4//
ALLOWABLE BUILDING AREA		EGRESS	
TABULAR AREA (503):	17,500 SF	MINIMUM WIDTH FACTOR (1005.1):	0.20
TABOLAR AREA (303).	17,300 3F	REQUIRED MINIMUM WIDTH FROM SPACE (1005.1):	101.4
BUILDING AREA INCREASE		MINIMUM NUMBER OF EXITS (1015):	
INCREASE FOR SPRINKLERED BUILDING (506.3):	300%	ACTUAL NUMBER OF EXITS:	2
UNLIMITED AREA (507):	300% UNLIMITED	ACTUAL WIDTH OF EXITS:	864
FRONTAGE INCREASE (506.2):		ALLOWABLE TRAVEL DISTANCE (1016.2):	400
, ,	N/A	CORRIDOR CONSTRUCTION (1018.1):	N/I
If = $(F/P25) \times W / 30$	LINILIMITED	MINIMUM CORRIDOR WIDTH (1018.2):	44
TOTAL ALLOWABLE AREA WITH INCREASES: $Aa = At + (At \times If) + (At \times Is)$	UNLIMITED	MAXIMUM DEAD END CORRIDOR (1018.4):	50
$\Delta A = \Delta C + (\Delta C \times II) + (\Delta C \times IS)$			

SYMBOLS

(NOT ALL MAY APPLY)

KEYED NOTE



WINDOW OR GLAZED OPENING TAG IF WINDOW - W# IF STOREFRONT - SF# IF CURTAINWALL - CW#







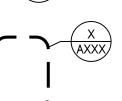




ELEVATION TAG - INTERIOR OR EXTERIOR



SECTION CUT AT AREAS SHOWN SMALL SCALE



ELEVATION TARGET. FINISHED FLOOR = 0'-0"



REVISION

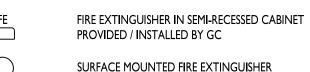
PLAN OR TRUE NORTH

ENLARGED PLAN

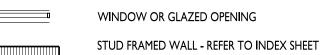


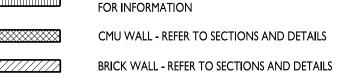
BATT INSULATION - WIDTH OF FRAMING UNO

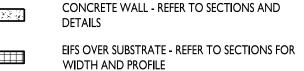
PROVIDED / INSTALLED BY GC





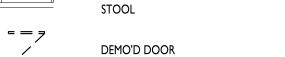


















F :: 317.288.0753





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PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS **BUILDING C LOT 3**

> X CORNER OF **NE TUDOR RD & MAIN ST** LEE'S SUMMIT, MO 64086

ISSUE DATES PERMIT SET 09.16.22 PERMIT COMMENTS 11.01.22

220019

SCOPE NOTES & WALL TYPES

WALL TYPE GENERAL NOTES

6" MTL STUDS @ 16" OC

WITH ONE LAYER OF 1/8"

EACH SIDE. EXTEND

CEILING LINE.

GYPSUM WALLBOARD @

GYPSUM BOARD TO MIN

OF 4" ABOVE ADJACENT

PROVIDE SOUND BATTS

INSULATION TO MATCH

WALL WIDTH AT WALL

TYPE W2A ONLY.

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.

6" MTL STUDS @ 16" OC

WITH ONE LAYER OF 5/8"

GYPSUM WALLBOARD @

EACH SIDE. EXTEND STUDS

TO UNDERSIDE OF ROOF

DECK AND GWB TO MIN

OF 4" ABOVE ADJACENT

PROVIDE SOUND BATTS

INSULATION TO MATCH

WALL WIDTH AT WALL

TYPE W3A ONLY.

TYPE W3

TYPE W3A

CEILING LINE.

NOT TO SCALE

TYPE W2

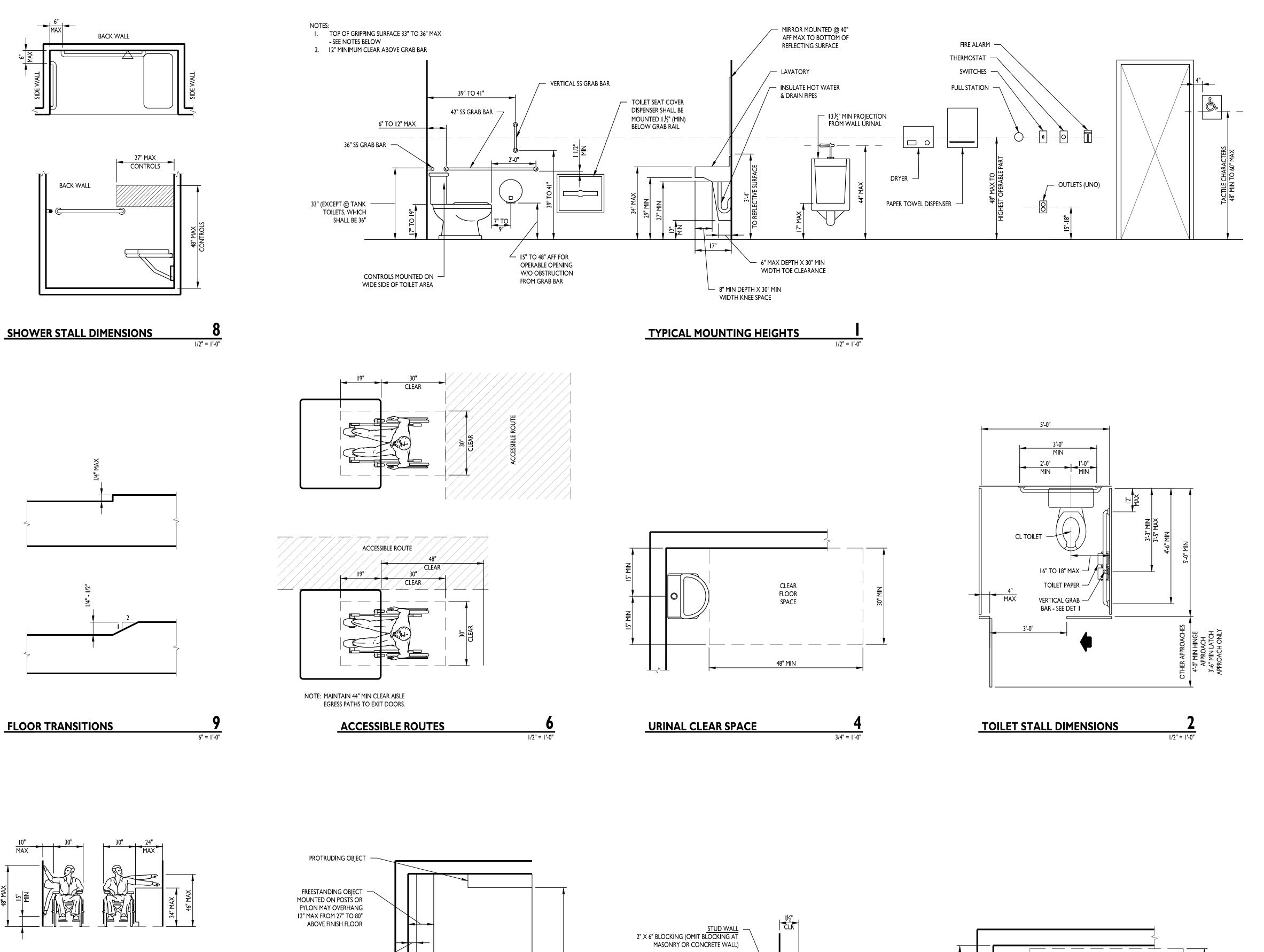
TYPE W2A

- PROVIDE DEEP LEG DEFLECTION TRACK AT TOP OF ALL METAL STUD WALLS WHERE STUDS EXTEND TO UNDERSIDE OF ROOF DECK OR STRUCTURE
- USE MOLD AND MILDEW RESISTANT GYPSUM WALLBOARD ON ALL PLUMBING WALLS. USE 5/8" CEMENT BOARD INSTEAD OF GYP BOARD BEHIND EXCEEDING 10'-0" PER 718.2.2 IBC 2012 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.

TYPE WI

TYPE WIA

- REFER TO ROOM FINISH SCHEDULE FOR ALL FINISH SELECTIONS; CEILING TYPES AND HEIGHTS; AND TYPES, SIZES AND LOCATIONS ETC.
- ALL STUD WALLS CREATING A CONCEALED WALL SPACE TO HAVE FIREBLOCKING AT INTERVALS NOT



2 -¼" X 3" EXPANSION ANCHORS — AT MASONRY OR CONCRETE WALL.

GRAB BAR DIMENSIONS

2 - #10 X 2" SCREWS AT WOOD OR STEEL STUD WALL - TYPICAL.

OBJECT PROJECTION FROM —

36" MIN CLEAR

ACCESSIBLE ROUTE

WALL BETWEEN 27" TO 80" ABOVE FINISH FLOOR SHALL

PROTRUDE NO MORE THAN 4"

OBJECT PROJECTION FROM WALL -LESS THAN 27" ABOVE FINISH FLOOR

MAY PROTRUDE ANY AMOUNT

FLOOR SHALL BE SLIP-RESISTANT -SURFACE AND LEVEL WITH MAX

REACH RANGES

 $rac{1}{4}$ " Change in Level

VERTICAL CLEARANCES

GRAB BAR SHALL BE I 1/4" TO 2"

CLEAR

FLOOR SPACE

SINK CLEAR SPACE

MAX OUTSIDE DIA TYPICAL

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.



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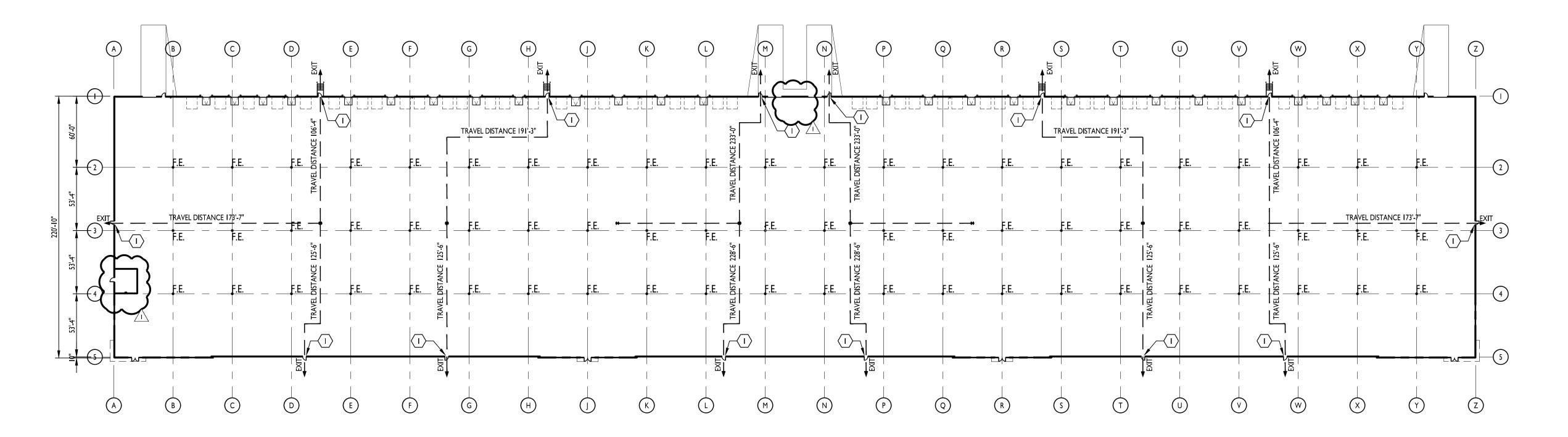
PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING C LOT 3

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

ISSUE DATES	
PERMIT SET	09.16.22
220019	
TYPICAL ACCESSIBIL DETAILS	LITY

A002



LIFE SAFETY PLAN

KEYED NOTES

- EXIT, EXIT SIGN, AND EMERGENCY LIGHTING ABOVE DOOR INTERIOR WITH BATTERY BACKUP. EXTERIOR EGRESS LIGHTING ABOVE DOOR TIED TO BATTERY BACK UP.
- 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 AND FIRE PROTECTION PLANS FOR FIRE DEPT. LEAD IN LOCATION.
- IN LOCATION.

 4. PROVIDE BUILDING ADDRESS SIGNAGE @ THIS LOCATION.
- 5. THIS DOOR LABELED 'PUMP ROOM'.



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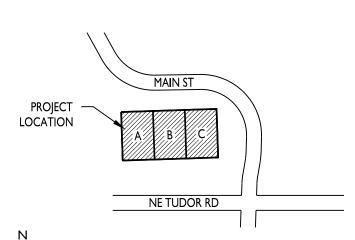
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PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING C LOT 3

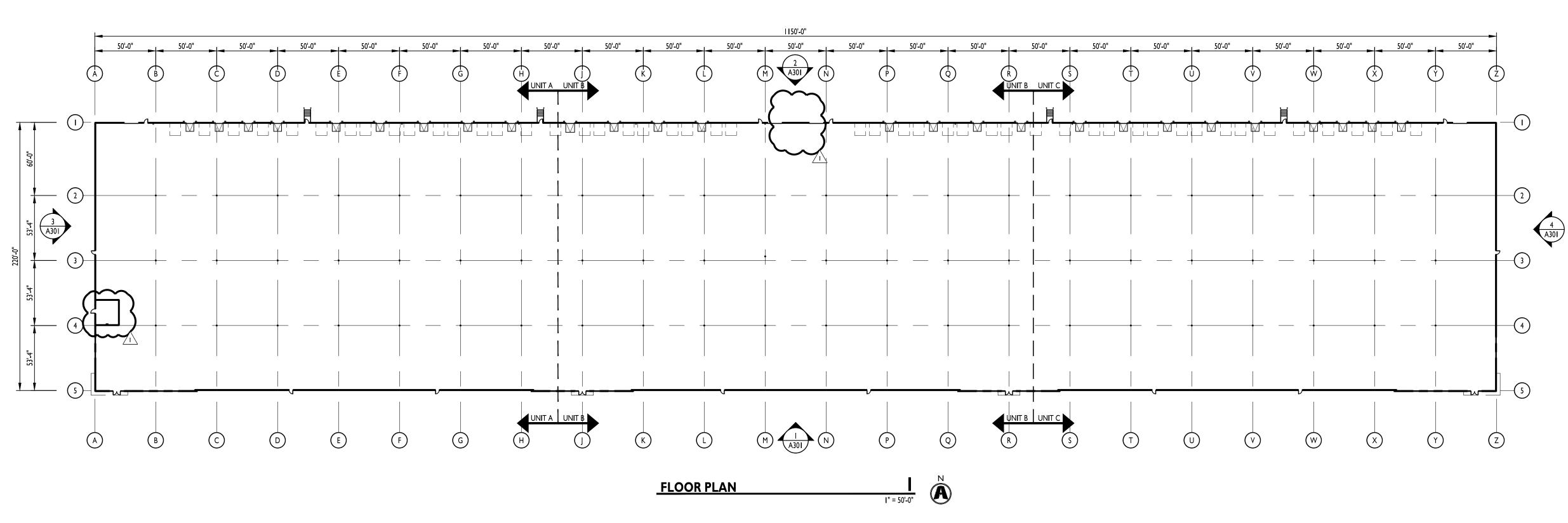
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> > **ISSUE DATES**



	PERMIT SET	09.16
\triangle	PUMP ROOM REVISIONS	07.25
	220010	
	220019	
_	FLOOR PLA	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.
- PROVIDE APPROVED FIRE RATED STOPPING MATERIALS IN ANY OPENINGS IN FIRE RATED ASSEMBLIES.
- D. REFER TO DOOR AND WINDOW SCHEDULES FOR ALL MATERIALS, FINISHES, AND HARDWARE INFORMATION.
- E. REFER TO EXTERIOR ELEVATIONS FOR ALL BRICK, MASONRY, AND OTHER EXPANSION JOINT LOCATIONS.
- F. PRIOR TO ORDERING ANY PRODUCTS, CONTRACTOR SHALL SUBMIT SAMPLES TO THE ARCHITECT OF ALL FINISH MATERIALS TO BE USED ON THE PROJECT. THE CONTRACTOR SHALL BEAR SOLE RESPONSIBILITY FOR ANY MATERIALS ORDERED INCORRECTLY WHEN THAT MATERIAL WAS NOT REVIEWED BY THE ARCHITECT.
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- H. ALL DOORS, UNLESS OTHERWISE NOTED, TO HAVE HINGE SIDE SET 4" FROM CORNER SHOWN TO OUTSIDE OF FRAME.
- I. UNLESS SPECIFIED ELSEWHERE, ALL INTERIOR SLABS AND SLAB INFILLS TO BE FF-50/FL-35 OVERALL AND FF-35/FL-25 LOCAL.
- J. ALL EXIT DOORS TO HAVE TACTILE EXIT SIGNAGE PER 703.4 OF THE ANSI 117.1 2009



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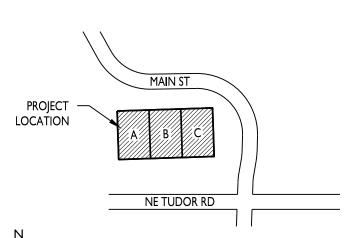
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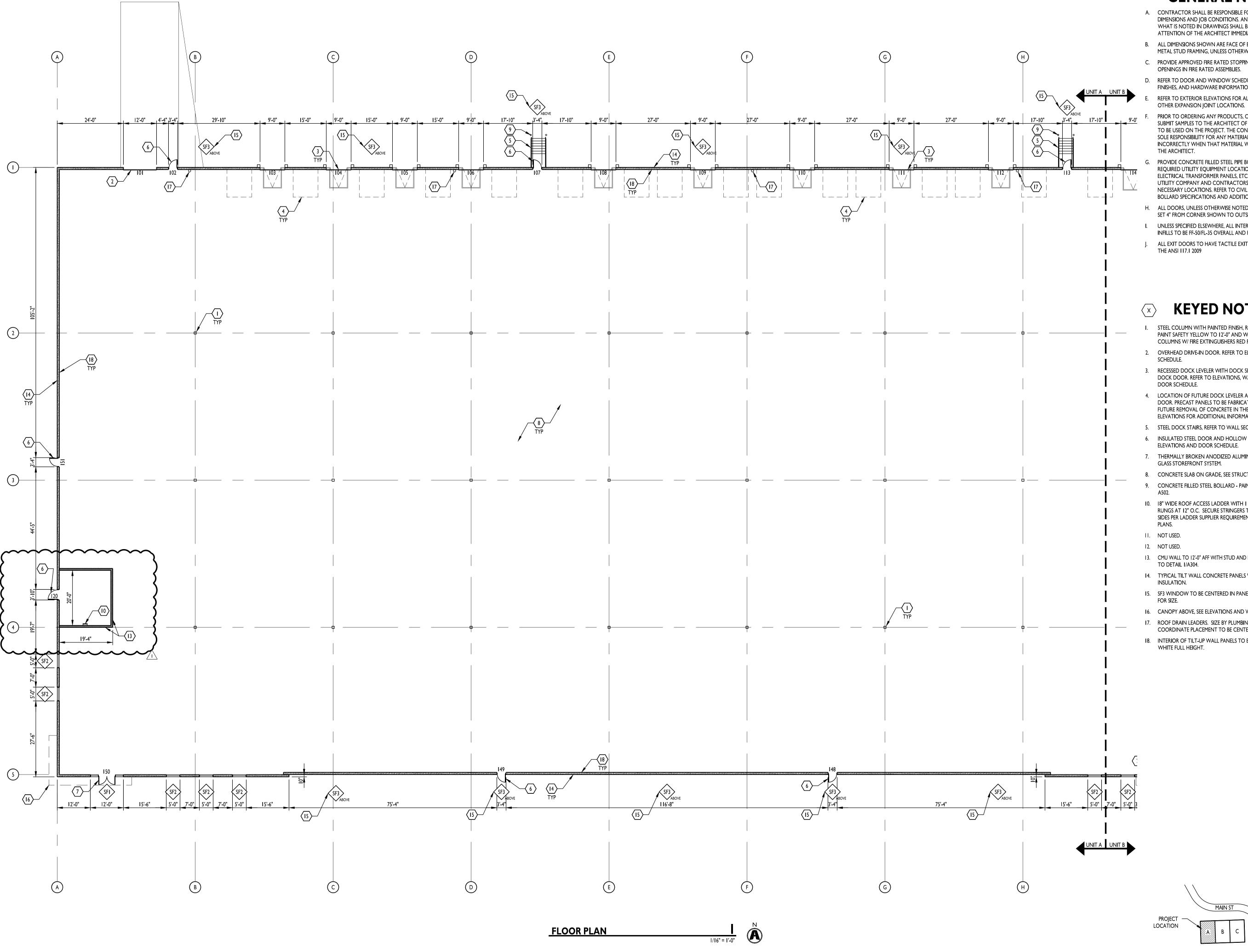
LEE'S SUMMIT LOGISTICS BUILDING C LOT 3

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



KEY PLAN

09.16.22
07.25.22
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- 2. OVERHEAD DRIVE-IN DOOR. REFER TO ELEVATIONS AND DOOR SCHEDULE.
- 3. RECESSED DOCK LEVELER WITH DOCK SEALS AND OVERHEAD DOCK DOOR. REFER TO ELEVATIONS, WALL SECTIONS, AND DOOR SCHEDULE.
- 4. LOCATION OF FUTURE DOCK LEVELER AND OVERHEAD DOCK DOOR. PRECAST PANELS TO BE FABRICATED TO ALLOW FOR FUTURE REMOVAL OF CONCRETE IN THESE LOCATIONS. REFER TO ELEVATIONS FOR ADDITIONAL INFORMATION.
- 5. STEEL DOCK STAIRS, REFER TO WALL SECTIONS AND DETAILS.
- 6. INSULATED STEEL DOOR AND HOLLOW METAL FRAME. SEE ELEVATIONS AND DOOR SCHEDULE.
- 7. THERMALLY BROKEN ANODIZED ALUMINUM AND INSULATED GLASS STOREFRONT SYSTEM.
- 8. CONCRETE SLAB ON GRADE, SEE STRUCTURAL.
- CONCRETE FILLED STEEL BOLLARD PAINTED. SEE DETAILS ON
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- II. NOT USED.
- NOT USED.
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- 14. TYPICAL TILT WALL CONCRETE PANELS WITH INTERIOR INSULATION.
- 15. SF3 WINDOW TO BE CENTERED IN PANEL, SEE WINDOW DETAILS FOR SIZE.
- 16. CANOPY ABOVE, SEE ELEVATIONS AND WALL SECTIONS.
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- 18. INTERIOR OF TILT-UP WALL PANELS TO BE PAINTED SEMI GLOSS

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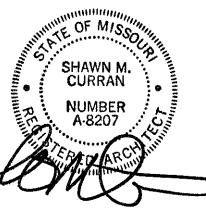
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INDIANAPOLIS, IN 46216

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PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING C LOT 3

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

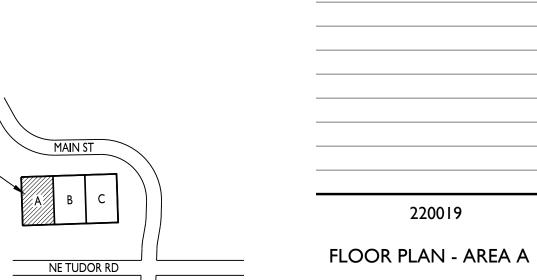
> > **ISSUE DATES**

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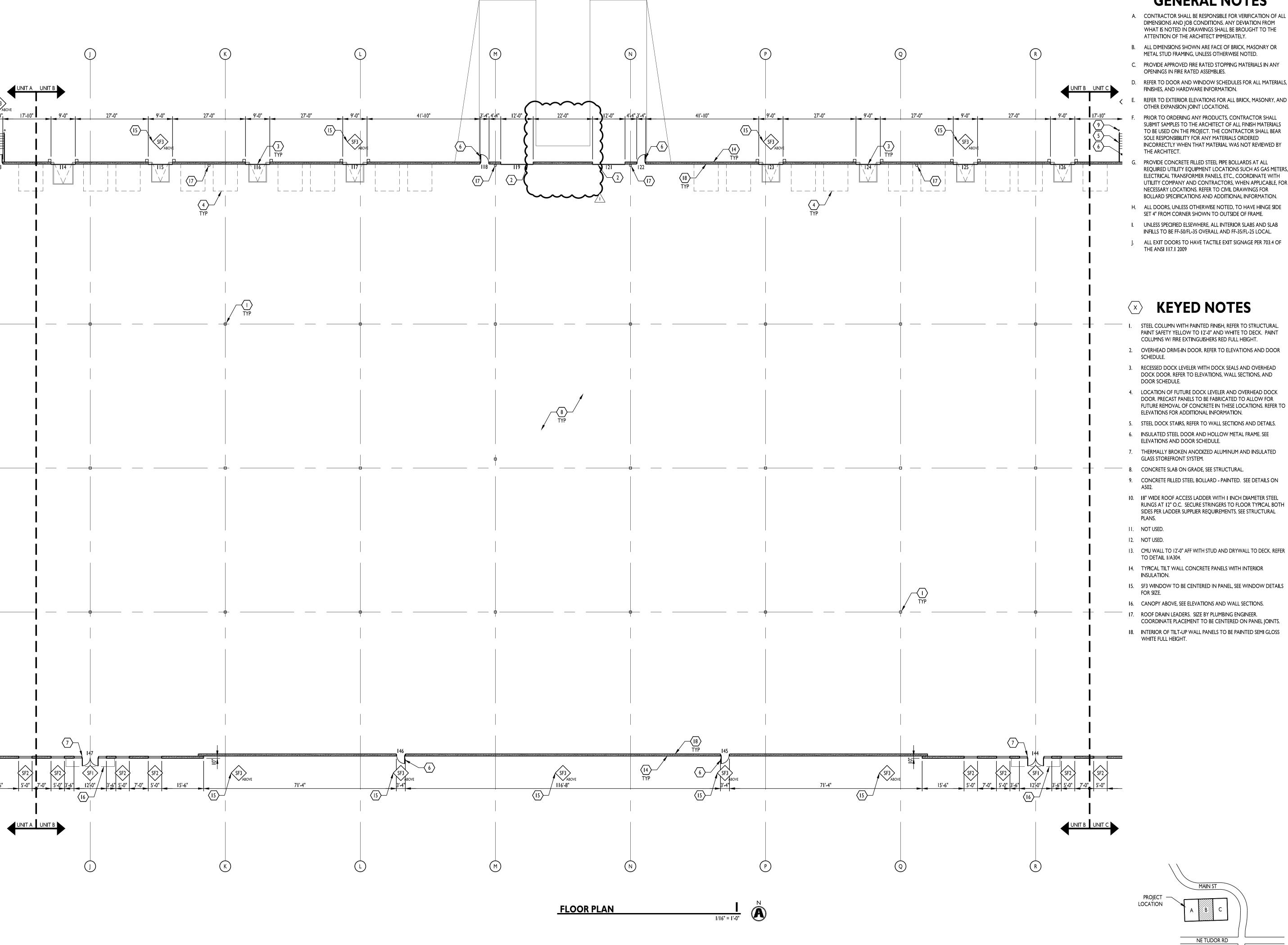
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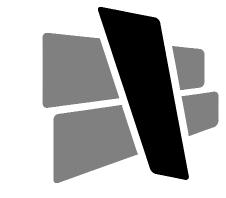




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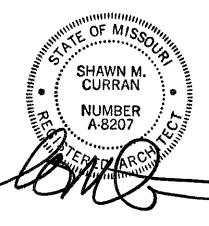
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- 18. INTERIOR OF TILT-UP WALL PANELS TO BE PAINTED SEMI GLOSS



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PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING C LOT 3

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

> > **ISSUE DATES**

09.16.22

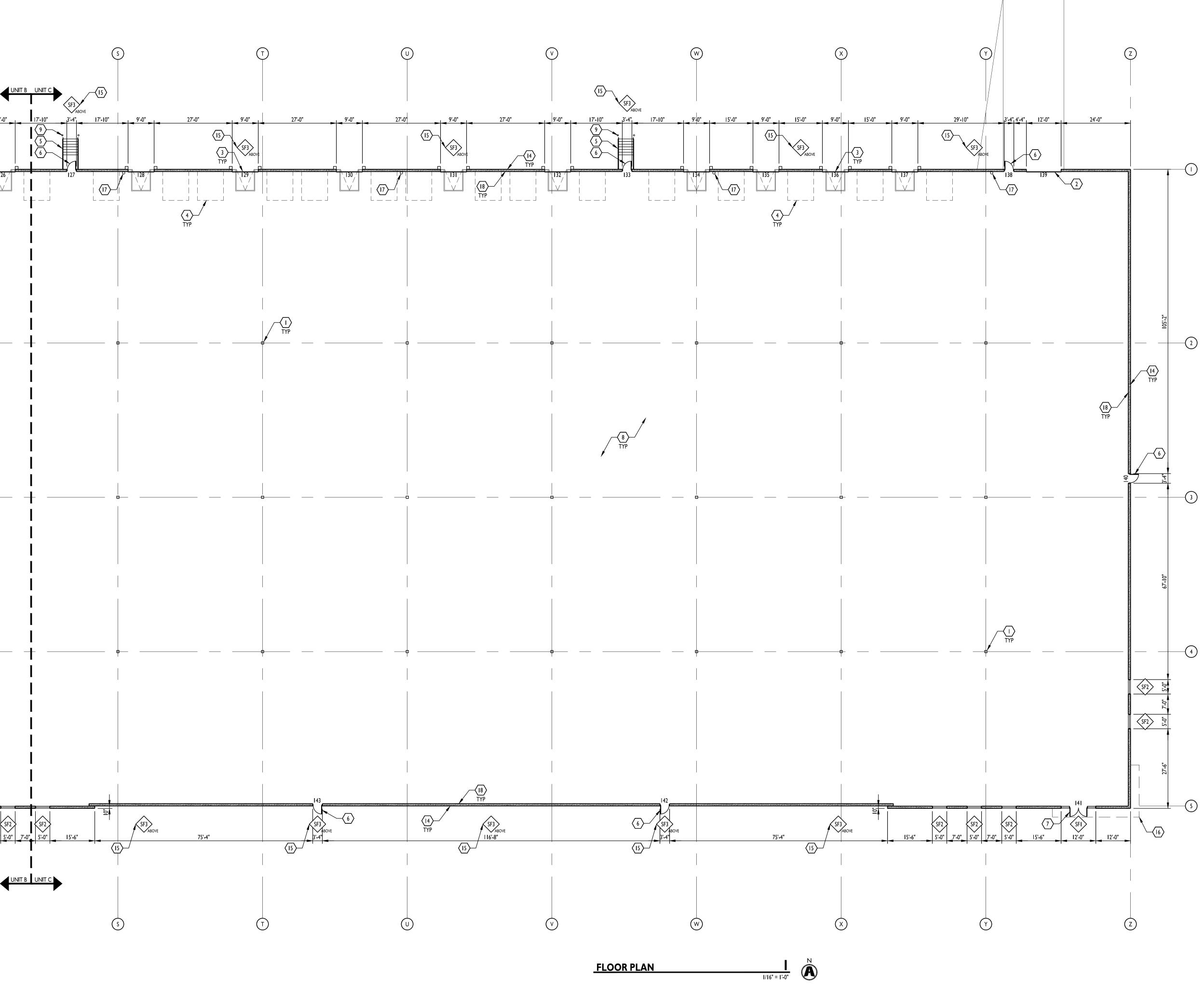
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	220019	
	FLOOR PLAN - AREA	ΑВ

PERMIT SET



AI03



GENERAL NOTES

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KEYED NOTES

DOOR SCHEDULE.

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- II. NOT USED.
- 12. NOT USED.

FOR SIZE.

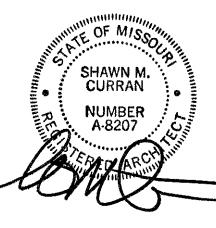
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- 18. INTERIOR OF TILT-UP WALL PANELS TO BE PAINTED SEMI GLOSS WHITE FULL HEIGHT.

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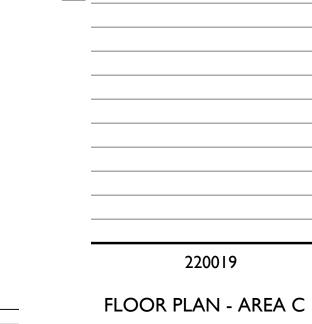
LEE'S SUMMIT LOGISTICS BUILDING C LOT 3

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

> > **ISSUE DATES**

09.16.22

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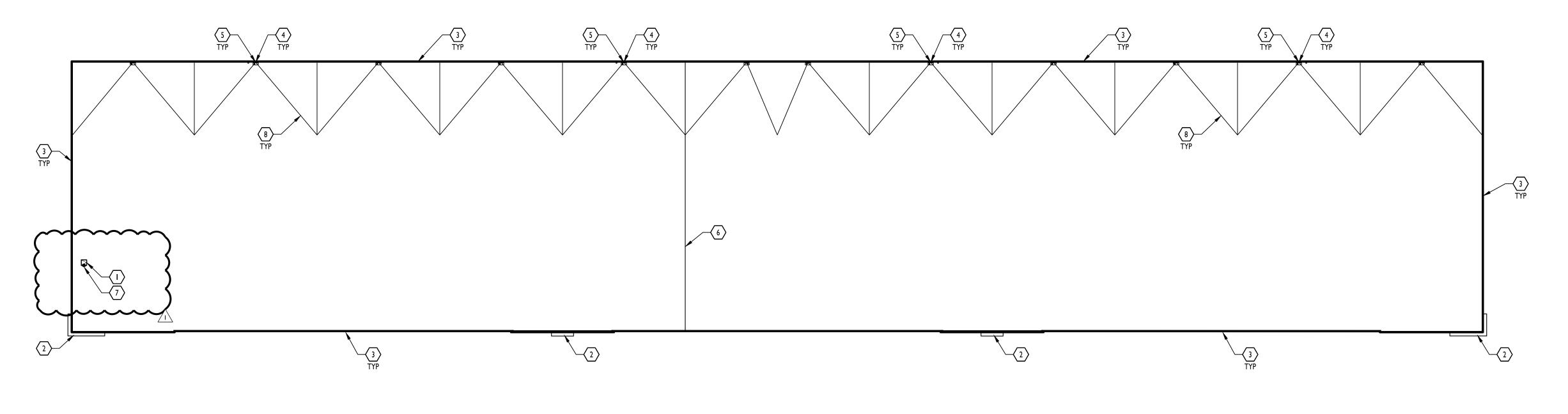
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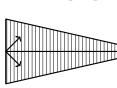
LOCATION





ROOF PLAN

ROOF PLAN LEGEND



DENOTES TAPERED INSULATION OR ROOF CRICKETS TO ROOF DRAIN LOCATIONS. SLOPE MIN OF $\frac{1}{4}$ "/FOOT AS INDICATED BY ARROWS OR TWICE THE AMOUNT OF THE UNDERLYING DECK WHICHEVER IS GREATER.



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

- I. 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.
- LINE INDICATES APPROXIMATE LOCATION OF ROOF FRAMING, SLOPE TO DRAIN. SEE ROOF FRAMING PLANS.



ARCHITECTURE

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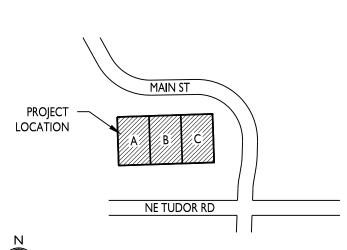
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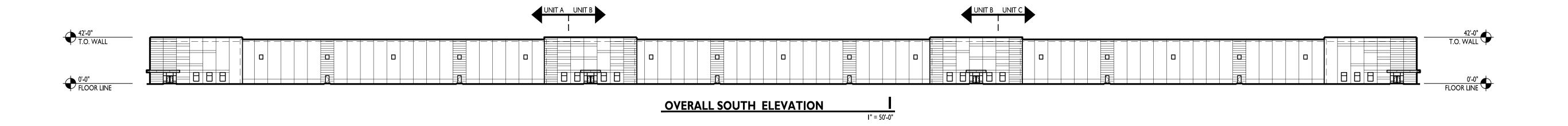
LEE'S SUMMIT LOGISTICS **BUILDING C LOT 3**

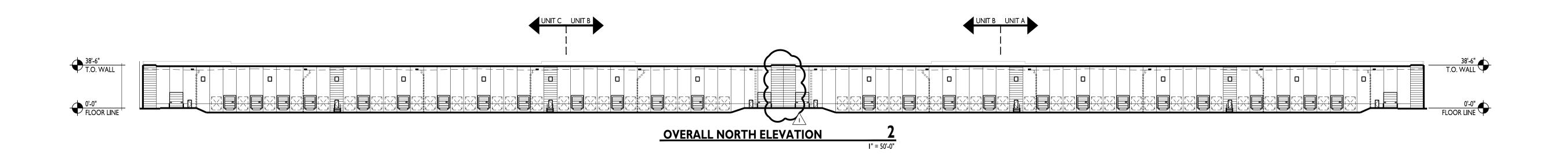
> X CORNER OF NE TUDOR RD & MAIN ST LEE'S SUMMIT, MO 64086



KEY PLAN

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ERMIT SET	09.16.22
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ROOF PLAI	N
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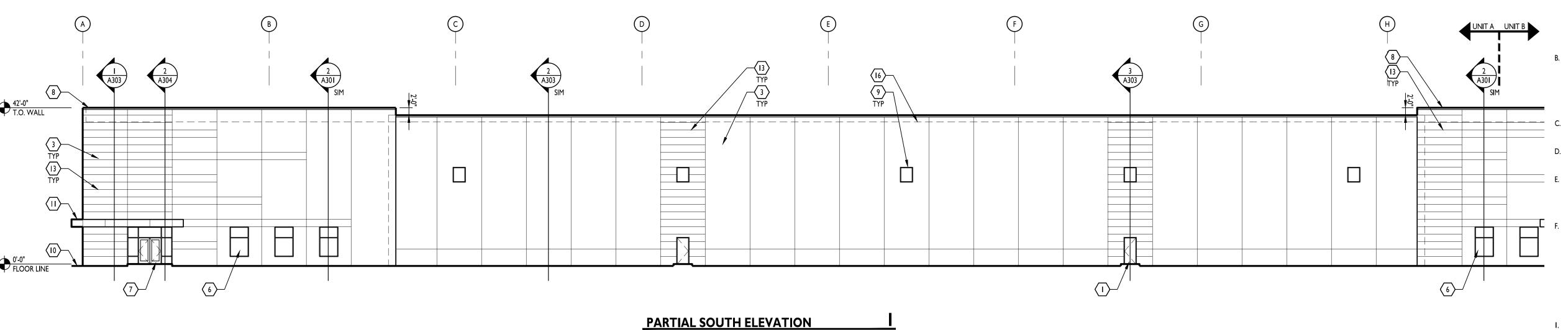
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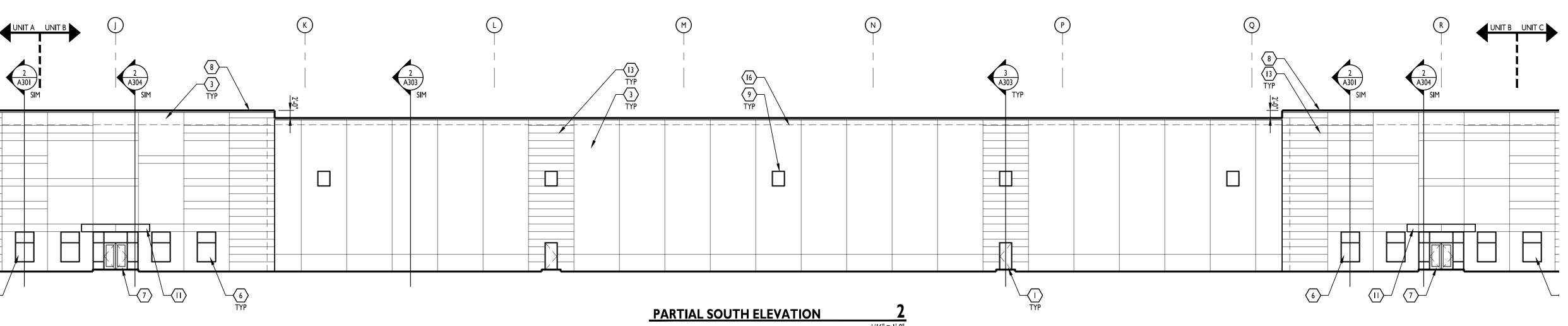
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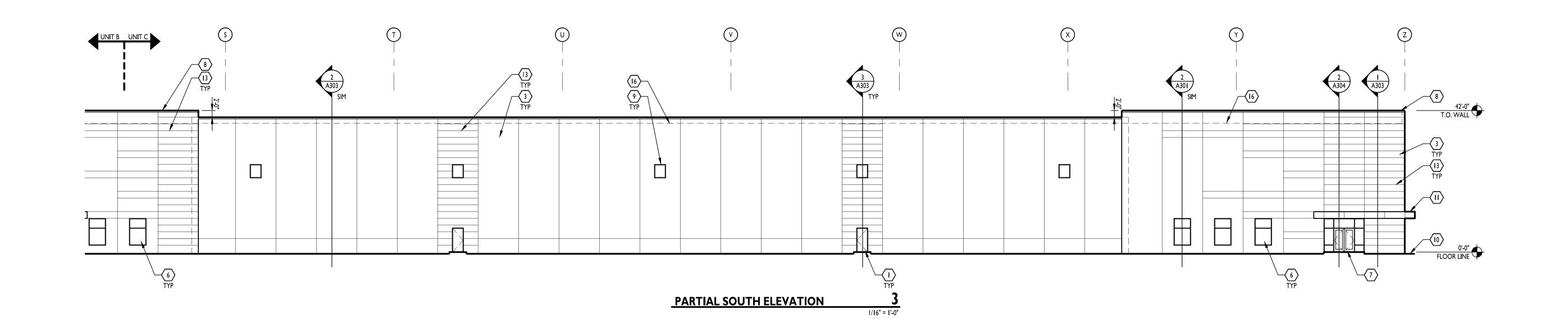
PERMIT SET	09.16.22
PUMP ROOM REVISION	07.25.22
2200	19

A 200

OVERALL EXTERIOR ELEVATIONS







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.
- ELASTOMERIC PAINTS WILL BE ACCEPTABLE. CONFLEX OR SHERLASTIC OR EQUAL. MUST BE APPLIED AT 10 MILS RO 30 + MILS WET. MUST APPLY TWO COATS. VERIFY PH REQUIREMENTS WITH DATA SHEETS.
- F. BASE LINE SPECIFICATION FOR THIS PROJECT:
 PRIMER COAT: LOXON SEALER A24W8300
 SECOND COAT: A-100 EXTERIOR LATEX FLAT A6 SERIES

KEYED NOTES

- I. INSULATED STEEL DOOR. SEE DOOR SCHEDULE. VERIFY PAINT COLOR WITH OWNER.
- 2. TYPICAL DOCK DOOR AND EQUIPMENT. SEE DOOR SCHEDULE
- 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.
- II. 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.
- I3. 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.
- I5. TYPICAL PAINTED STEEL BOLLARDS.
- 16. DASHED LINE INDICATES SLOPE OF ROOF LINE BEYOND. SEE ROOF PLAN FOR MORE INFORMATION.
- 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.
- ROOF DRAIN ON INTERIOR SIDE OF PANEL. COORDINATE LOCATION TO BE CENTERED BETWEEN DOORS / KNOCKOUTS, AND TO AVOID CLERESTORY WINDOWS.



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CERTIFICATION OF MISSOURIE SHAWN M. CURRAN NUMBER A-8207

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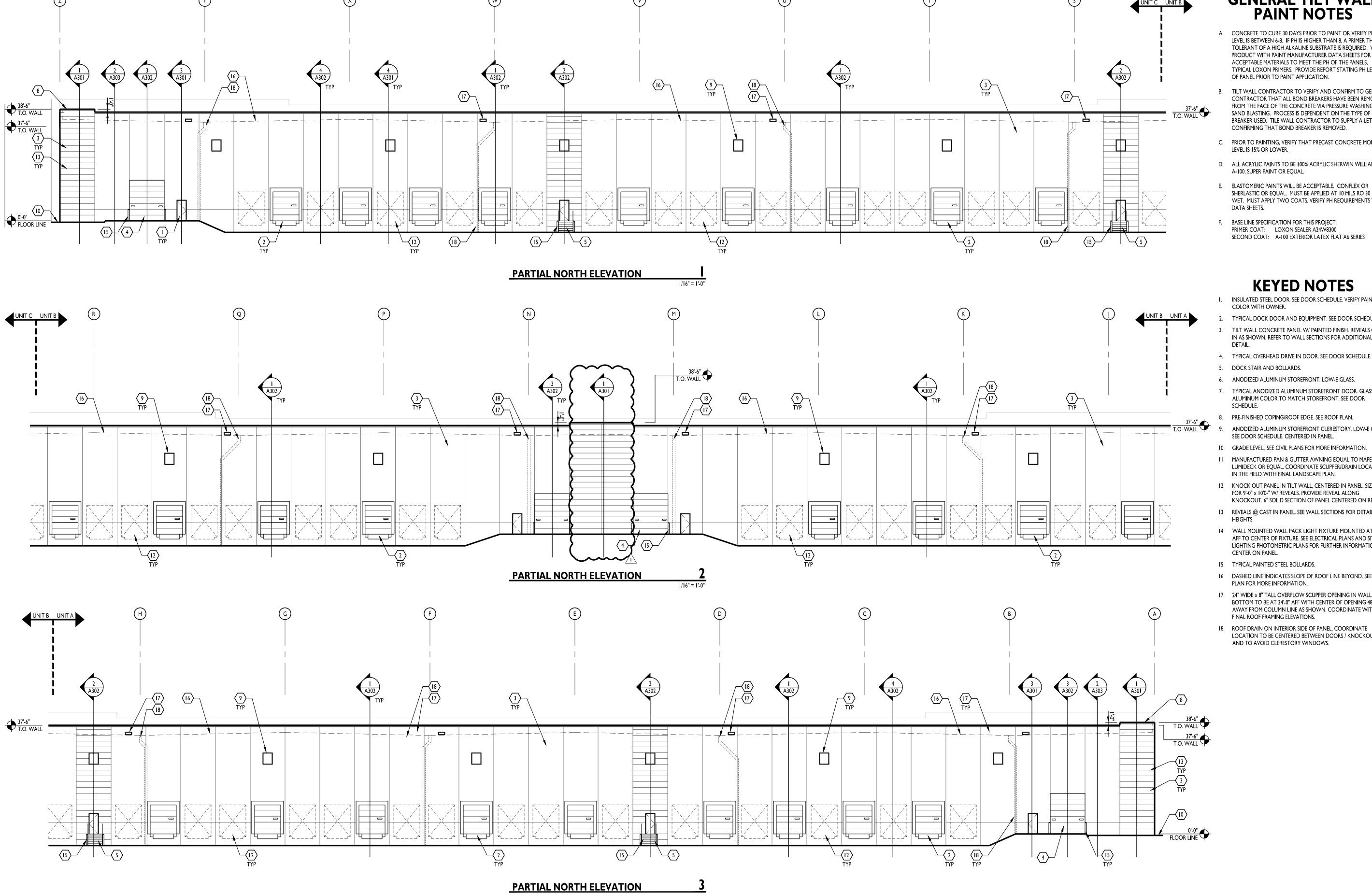
PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING C LOT 3

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

ISSUE DA	TES
PERMIT SET	09.16.22
220019	
220017	

EXTERIOR ELEVATIONS



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

KEYED NOTES I. INSULATED STEEL DOOR. SEE DOOR SCHEDULE. VERIFY PAINT TYPICAL DOCK DOOR AND EQUIPMENT. SEE DOOR SCHEDULE

TILT WALL CONCRETE PANEL W/ PAINTED FINISH. REVEALS CAST IN AS SHOWN. REFER TO WALL SECTIONS FOR ADDITIONAL

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.
- PRE-FINISHED COPING/ROOF EDGE. SEE ROOF PLAN. ANODIZED ALUMINUM STOREFRONT CLERESTORY. LOW-E GLASS.
- SEE DOOR SCHEDULE. CENTERED IN PANEL. 10. GRADE LEVEL., SEE CIVIL PLANS FOR MORE INFORMATION.
- II. MANUFACTURED PAN & GUTTER AWNING EQUAL TO MAPES LUMIDECK OR EQUAL. COORDINATE SCUPPER/DRAIN LOCATIONS IN THE FIELD WITH FINAL LANDSCAPE PLAN.
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- 13. REVEALS @ CAST IN PANEL. SEE WALL SECTIONS FOR DETAIL &
- 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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CERTIFICATION



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PROJECT INFORMATION

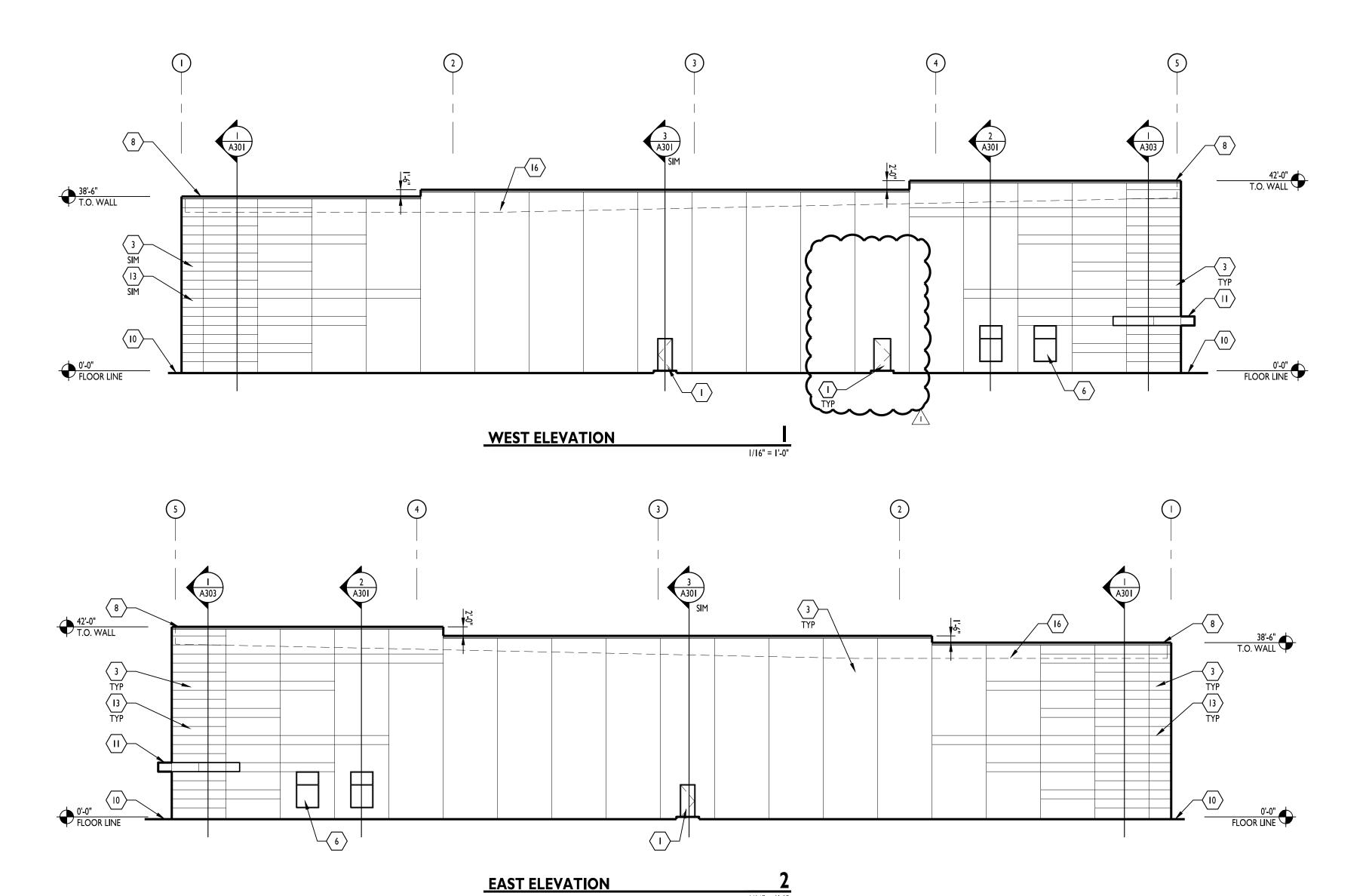
LEE'S SUMMIT LOGISTICS BUILDING C LOT 3

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

ISSUE DAT	ES
PERMIT SET	09.16
PUMP ROOM REVISION	07.25
220019	

EXTERIOR ELEVATIONS

A202



GENERAL TILT WALL PAINT NOTES

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KEYED NOTES

I. INSULATED STEEL DOOR. SEE DOOR SCHEDULE. VERIFY PAINT

2. TYPICAL DOCK DOOR AND EQUIPMENT. SEE DOOR SCHEDULE 3. TILT WALL CONCRETE PANEL W/ PAINTED FINISH. REVEALS CAST IN AS SHOWN. REFER TO WALL SECTIONS FOR ADDITIONAL

4. TYPICAL OVERHEAD DRIVE IN DOOR. SEE DOOR SCHEDULE.

7. TYPICAL ANODIZED ALUMINUM STOREFRONT DOOR. GLASS AND ALUMINUM COLOR TO MATCH STOREFRONT. SEE DOOR

9. ANODIZED ALUMINUM STOREFRONT CLERESTORY. LOW-E GLASS.

LUMIDECK OR EQUAL. COORDINATE SCUPPER/DRAIN LOCATIONS

KNOCKOUT. 6" SOLID SECTION OF PANEL CENTERED ON REVEAL.

10. GRADE LEVEL., SEE CIVIL PLANS FOR MORE INFORMATION. II. MANUFACTURED PAN & GUTTER AWNING EQUAL TO MAPES

12. KNOCK OUT PANEL IN TILT WALL, CENTERED IN PANEL. SIZED

13. REVEALS @ CAST IN PANEL. SEE WALL SECTIONS FOR DETAIL &

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.

16. DASHED LINE INDICATES SLOPE OF ROOF LINE BEYOND. SEE ROOF

BOTTOM TO BE AT 34'-0" AFF WITH CENTER OF OPENING 48"

AWAY FROM COLUMN LINE AS SHOWN. COORDINATE WITH

LOCATION TO BE CENTERED BETWEEN DOORS / KNOCKOUTS,

17. 24" WIDE x 8" TALL OVERFLOW SCUPPER OPENING IN WALL.

18. ROOF DRAIN ON INTERIOR SIDE OF PANEL. COORDINATE

FOR 9'-0" x 10'0-" W/ REVEALS. PROVIDE REVEAL ALONG

6. ANODIZED ALUMINUM STOREFRONT. LOW-E GLASS.

8. PRE-FINISHED COPING/ROOF EDGE. SEE ROOF PLAN.

SEE DOOR SCHEDULE. CENTERED IN PANEL.

IN THE FIELD WITH FINAL LANDSCAPE PLAN.

COLOR WITH OWNER.

5. DOCK STAIR AND BOLLARDS.

SCHEDULE.

CENTER ON PANEL.

15. TYPICAL PAINTED STEEL BOLLARDS.

PLAN FOR MORE INFORMATION.

FINAL ROOF FRAMING ELEVATIONS.

AND TO AVOID CLERESTORY WINDOWS.

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

ARCHITECTURE

5719 LAWTON LOOP E. DR. #212

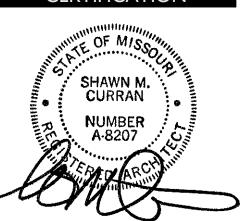
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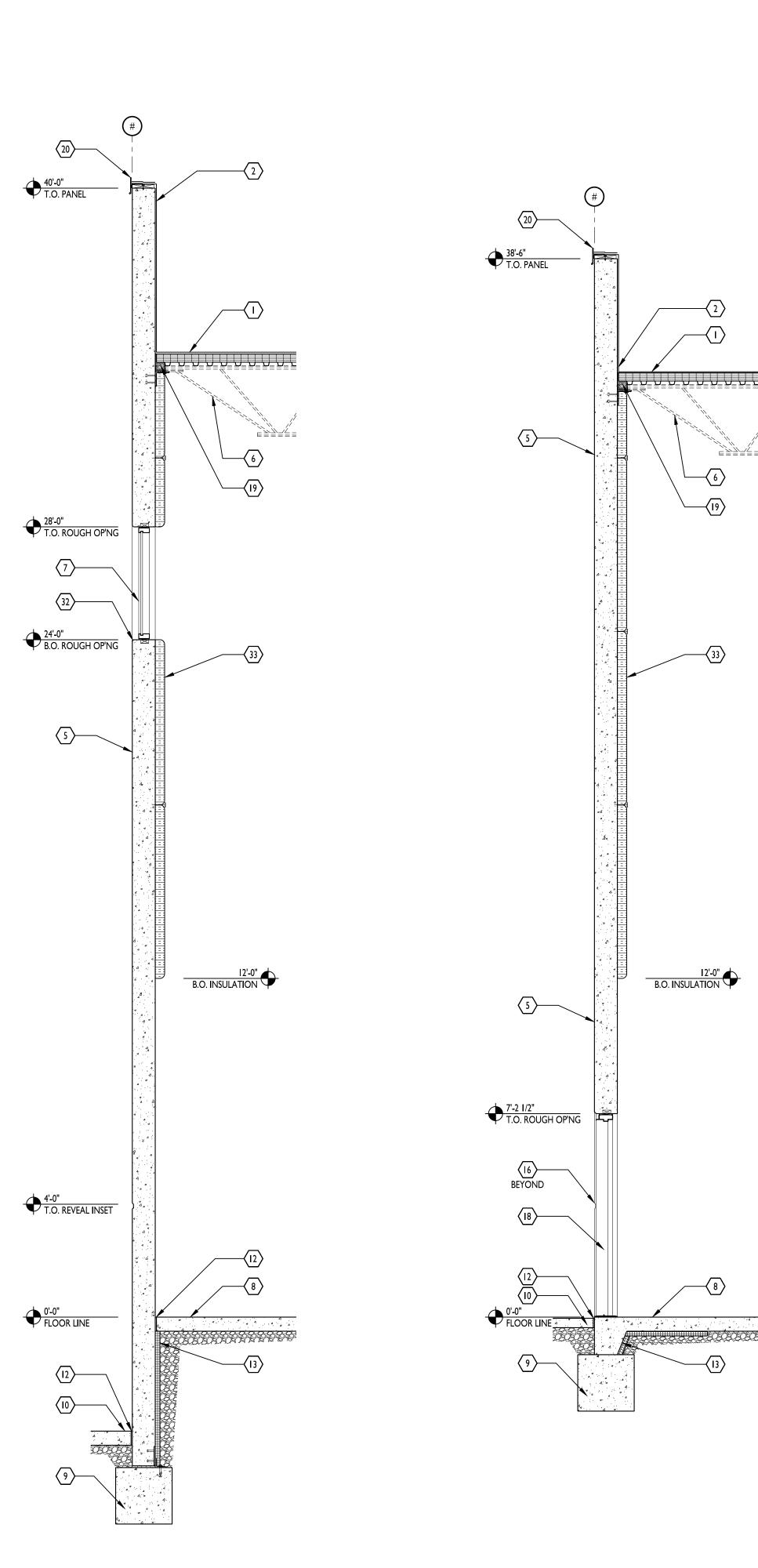
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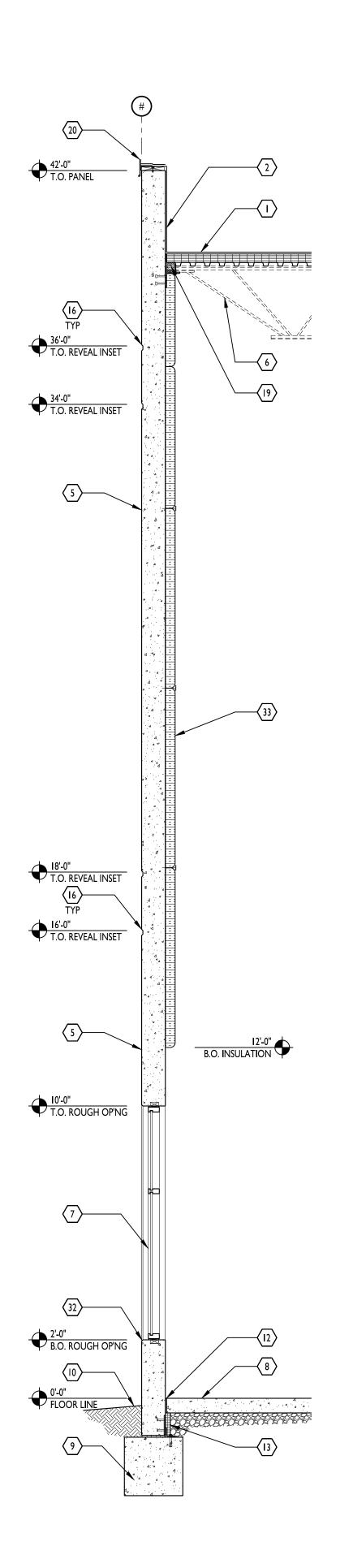
LEE'S SUMMIT LOGISTICS BUILDING C LOT 3

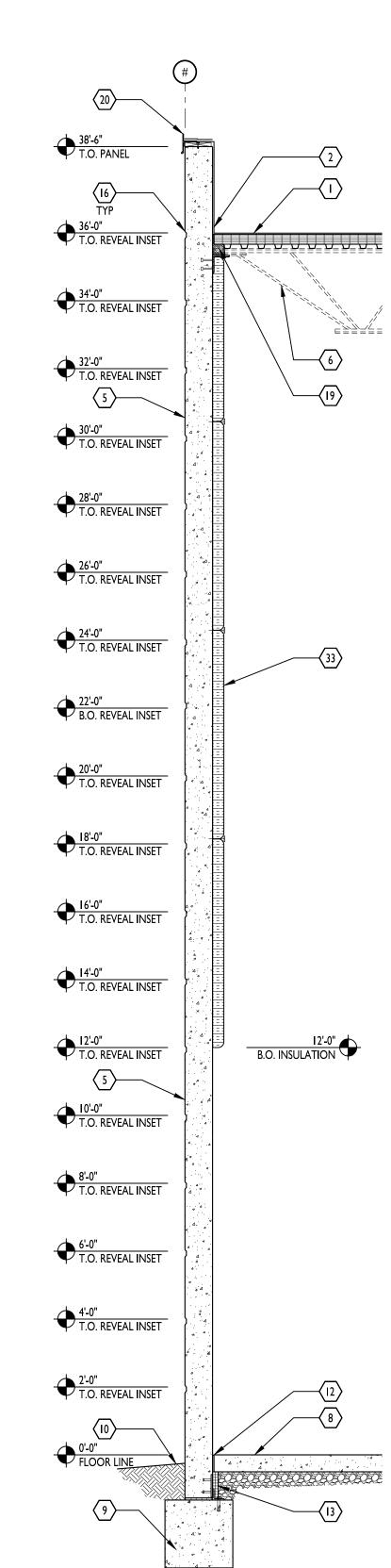
> X CORNER OF NE TUDOR RD & MAIN ST LEE'S SUMMIT, MO 64086

ISSUE DAT	ES
PERMIT SET	09.16.2
YUMP ROOM REVISION	07.25.2
220019	

EXTERIOR ELEVATIONS





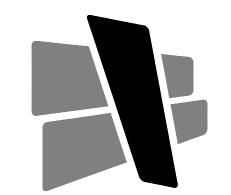


KEYED NOTES

- I. ROOF MEMBRANE AND INSULATION BOARD. SEE ROOF PLAN FOR INFORMATION. UNDERSIDE OF DECKING FACTORY FINISHED, COLOR WHITE. MINIMUM SLOPE I/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.
- DOCK SEAL AND DOCK BUMPER
- 4. PRE-FINISHED INSULATED STEEL OVERHEAD DOOR. REFER TO DOOR
- 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 I" INSULATED TINTED GLASS. REFER TO STOREFRONT ELEVATIONS FOR MORE INFORMATION.
- 8. CONCRETE SLAB ON GRADE. SEE STRUCTURAL.
- 9. REINFORCED CONCRETE FOUNDATION. SEE STRUCTURAL.
- II. PROVIDE HINGED LOCKING GATE ON LADDER.
- 12. 1/2" EXPANSION JOINT
- 13. 2" RIGID INSULATION BOARD, TYPICAL, UNDERSIDE OF SLAB TO TOP OF FOOTING. AT DOORS AND LOCATIONS WHERE DOORS OR STOREFRONT EXTENDS TO FLOOR SLAB, EXTEND THE INSULATION HORIZONTALLY UNDER THE SLAB A MINIMUM OF 4'.
- 14. DOCK LEVELER PIT. VERIFY DIMENSIONS WITH SUBMITTAL PACKAGE OF LEVELER UNIT. SEE STRUCTURAL FOR REINFORCEMENT INFORMATION.

10. SEE CIVIL FOR EXTERIOR GRADING, SIDEWALKS, ETC...

- MANUFACTURED PAN AND GUTTER AWNING SYSTEM WITH SCUPPER DIRECTED TO LANDSCAPE BELOW, MAPES LUMIDECK OR EQUAL. FINISH AND SCUPPER LOCATION TO BE SELECTED BY ARCHITECT.
- 16. REVEALS CAST IN TILTWALL WALL. REFER TO 8/A501. SEE ELEVATIONS FOR LOCATIONS OF REVEALS ON EACH PANEL
- 17. TYPICAL SEALANT JOINT
- 18. INSULATED STEEL DOOR AND HOLLOW METAL FRAME. REFER TO FLOOR PLAN FOR NUMBER AND DOOR SCHEDULE FOR SIZE, HARDWARE, AND
- 19. FOAM ENCLOSURE, TYPICAL ENTIRE PERIMETER OF DECK. VERIFY MATERIAL AND DETAILS. COORDINATE WITH DECK MANUFACTURER/SUPPLIER. FOAM BETWEEN BLOCKING AND TOP LAYER OF ROOF INSULATION. EXTEND DOWN TO DECK AND JOIST
- PRE-FINISHED METAL COPING WITH CONT. HOLD DOWN CLIP. COLOR SELECTED BY ARCHITECT FROM FULL RANGE OF MANUFACTURER'S
- 21. INSULATION IS TO EXTEND TO BACK OF DOCK LEVELER PIT, AND EXTEND VERTICALLY UP SIDES AND BACK OF PIT TO COMPLETELY INSULATE PIT PERIMETER.
- 22. GALVANIZED STEEL DOCK STAIR ASSEMBLY. REFER TO 11 AND 12/A501 FOR INFORMATION
- 23. 4' X 4' INSULATED ROOF HATCH. COORDINATE PLACEMENT WITH ROOF FRAMING. LADDER TO BE CENTERED BELOW HATCH.
- 24. "LADDER UP" SUPPORT POST
- 25. PROVIDE BRACING AS REQUIRED BY LADDER SUPPLIER.
- 26. OSHA COMPLIANT ROOF ACCESS LADDER CAGE.
- 27. LADDER BRACKETS. ANCHOR TO SLAB, ROOF FRAMING AND PLATFORM.
- 28. 18 INCH WIDE STEEL LADDER WITH I INCH DIAMETER STEEL RUNGS AT 12 INCHES O.C. SECURE STRINGERS TO FLOOR - TYPICAL BOTH SIDES PER LADDER SUPPLIER REQUIREMENTS.
- 29. I 1/2" DIA STEEL 2 LINE GUARD RAIL WITH 4" TALL TOE BOARD AT PLATFORM LEVEL
- 30. PROVIDE ADD ALTERNATE PRICING TO PROVIDE CONDUIT FOR FUTURE TRAILER RESTRAINT
- 31. CONCRETE FILLED PIPE BOLLARDS, PAINTED SAFETY YELLOW. REFER TO CIVIL DRAWINGS FOR MORE INFORMATION
- 32. FLASHING TO EXTEND OVER EDGE OF CONCRETE. PROVIDE HEMMED
- 33. STICK PIN INSULATION W/ MINIMUM R-13 VALUE. USE ADHESIVES & FASTENERS TO SECURE INSULATION.
- 34. 8" REINFORCED CMU WALL. REFER TO STRUCTURAL DWGS.
- 35. HONEYWELL GLIDELOC VERTICAL RAIL AND FALL ARRESTER SYSTEM MOUNTED TO CENTER OF RUNGS, OR EQUAL.
- 36. CONSTRUCT I HR RATED WALL ON TOP OF CMU TO ROOF DECK. REFER TO WALL TYPE W4A ON A001.
- 37. TYPICAL DEFLECTION TRACK. REFER TO A501 FOR DETAIL.
- 38. CONTRACTOR TO COORDINATE REQUIRED OVERHEAD DOOR CLEARANCES WITH INSULATION PLACEMENT.

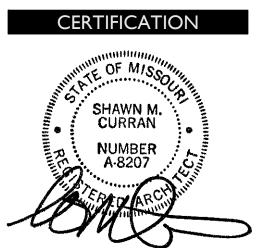


ARCHITECTURE

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PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING C LOT 3

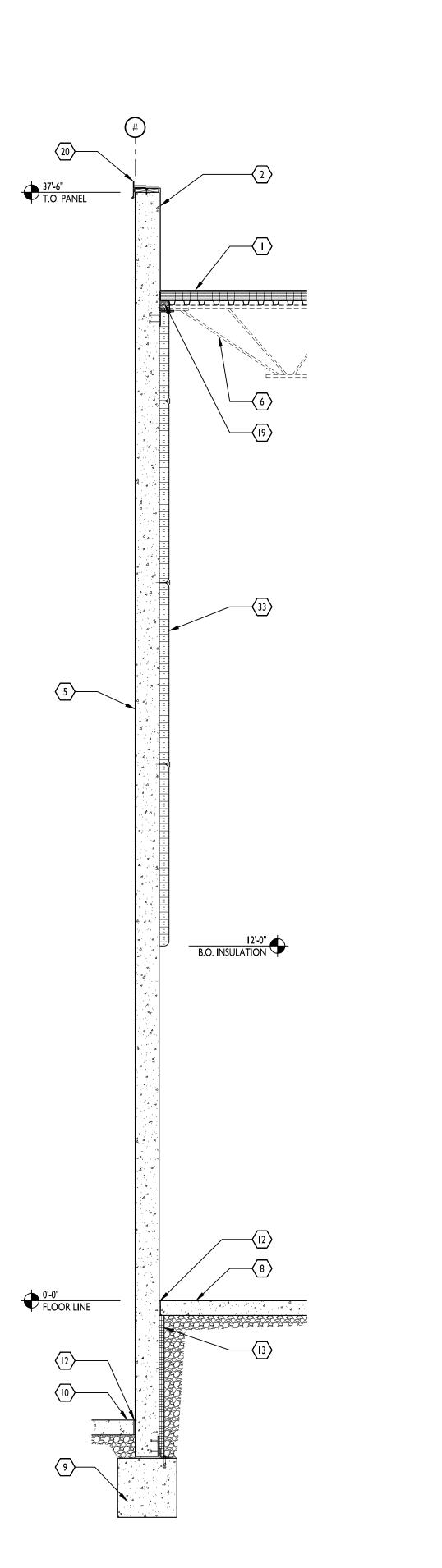
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	ISSUE DATES
PERMIT SET	

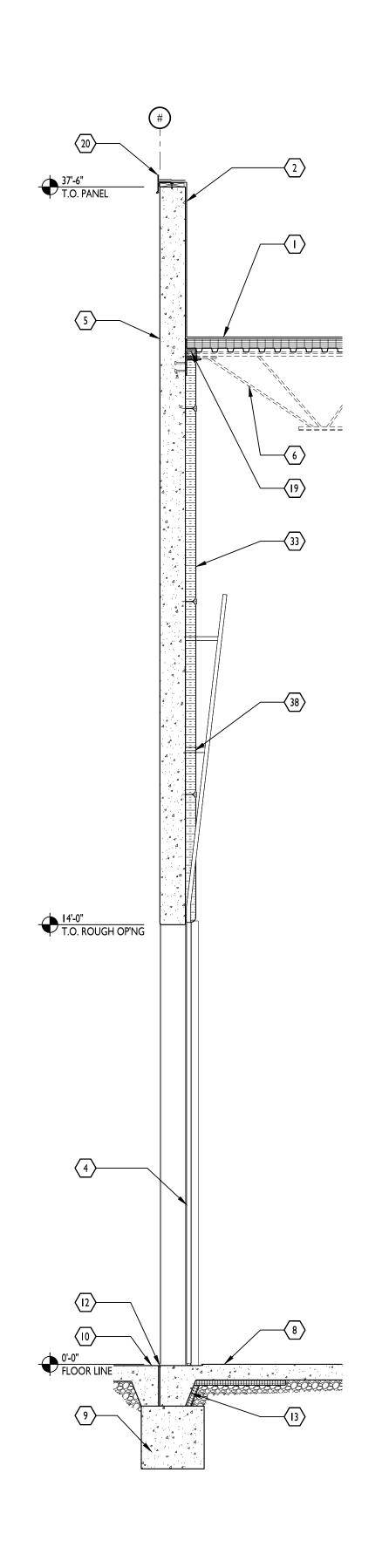
WALL SECTIONS

220019

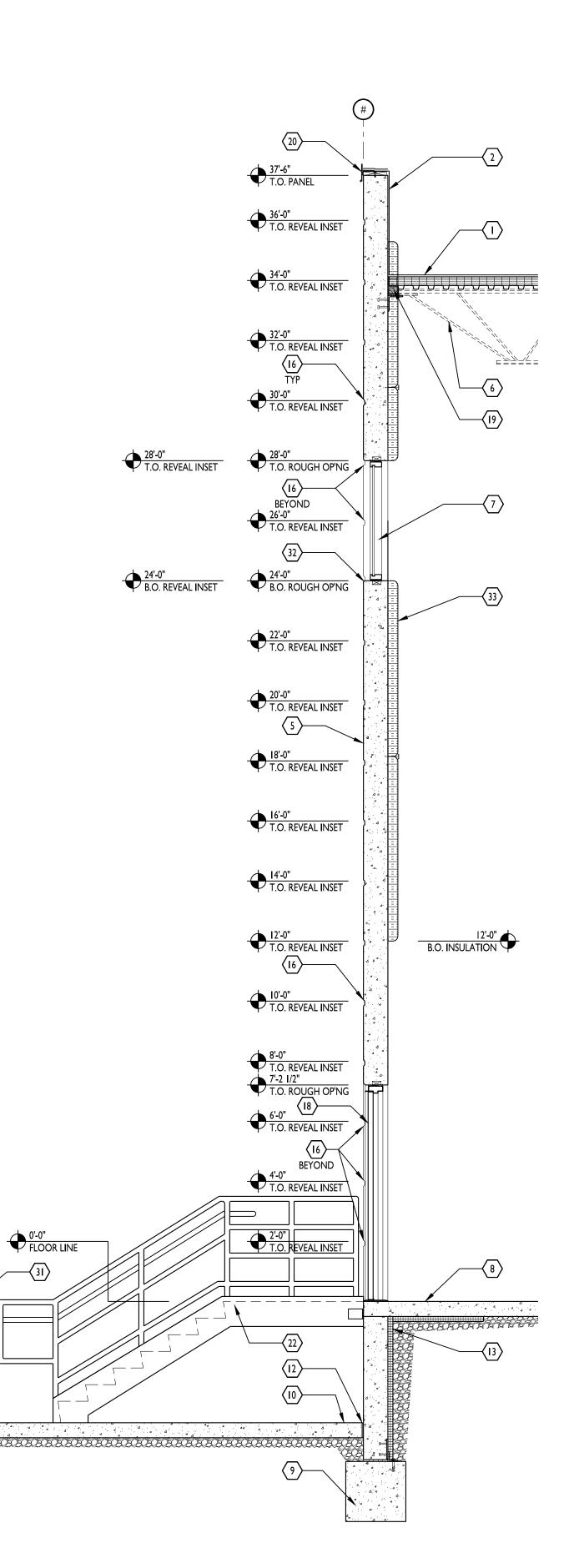
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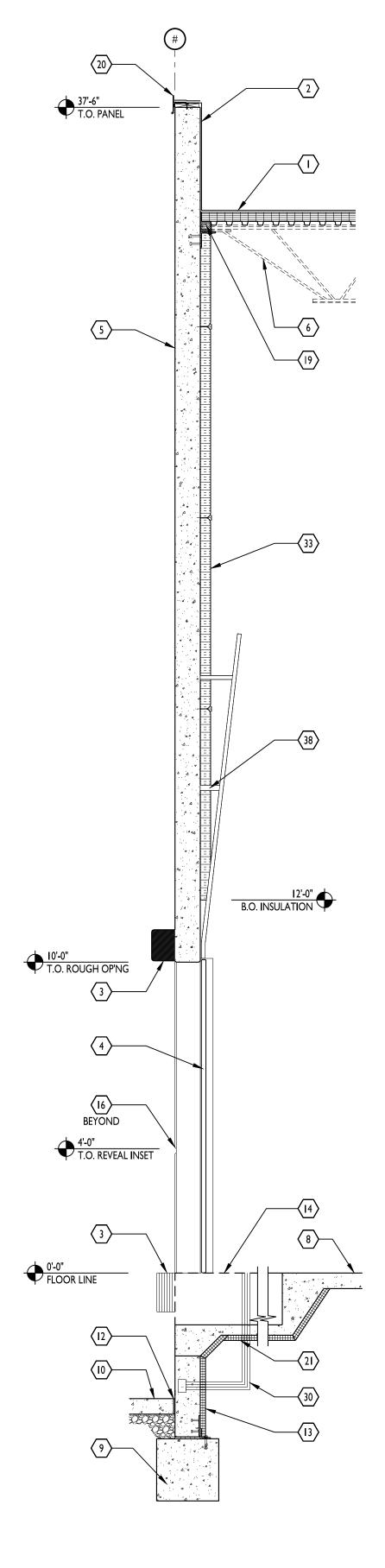


SECTION



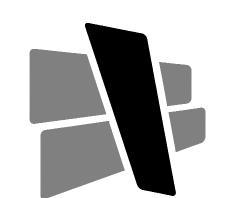
SECTION





KEYED NOTES

- 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 I/A301 FOR TYPICAL VERTICAL SPACING OF REVEALS. REFER TO ELEVATIONS FOR SPECIFIC REVEAL LAYOUT PER PANEL.
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- 25. PROVIDE BRACING AS REQUIRED BY LADDER SUPPLIER.
- 26. OSHA COMPLIANT ROOF ACCESS LADDER CAGE.
- 27. LADDER BRACKETS. ANCHOR TO SLAB, ROOF FRAMING AND PLATFORM.
- 28. 18 INCH WIDE STEEL LADDER WITH I INCH DIAMETER STEEL RUNGS AT 12 INCHES O.C. SECURE STRINGERS TO FLOOR TYPICAL BOTH SIDES PER LADDER SUPPLIER REQUIREMENTS.
- 29. I 1/2" DIA STEEL 2 LINE GUARD RAIL WITH 4" TALL TOE BOARD AT PLATFORM LEVEL
- 30. PROVIDE ADD ALTERNATE PRICING TO PROVIDE CONDUIT FOR FUTURE TRAILER RESTRAINT
- 31. CONCRETE FILLED PIPE BOLLARDS, PAINTED SAFETY YELLOW. REFER TO CIVIL DRAWINGS FOR MORE INFORMATION
- 32. FLASHING TO EXTEND OVER EDGE OF CONCRETE. PROVIDE HEMMED
- 33. STICK PIN INSULATION W/ MINIMUM R-13 VALUE. USE ADHESIVES & FASTENERS TO SECURE INSULATION.
- 34. 8" REINFORCED CMU WALL. REFER TO STRUCTURAL DWGS.
- 35. HONEYWELL GLIDELOC VERTICAL RAIL AND FALL ARRESTER SYSTEM MOUNTED TO CENTER OF RUNGS, OR EQUAL.
- 36. CONSTRUCT I HR RATED WALL ON TOP OF CMU TO ROOF DECK. REFER TO WALL TYPE W4A ON A001.
- 37. TYPICAL DEFLECTION TRACK. REFER TO A501 FOR DETAIL.
- 38. CONTRACTOR TO COORDINATE REQUIRED OVERHEAD DOOR CLEARANCES WITH INSULATION PLACEMENT.

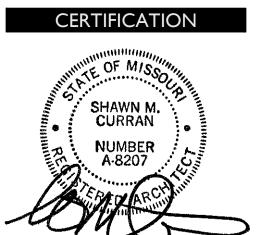


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PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING C LOT 3

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

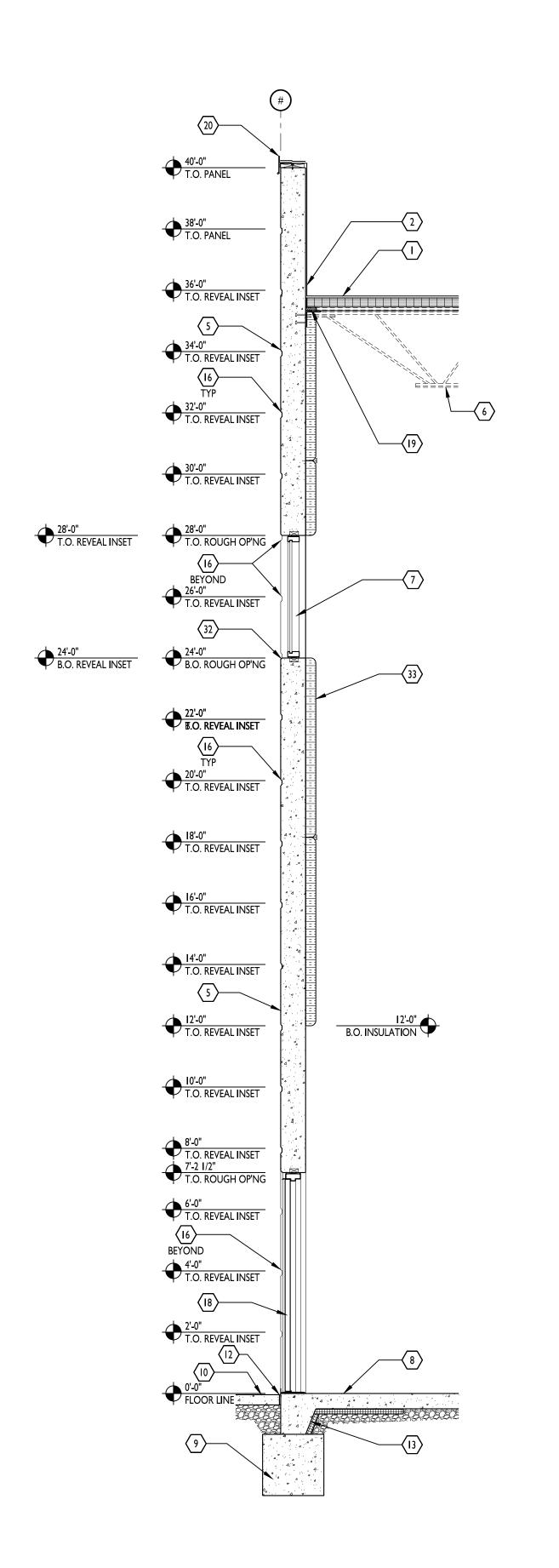
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220019	

WALL SECTIONS

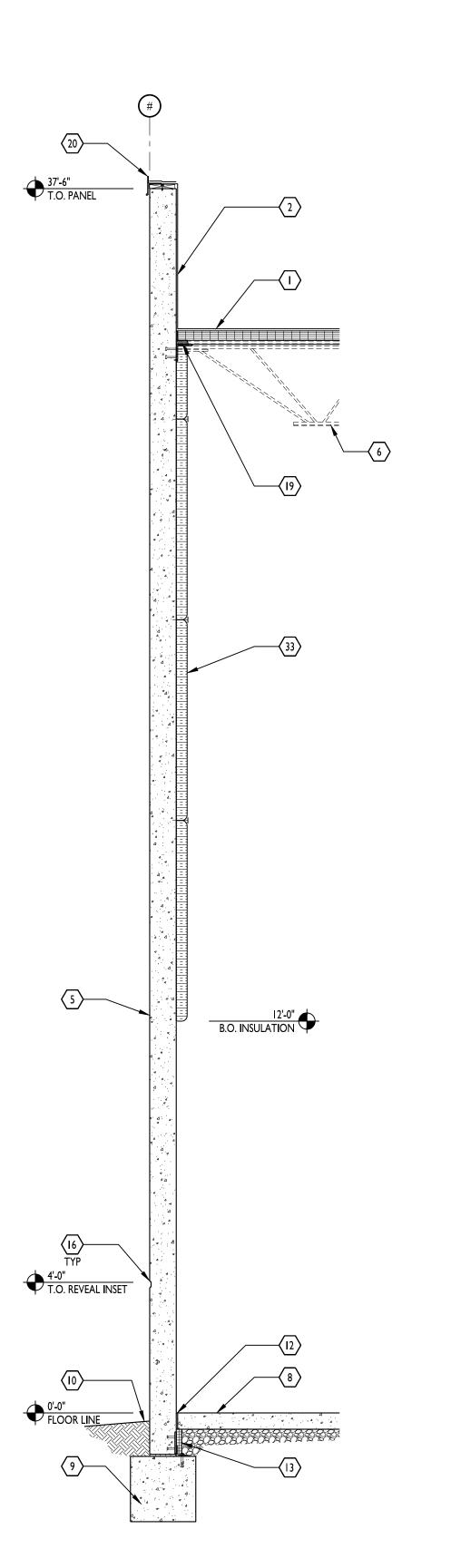
A302

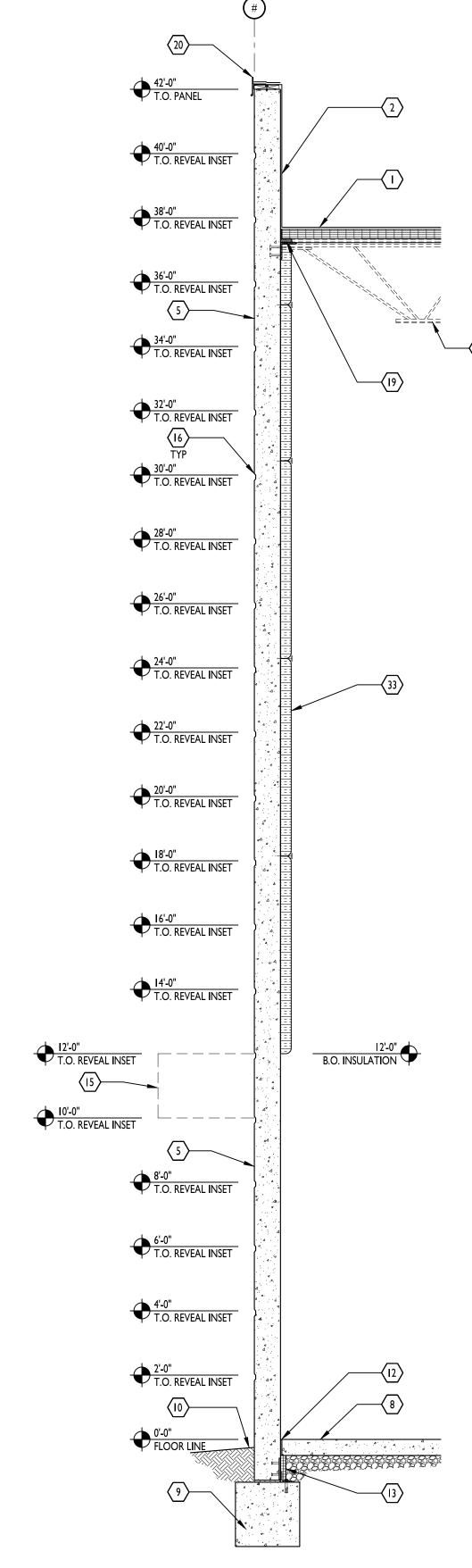
 SECTION
 2

 3/8" = 1'-0"
 SECTION



SECTION

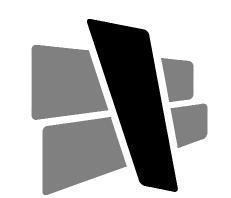




KEYED NOTES

- 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
- TYPICAL WALL PANELS: TILTWALL CONCRETE PANELS WITH STEEL FORM PAINT READY EXTERIOR FINISH. REFER TO I/A30I 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
- THERMALLY BROKEN ALUMINUM STOREFRONT FRAMING WITH I" INSULATED TINTED GLASS. REFER TO STOREFRONT ELEVATIONS FOR MORE INFORMATION.
- 8. CONCRETE SLAB ON GRADE. SEE STRUCTURAL.
- 9. REINFORCED CONCRETE FOUNDATION. SEE STRUCTURAL.
- 10. SEE CIVIL FOR EXTERIOR GRADING, SIDEWALKS, ETC...11. PROVIDE HINGED LOCKING GATE ON LADDER.
- 12. 1/2" EXPANSION JOINT
- 13. 2" RIGID INSULATION BOARD, TYPICAL, UNDERSIDE OF SLAB TO TOP OF FOOTING. AT DOORS AND LOCATIONS WHERE DOORS OR STOREFRONT EXTENDS TO FLOOR SLAB, EXTEND THE INSULATION HORIZONTALLY UNDER THE SLAB A MINIMUM OF 4'.
- 14. DOCK LEVELER PIT. VERIFY DIMENSIONS WITH SUBMITTAL PACKAGE OF LEVELER UNIT. SEE STRUCTURAL FOR REINFORCEMENT INFORMATION.
- 15. MANUFACTURED PAN AND GUTTER AWNING SYSTEM WITH SCUPPER DIRECTED TO LANDSCAPE BELOW, MAPES LUMIDECK OR EQUAL. FINISH AND SCUPPER LOCATION TO BE SELECTED BY ARCHITECT.
- 16. REVEALS CAST IN TILTWALL WALL. REFER TO 8/A501. SEE ELEVATIONS FOR LOCATIONS OF REVEALS ON EACH PANEL
- 17. TYPICAL SEALANT JOINT
- 18. INSULATED STEEL DOOR AND HOLLOW METAL FRAME. REFER TO FLOOR PLAN FOR NUMBER AND DOOR SCHEDULE FOR SIZE, HARDWARE, AND FINISH.
- 19. FOAM ENCLOSURE, TYPICAL ENTIRE PERIMETER OF DECK. VERIFY MATERIAL AND DETAILS. COORDINATE WITH DECK MANUFACTURER/SUPPLIER. FOAM BETWEEN BLOCKING AND TOP LAYER OF ROOF INSULATION. EXTEND DOWN TO DECK AND JOIST ANGLES.
- 20. PRE-FINISHED METAL COPING WITH CONT. HOLD DOWN CLIP. COLOR SELECTED BY ARCHITECT FROM FULL RANGE OF MANUFACTURER'S COLORS
- 21. INSULATION IS TO EXTEND TO BACK OF DOCK LEVELER PIT, AND EXTEND VERTICALLY UP SIDES AND BACK OF PIT TO COMPLETELY INSULATE PIT PERIMETER.
- 22. GALVANIZED STEEL DOCK STAIR ASSEMBLY. REFER TO 11 AND 12/A501 FOR INFORMATION
- 23. 4' X 4' INSULATED ROOF HATCH. COORDINATE PLACEMENT WITH ROOF FRAMING. LADDER TO BE CENTERED BELOW HATCH.
- 24. "LADDER UP" SUPPORT POST
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PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING C LOT 3

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

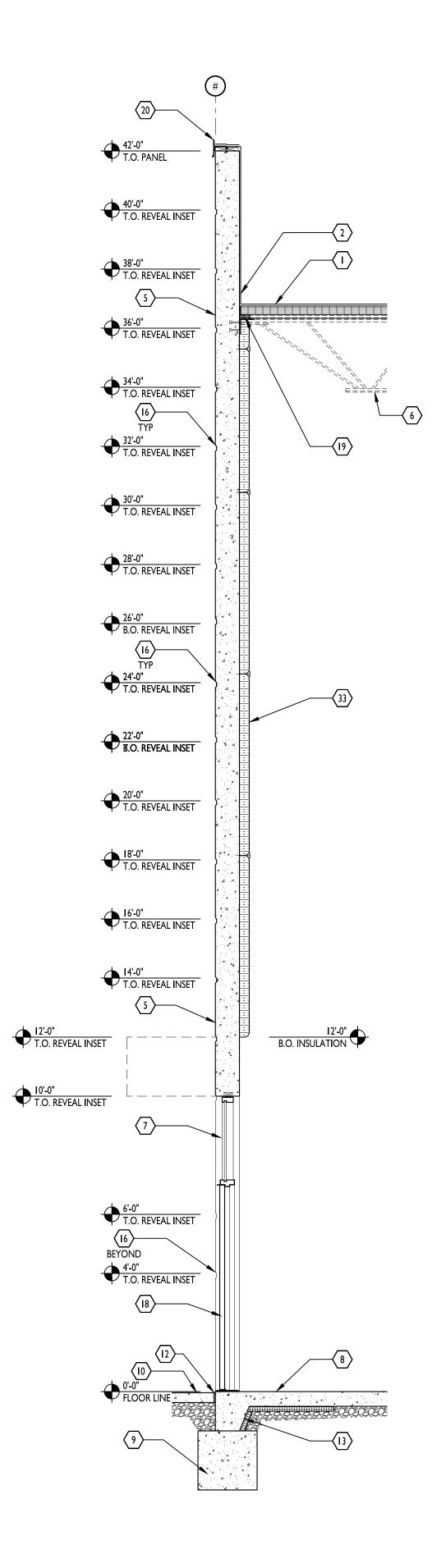
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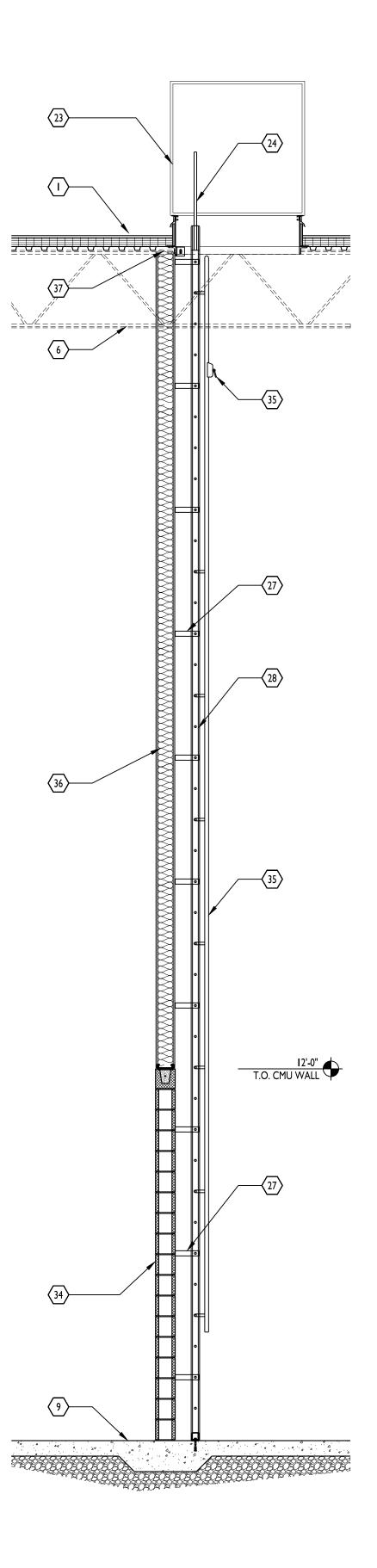
220019

WALL SECTIONS

A303

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

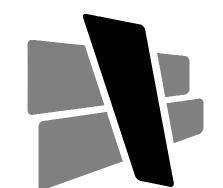




KEYED NOTES

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- 38. CONTRACTOR TO COORDINATE REQUIRED OVERHEAD DOOR CLEARANCES WITH INSULATION PLACEMENT.



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PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING C LOT 3

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

	ISSUE DA	TES	
PERMIT SET			09.16

220019

WALL SECTIONS

A304

 SECTION
 2

 3/8" = 1'-0"
 SECTION

BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263 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 - Viper 20^{TM} Track CRACO MFG INC — SmarterTrack20™, SmartTrack20™ MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track PHILLIPS MFG CO L L C — Viner20™ 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 CLARKDIETRICH BUILDING SYSTEMS — CD ProTRAK

 $\mathbf{DMFCWBS} \; \mathbf{L} \; \mathbf{C} - \mathsf{ProTRAK}$ MBA BUILDING SUPPLIES — ProTRAK

RAM SALES L L C — Ram ProTRAK

BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263

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 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

BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263

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. 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

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/ft³. Alternate Application Method: The fiber is applied without water or adhesive at a nominal dry density of 3.5 lb/ft³, 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

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

BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263

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 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/ft³. 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,

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

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

ACADIA DRYWALL SUPPLIES LTD — Type X

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, LGFC6A, LGFC6A, LGFC-C, LGFC-C/A, LGFC-WD,

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

 $http://database.ul.com/...ANSI/UL+263&objid=1073394818&sequence=1[8/8/2013 8:57:01 AM] \\ http://database.ul.com/...ANSI/UL+263&objid=1073394818&sequence=1[8/8/2013 8:57:01 AM]$ BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263 fitted into clips.

THAI GYPSUM PRODUCTS PCL — Type X, Type C.

BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263

UNITED STATES GYPSUM CO - Type AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX,

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.,

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.

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME Framing System

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.

 $\textbf{UNITED STATES GYPSUM CO} - \texttt{T ype AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX, IP-X2, IPC-AR, SCX, SHX, WRC, WRX, IP-X2, IPC-AR, SCX, SHX, WRC, WRX, IPC-AR, IP$

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 **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. $\textbf{NATIONAL GYPSUM CO} - \mathsf{SoundBreak} \; \mathsf{XP} \; \mathsf{Type} \; \mathsf{X} \; \mathsf{Gypsum} \; \mathsf{Board}$

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 gypsun 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 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 **UNITED STATES GYPSUM CO** — Type SCX

4J. $\mathbf{Gypsum\ Board^*}$ — (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 study 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.

UNITED STATES GYPSUM CO - Type ULX

USG MEXICO S A DE C V - Type ULX

BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263

STUDCO BUILDING SYSTEMS — CROCSTUD Track

TELLING INDUSTRIES L L C — Viper20™ Track

OC max. Studs to be cut 3/4 in. less than assembly height

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 5-12 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".

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.

1H. Floor and Ceiling Runners — (Not shown) — Channel shaped, fabricated from min 0.02 in, galy 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

1I. Framing Members* - Floor and Ceiling Runners — Not shown - In lieu of Item 1 - For use with Item

2. **Steel Studs** — Channel shaped, 3-5/8 in. deep (min), formed from min No. 25 MSG galv steel spaced 24 in.

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.

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.

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

2B. Framing Members* - Steel Studs — Not shown - In lieu of Item 2 — For use with Item 1B, proprietary

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

ped steel studs, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv stee

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

ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME Framing System

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME Framing System

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME Framing System

UNITED METAL PRODUCTS INC — Type SUPREME Framing System

Studs cut 3/4 in. less in length than assembly height

CRACO MFG INC — SmarterStud20™, SmartStud20™

PHILLIPS MFG CO L L C — Viper20™

BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263

CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper20™

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

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME Framing System

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

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

 ${f TEMPLE-INLAND}-{f Type}$ TG-C

THAT 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

BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263

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

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. 6A. **Steel Framing Members (Not Shown)*** — As an alternate to Item 6, furring channels and resilient

> 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,

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 (tem 2). Clips spaced max. 48 in. OC. GENIECLIPS secured to studs with No. 8 \times 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

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

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 study 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

10. Lead Discs or Tabs — (Not Shown, For Use With Item 4F) - 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

*Bearing the UL Classification Mark

3/31/2021

Last Updated on 2013-06-07

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BXUV.U906 - Fire-resistance Ratings - ANSI/UL 263 | UL Product iQ

UL Product iQ™ BXUV.U906 - Fire-resistance Ratings - ANSI/UL 263

particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and material 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 rise, 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 a Cludle Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construct hear U.I.S Mark are considered Certified.

> Design No. U906 Bearing Wall Rating — 2 HR.

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variances See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

Nonbearing Wall Rating — 2 HR. This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as

ANCHOR CONCRETE PRODUCTS INC GAGNE & SON CONCRETE BLOCK INC

GLENWOOD MASONRY PRODUCTS Allowable compressive stress of 57% of max allowable compre OLDCASTLE APG SOUTH INC, DBA ADAMS PRODUCTS

Allowable compressive stress of 75.6% of max allowable compressive stress in accordance with the empirical design method.

2. Mortar — Blocks laid in full bed of mortar, nom. 3/8 in. thick, of not less than 2-1/4 and not more than 3-1/2 parts of clean sharp sand to 1 part Portland cement (proportioned by volume) and not more than 50 3. Portland Cement Stucco or Gypsum Plaster — Add 1/2 hr to Classification if used. Attached to concrete blocks (Item 1

4. Foamed Plastic* — (Optional-Not Shown) — 1-1/2 in. thick max, 4 ft wide sheathing attached to concrete blocks (Item 1).

ATLAS ROOFING CORP — "EnergyShield Pro Wall Insulation", "EnergyShield Pro 2 Wall Insulation", EnergyShield CGF Pro and EnergyShield Pro Wall Insulation", EnergyShield Pro Wall Insulation (Item 2). CARLISLE COATINGS & WATERPROOFING INC — Type R2+ SHEATHE

DUPONT DE NEMOURS, INC. — Types Thermax Sheathing. Thermax Light Duty Insulation, Thermax Heavy Duty Insulation, Thermax Metal Building Board, Thermax White Finish Insulation, Thermax of Exterior Insulation, Thermax Metal Building Board, Thermax White Finish Insulation, Thermax of Exterior Insulation, Thermax Metal Building Board, Thermax White Finish Insulation, Thermax of Exterior Insulation, Thermax White Finish Insulation, Thermax Morton Heavy Duty Insulation, Thermax White Finish Insulation, Thermax Morton Heavy Duty Insulation, Thermax Metal Building Board, Thermax White Finish Insulation, Thermax of Exterior Insulation, Thermax White Finish Insulation, Thermax Morton Heavy Duty Insulation, Thermax Metal Building Board, Thermax White Finish Insulation, Thermax of Exterior Insulation, Thermax White Finish Insulation, Thermax Metal Building Board, Thermax White Finish Insulation, Thermax of Exterior Insulation, Thermax White Finish Insulation, Thermax White Finish Insulation, Thermax Morton Heavy Duty Insulation, Thermax White Finish Insul FIRESTONE BUILDING PRODUCTS CO L L C — "Enverge™ CI Foil Exterior Wall Insulation" and "Enverge™ CI Glass Exterior Wall Insulation" HUNTER PANELS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC — Types "Xci-Class A", "Xci 286", "Xci Foil (Class A)" RMAX, A BUSINESS UNIT OF SIKA CORPORATION — Types "TSX-8500", "ECOMAX: FR", "TSX-8510", "ECOMAX: FR White", "ECOMAX: FR Air Barrier", "Thermasheath-XP", "Thermasheath-X" "Durasheath-X" "Thermasheath-X" "Durasheath-X" "Durasheath-X"

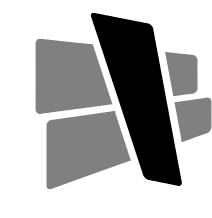
JOHNS MANVILLE — Type "AP Foil-Faced Foam Sheathing" 4A. Building Units* — As an alternate to Item 4, min. 1-in thick polyisocyanurate composite foamed plastic insulation boards, nom. 48 by 48 or 96 in Cookies Settings

COOKINES. APUBIJESS UNIT OF SIKA CORPORATION — "Thermasheath-SI", "ECOBASEd", "ThermaBase-CI", "ECOMAXIC FR Ply", "ECOMAXIC Ply"

Cookies Settings

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PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING C LOT 3

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

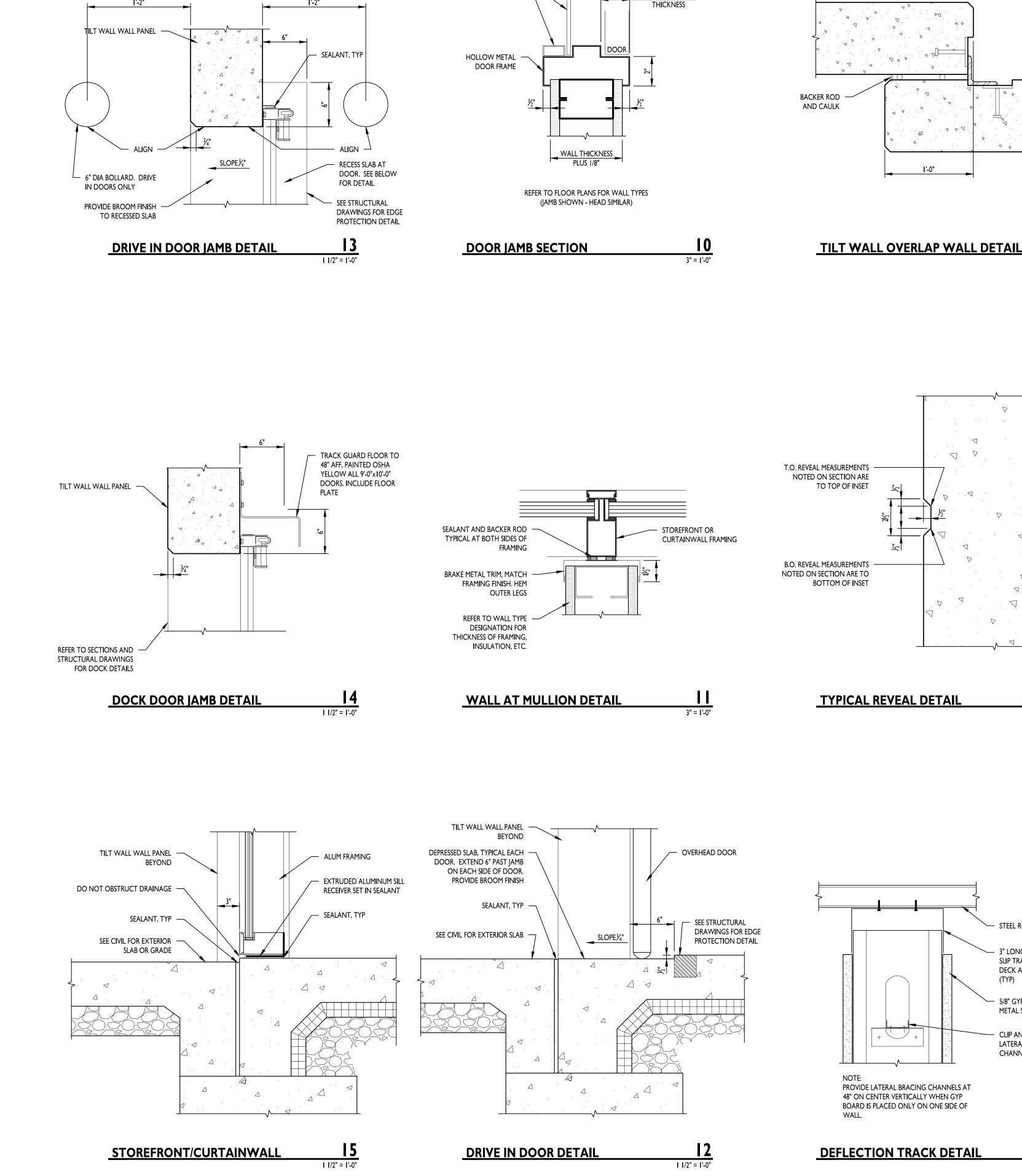
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RATED WALL **INFORMATION**

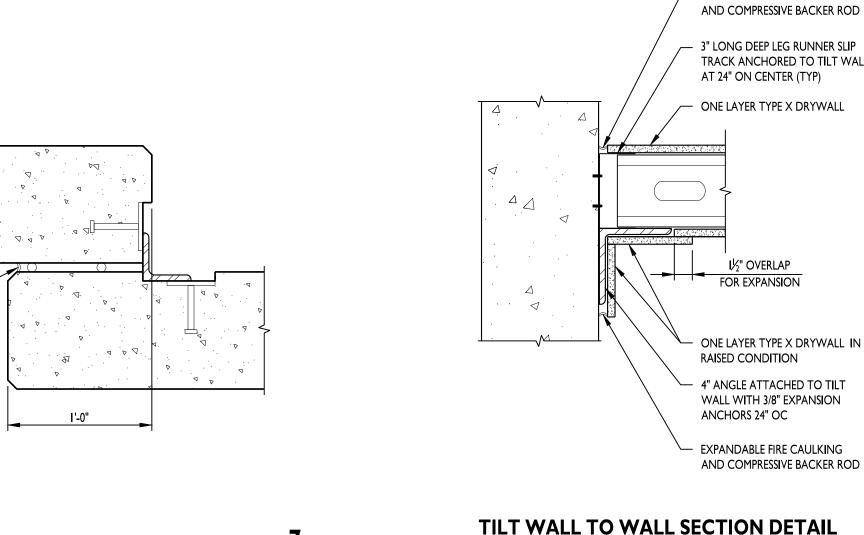
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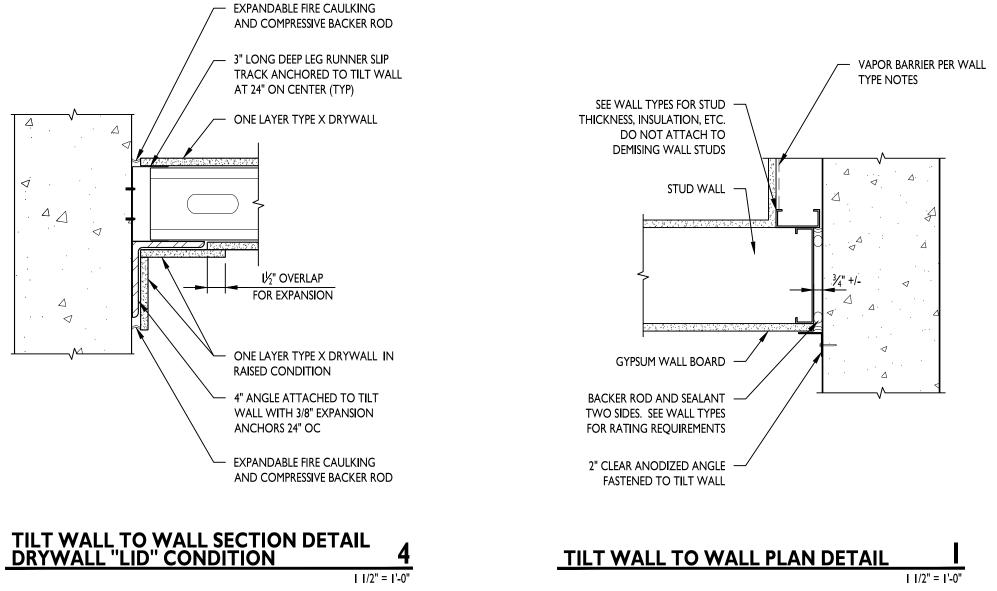


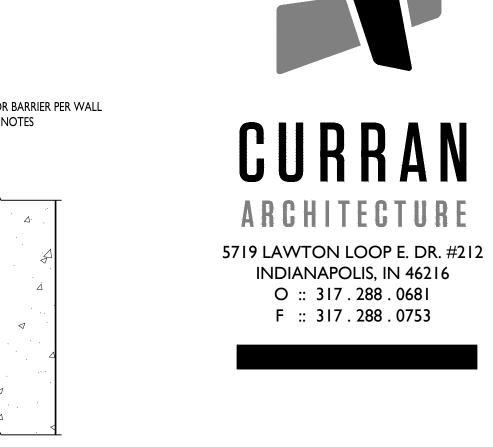
GLAZING & STOP @

BORROWED LIGHTS

BASED ON DOOR









CERTIFICATION

CURRAN

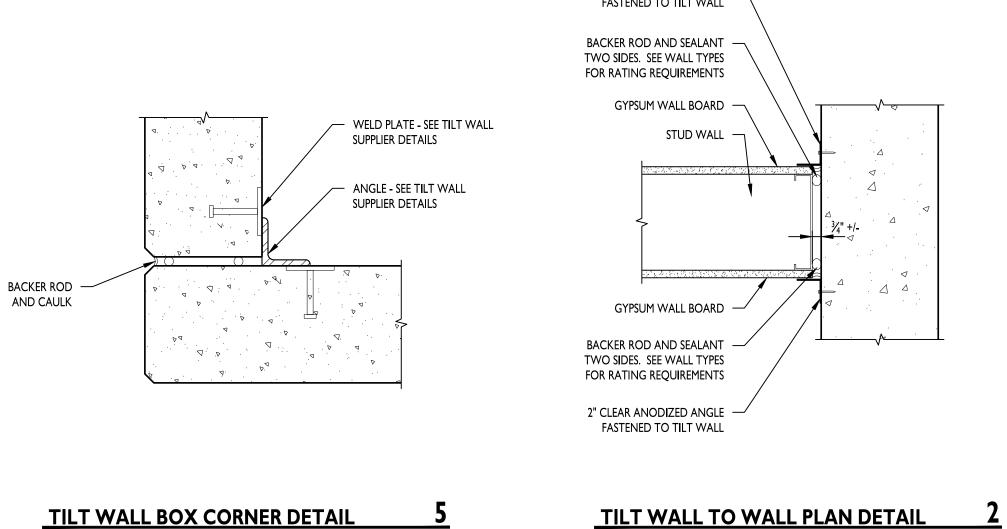
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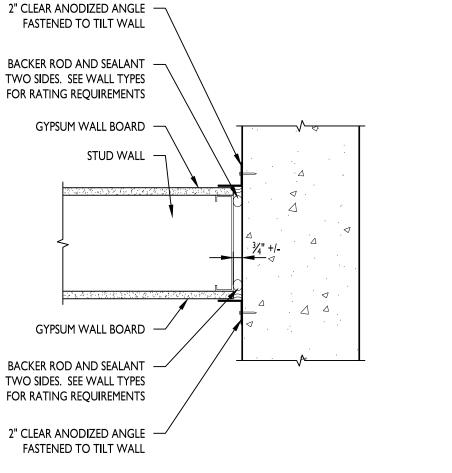
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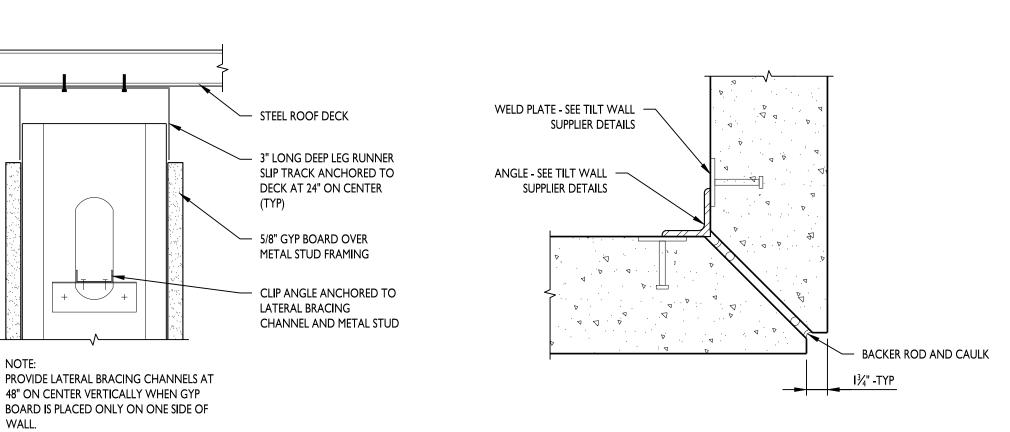
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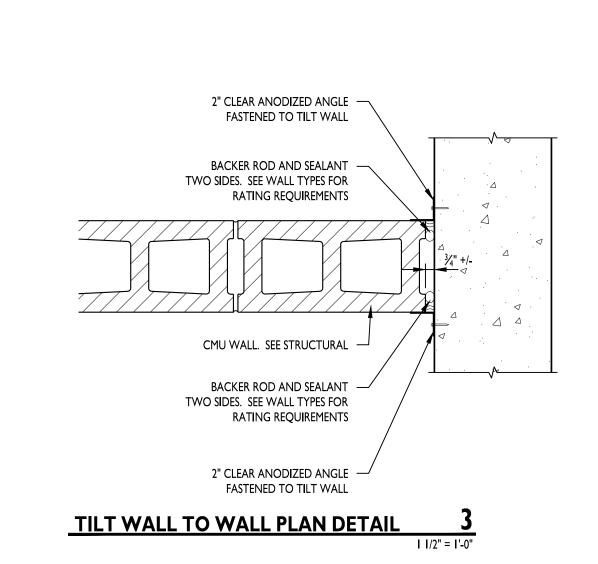


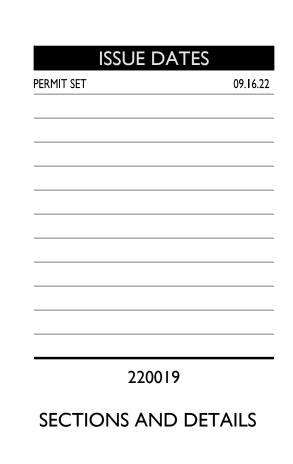


X CORNER OF NE TUDOR RD & MAIN ST LEE'S SUMMIT, MO 64086

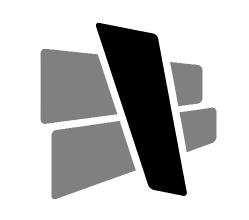


TILT WALL MITER CORNER DETAIL





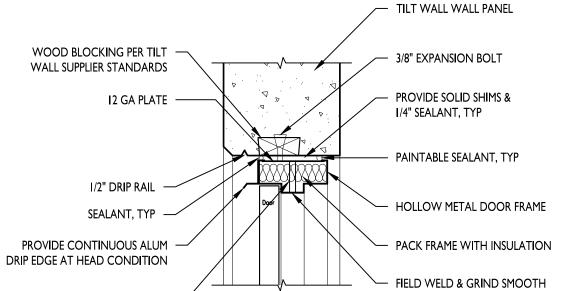
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CERTIFICATION

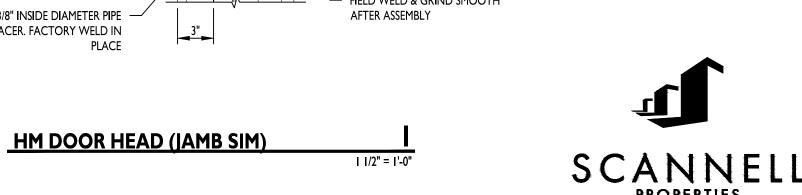


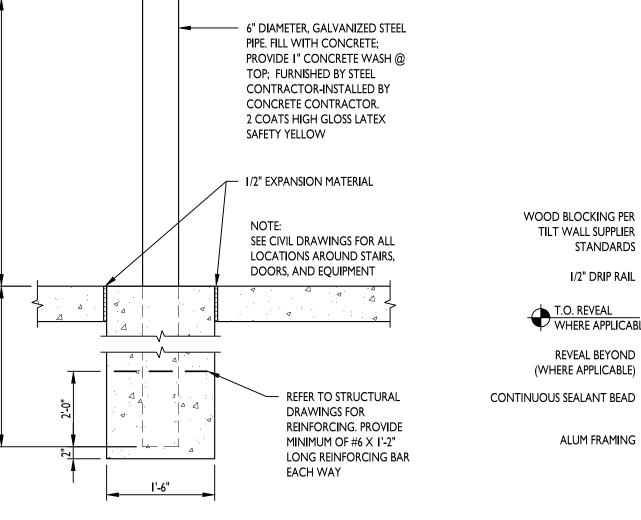
3/8" INSIDE DIAMETER PIPE —

PLACE

SPACER. FACTORY WELD IN







— 6" DIAMETER, 42" TALL PAINTED

STEEL. COLOR SAFETY YELLOW

- EPOXY GROUTED BOLTS ON

8x8 BASE PLATE BY MFR

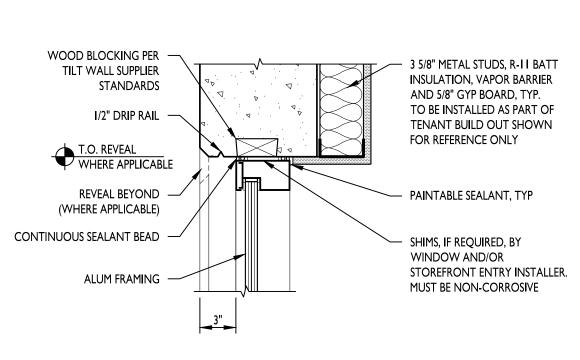
BOLT-DOWN BOLLARD DETAIL

EXTERIOR BOLLARD DETAIL

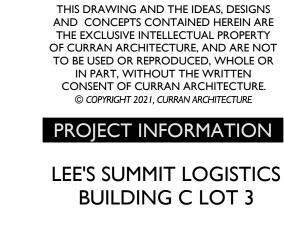
INTERIOR BOLLARD DETAIL

STEEL PIPE BOLLARD. BOLT DOWN

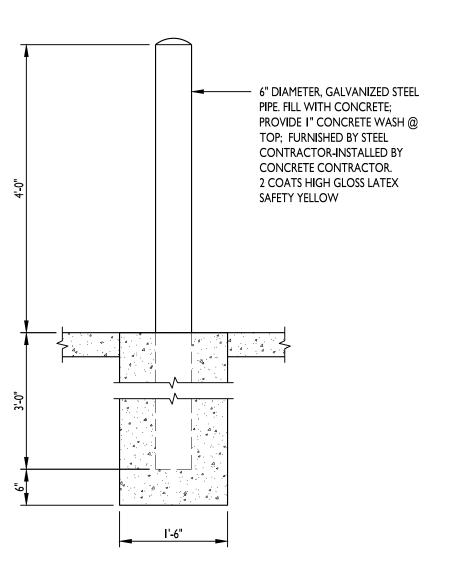
TYPE PRE-MANUFACTURED CARBON

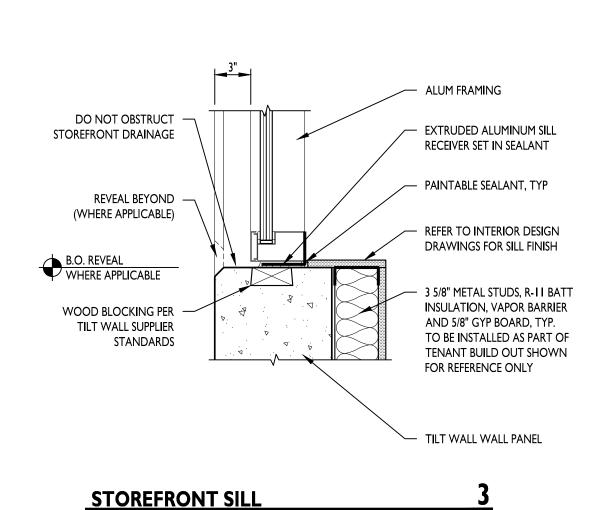


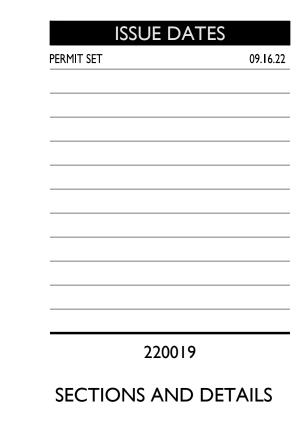
STOREFRONT HEAD (JAMB SIM)

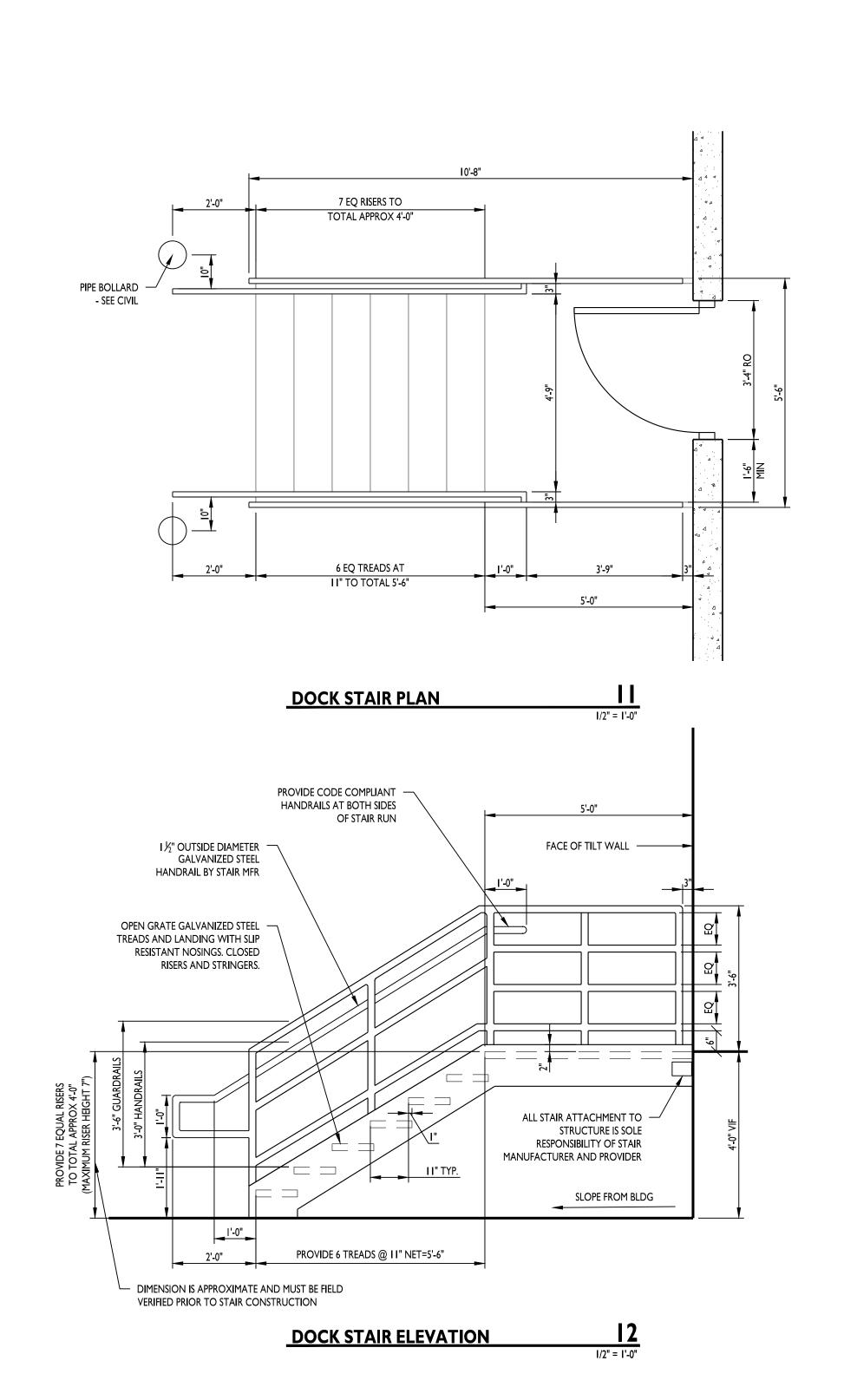


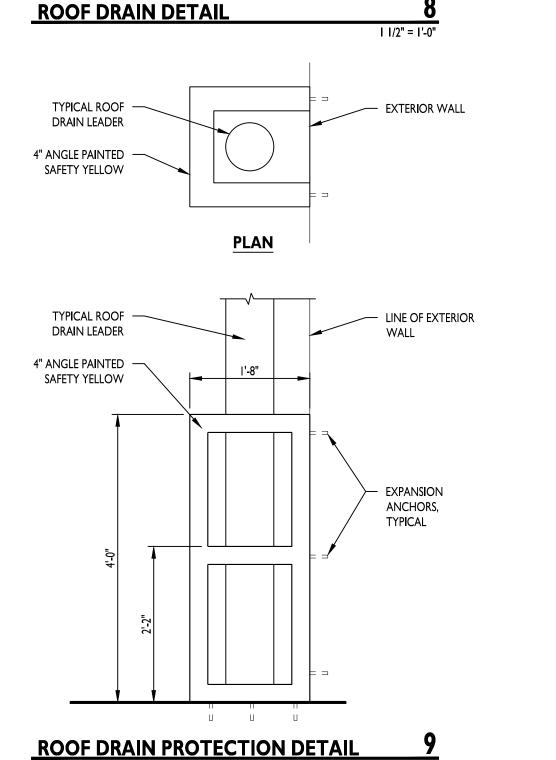
X CORNER OF NE TUDOR RD & MAIN ST LEE'S SUMMIT, MO 64086











 $12\frac{1}{4}$ " x $3\frac{1}{4}$ " (12GA) STEEL W BEAM — HIGHWAY STYLE GUARDRAIL.

SEE PLAN FOR LENGTH

5/8" DIA BOLT (BUTTON

HEAD OVAL SHOULDER)

HEX NUT CUT WASHERS

EPOXY GROUT BOLTS — (TYP 4 PER PLATE)

PRIMARY ROOF DRAIN

INSULATION

PROVIDE ARM-A-FLEX

INSULATION TO

VERTICAL DROP

INSULATION

DECK

BOLT-DOWN GUARDRAIL DETAIL

TYP DOME PER

— 2" RECEIVER

PLUMBING PLANS

FOR 2" RECEIVER

NOTCH INSULATION

INSULATION

INSULATION

DECK

PROVIDE ARM-A-FLEX

INSULATION TO

VERTICAL DROP

W6X15 POST @ 12'-0" OC

CONCRETE FLOOR

WELD TO STEEL BASE PLATE

TYP DOME PER

— 2" RECEIVER

INSULATION

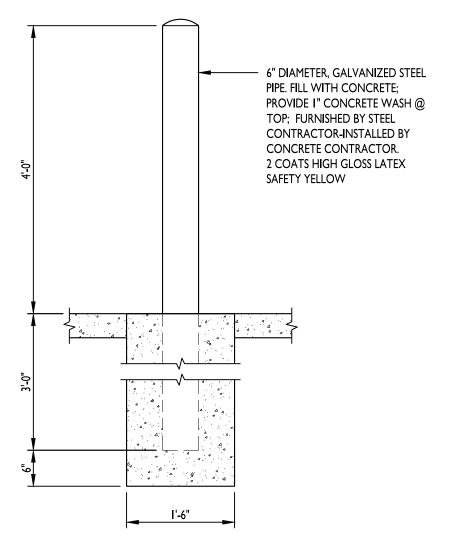
INSULATION

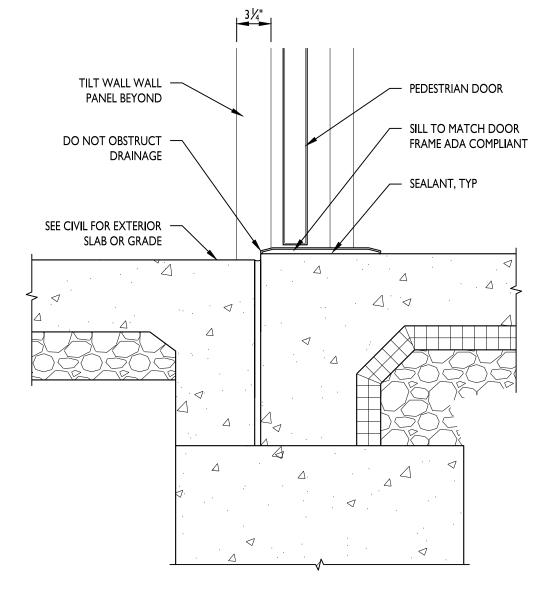
DECK

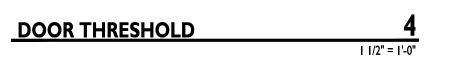
PLUMBING PLANS

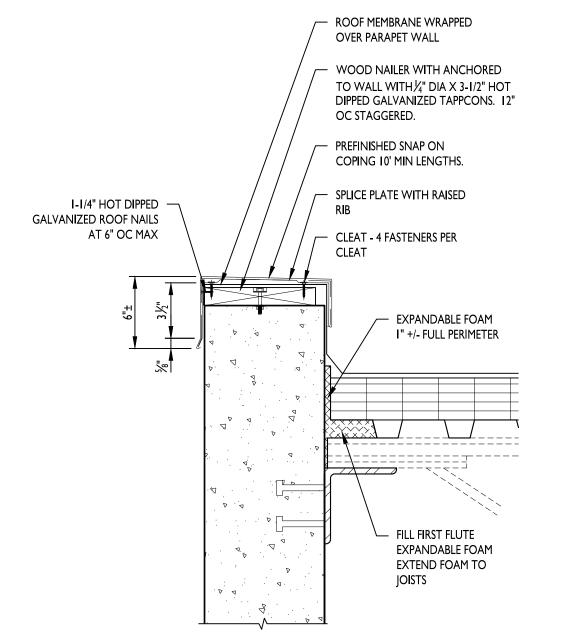
NOTCH INSULATION

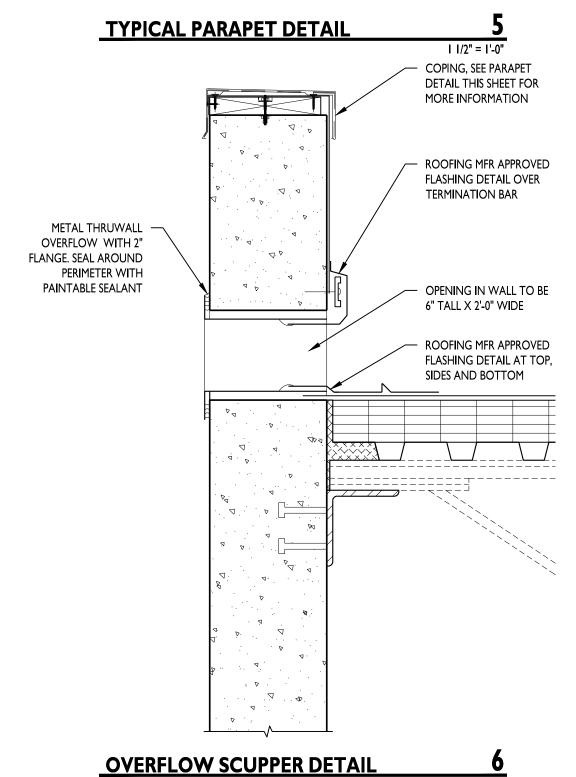
FOR 2" RECEIVER

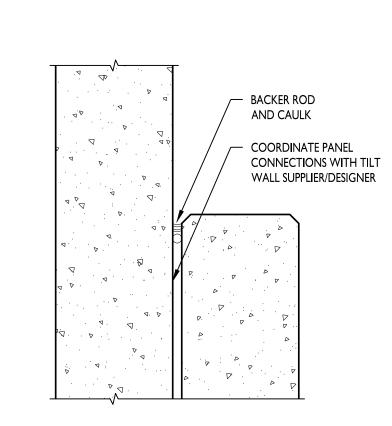






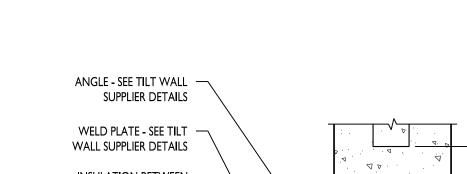


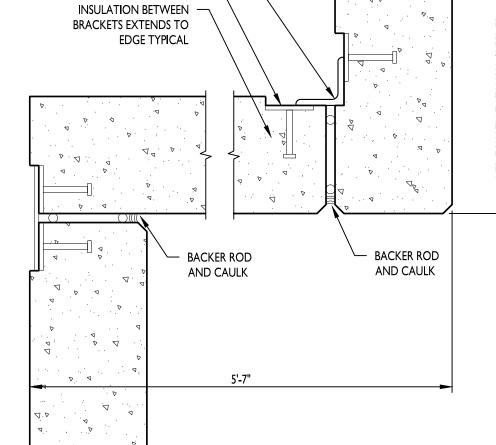




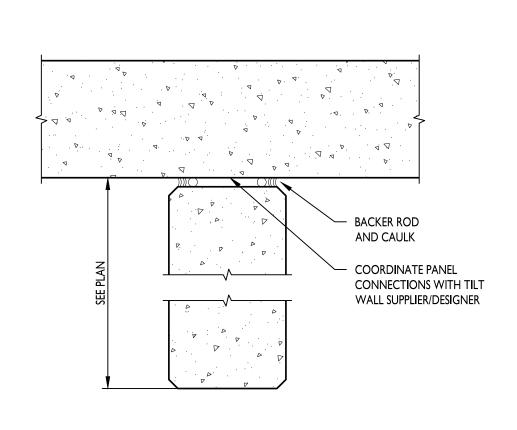
1 1/2" = 1'-0"







TILT WALL PLAN DETAIL



TILT WALL PLAN DETAIL



GURRAN ARCHITECTURE

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





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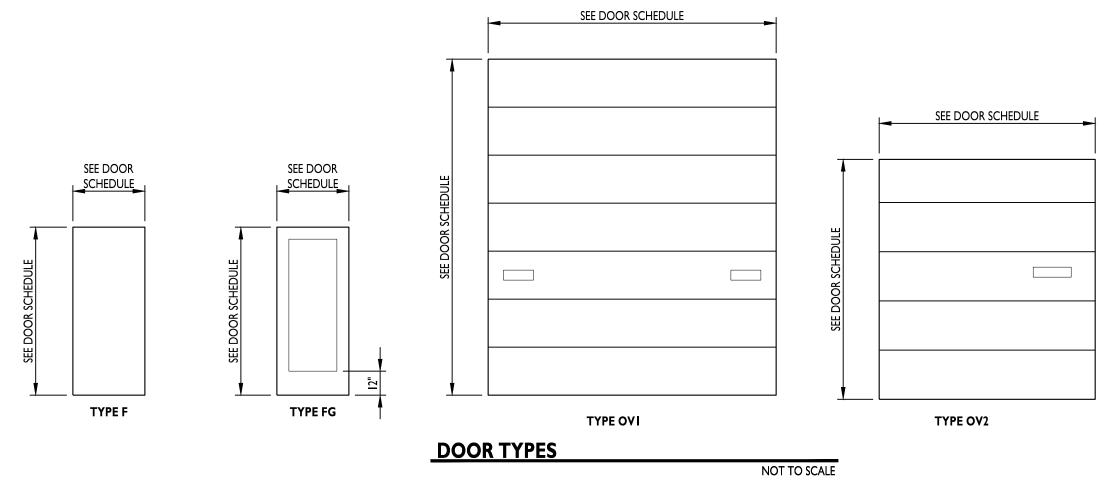
PROJECT INFORMATION

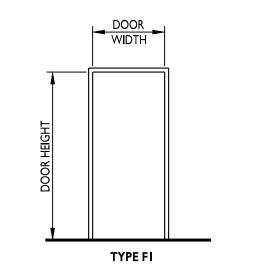
LEE'S SUMMIT LOGISTICS BUILDING C LOT 3

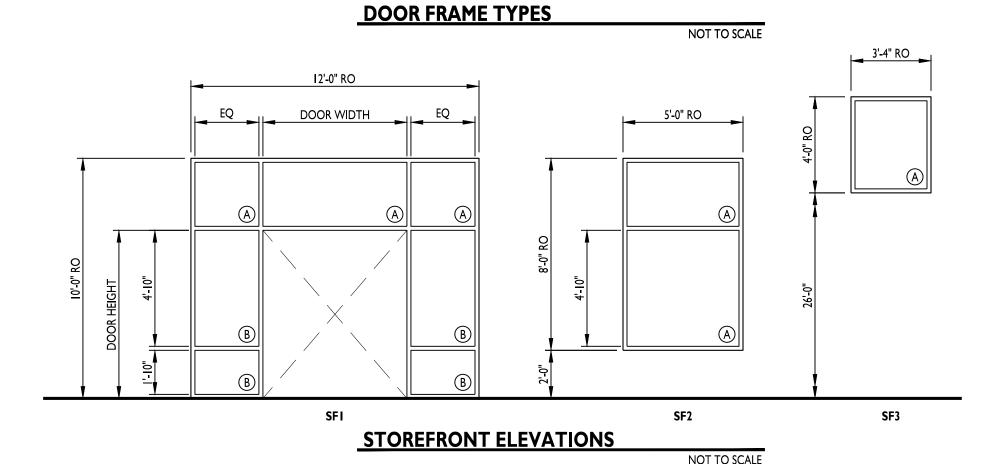
X CORNER OF NE TUDOR RD & MAIN ST LEE'S SUMMIT, MO 64086

ISSUE D	
PERMIT SET	09.1
2200)19
SECTIONS AN	ID DETAILS

A503







	DOOR SCHEDULE											
MARK	DOOR	SIZE	MATERIAL	GLAZING	FINISH	RATING	FRAME	MATERIAL	FINISH	RATING	HARDWARE	REMARKS
101	OVI	12-0 × 14-0	INSUL STL	В	PREFINISHED	-	BY MFR	BY MFR	BY MFR	-	BY MFR	
102	F	3-0 × 7-0	INSUL STL	-	PAINT	-	FI	НМ	PAINT	-	2	
103	OV2	9-0 × 10-0	INSUL STL	В	PREFINISHED	-	BY MFR	BY MFR	BY MFR	-	BY MFR	
104	OV2	9-0 × 10-0	INSUL STL	В	PREFINISHED	-	BY MFR	BY MFR	BY MFR	-	BY MFR	
105	OV2	9-0 × 10-0	INSUL STL	В	PREFINISHED	-	BY MFR	BY MFR	BY MFR	-	BY MFR	
106	OV2	9-0 × 10-0	INSUL STL	В	PREFINISHED	-	BY MFR	BY MFR	BY MFR	-	BY MFR	
107	F	3-0 × 7-0	INSUL STL	-	PAINT	-	FI	НМ	PAINT	-	2	
108	OV2	9-0 × 10-0	INSUL STL	В	PREFINISHED	-	BY MFR	BY MFR	BY MFR	-	BY MFR	
109	OV2	9-0 × 10-0	INSUL STL	В	PREFINISHED	-	BY MFR	BY MFR	BY MFR	-	BY MFR	
110	OV2	9-0 × 10-0	INSUL STL	В	PREFINISHED	-	BY MFR	BY MFR	BY MFR	-	BY MFR	
III	OV2	9-0 × 10-0	INSUL STL	В	PREFINISHED	-	BY MFR	BY MFR	BY MFR	-	BY MFR	
112	OV2	9-0 × 10-0	INSUL STL	В	PREFINISHED	_	BY MFR	BY MFR	BY MFR	<u>-</u>	BY MFR	
113	F	3-0 × 7-0	INSUL STL	<u>-</u>	PAINT	_	FI	НМ	PAINT	_	2	
114	OV2	9-0 x 10-0	INSUL STL	В	PREFINISHED	_	BY MFR	BY MFR	BY MFR		BY MFR	
115	OV2	9-0 x 10-0	INSUL STL	В	PREFINISHED	-	BY MFR	BY MFR	BY MFR	<u>-</u>	BY MFR	
		9-0 x 10-0 9-0 x 10-0			PREFINISHED					<u>-</u>		
116	OV2		INSUL STL	В		-	BY MFR	BY MFR	BY MFR	-	BY MFR	
117	OV2	9-0 x 10-0	INSUL STL	В	PREFINISHED	-	BY MFR	BY MFR	BY MFR	-	BY MFR	
118	F	3-0 x 7-0	INSUL STL	-	PAINT	-	FI	НМ	PAINT	-	2	
119	OVI	12-0 X 14-0	INSUL STL	В	PREFINISHED	-	BY MFR	BY MFR	BY MFR	-	BY MFR	
120	F	3-6 x 7-0	INSUL STL	-	PAINT	-	FI	НМ	PAINT	-	3	
121	OVI	12-0 X 14-0	INSUL STL	В	PREFINISHED	-	BY MFR	BY MFR	BY MFR	-	BY MFR	
122	F	3-0 × 7-0	INSUL STL	-	PAINT	-	FI	НМ	PAINT	-	2	
123	OV2	9-0 × 10-0	INSUL STL	В	PREFINISHED	-	BY MFR	BY MFR	BY MFR	-	BY MFR	
I24	OV2	9-0 × 10-0	INSUL STL	В	PREFINISHED	-	BY MFR	BY MFR	BY MFR	-	BY MFR	
125	OV2	9-0 x 10-0	INSUL STL	В	PREFINISHED	-	BY MFR	BY MFR	BY MFR	-	BY MFR	
126	OV2	9-0 × 10-0	INSUL STL	В	PREFINISHED	-	BY MFR	BY MFR	BY MFR	-	BY MFR	
127	F	3-0 × 7-0	INSUL STL	-	PAINT	-	FI	НМ	PAINT	-	2	
128	OV2	9-0 × 10-0	INSUL STL	В	PREFINISHED	-	BY MFR	BY MFR	BY MFR	-	BY MFR	
129	OV2	9-0 × 10-0	INSUL STL	В	PREFINISHED	-	BY MFR	BY MFR	BY MFR	-	BY MFR	
130	OV2	9-0 × 10-0	INSUL STL	В	PREFINISHED	-	BY MFR	BY MFR	BY MFR	-	BY MFR	
131	OV2	9-0 × 10-0	INSUL STL	В	PREFINISHED	-	BY MFR	BY MFR	BY MFR	-	BY MFR	
132	OV2	9-0 × 10-0	INSUL STL	В	PREFINISHED	-	BY MFR	BY MFR	BY MFR	-	BY MFR	
133	F	3-0 × 7-0	INSUL STL	-	PAINT	-	FI	НМ	PAINT	-	2	
134	OV2	9-0 × 10-0	INSUL STL	В	PREFINISHED	-	BY MFR	BY MFR	BY MFR	-	BY MFR	
135	OV2	9-0 × 10-0	INSUL STL	В	PREFINISHED	-	BY MFR	BY MFR	BY MFR	<u>-</u>	BY MFR	
136	OV2	9-0 x 10-0	INSUL STL	В	PREFINISHED	-	BY MFR	BY MFR	BY MFR	<u>-</u>	BY MFR	
137	OV2	9-0 x 10-0	INSUL STL	В	PREFINISHED	-	BY MFR	BY MFR	BY MFR	-	BY MFR	
138	F	3-0 × 7-0	INSUL STL	_	PAINT	-	FI	НМ	PAINT	<u>-</u>	2	
139	OVI	12-0 X 14-0	INSUL STL	В	PREFINISHED	-	BY MFR	BY MFR	BY MFR	<u>-</u>	BY MFR	
I40	F	3-0 × 7-0	INSUL STL	-	PAINT	-	FI	НМ	PAINT	-	2	
141	FG	(2) 3-0 × 7-0	ALUM	В	CLEAR ANOD	-	SFI	ALUM	CLEAR ANOD	<u>-</u>	1	
142	F	3-0 × 7-0	INSUL STL	<u>-</u>	PAINT	_	FI	НМ	PAINT	-	2	
143	, F	3-0 x 7-0	INSUL STL		PAINT	_	FI	HM	PAINT	<u>-</u>	2	
143 	FG	3-0 x 7-0 (2) 3-0 x 7-0	ALUM	В	CLEAR ANOD		SFI	ALUM	CLEAR ANOD		1	
										-	1	
145	F	3-0 x 7-0	INSUL STL	-	PAINT	-	FI	НМ	PAINT	-	2	
146	F	3-0 x 7-0	INSUL STL	-	PAINT	-	FI	HM	PAINT	-	2	
147	FG -	(2) 3-0 x 7-0	ALUM	В	CLEAR ANOD	-	SFI	ALUM	CLEAR ANOD	-	1	
148	F	3-0 x 7-0	INSUL STL	-	PAINT	-	FI	HM	PAINT	-	2	
I49	F	3-0 x 7-0	INSUL STL	-	PAINT	-	FI	НМ	PAINT	-	2	
150	FG	(2) 3-0 x 7-0	ALUM	В	CLEAR ANOD	-	SFI	ALUM	CLEAR ANOD	-	1	
151	F	3-0 × 7-0	INSUL STL	-	PAINT	-	FI	HM	PAINT	-	2	

I. ALUMINUM STOREFRONT FRAMING WITH DOOR. DOOR IS RESPONSIBILITY OF ALUMINUM STOREFRONT FRAMING MANUFACTURER AND MUST BE SIZED TO FIT INTO FRAMING AS DETAILED. PROVIDE WIDE STILE DOOR, WITH MINIMUM 10" BOTTOM RAIL FOR ADA COMPLIANCE.

- 2. SEE STOREFRONT ELEVATIONS FOR FRAME INFORMATION.
- 3. PROVIDE INSULATED STEEL DOOR AND FRAME. PAINT TO MATCH ADJACENT MATERIALS. COLOR TO BE SELECTED BY ARCHITECT.
- 4. PROVIDE AUTOMATIC OPENER. COORDINATE WITH ENGINEERING DRAWINGS FOR POWER.
- 5. GLAZING IN EXTERIOR DOOR TO BE TEMPERED INSULATED GLASS SIMILAR TO GLAZING TYPE 1b.
- 6. REFER TO SHEET A502 FOR TYPICAL HOLLOW METAL HEAD/JAMB DETAIL.
- 7. REFER TO SHEET A501 FOR TYPICAL OVERHEAD DOOR JAMB DETAIL.
- 8. REFER TO A502 FOR TYPICAL STOREFRONT HEAD/JAMB DETAIL.

GENERAL DOOR AND GLAZING NOTES

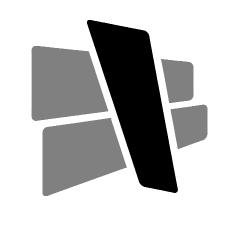
- A. ALL PRE-FINISHED WOOD DOORS SHALL BE SOLID CORE WITH WOOD VENEER, MARSHFIELD OR EQUIVALENT. PROVIDE FINISH SAMPLE AND DOOR CONSTRUCTION DIAGRAM FOR APPROVAL AND HARDWARE BLOCKING COORDINATION. VENEER TO BE WHITE BIRCH OR MAPLE, FREE OF DARK GRAINS UNLESS OTHERWISE NOTED.
- B. WOOD DOORS SHALL ONLY BE INSTALLED IN CONDITIONED
- C. ALL HARDWARE TO BE MINIMUM 6 PIN BEST COMPATIBLE SYSTEM. COORDINATE KEYING WITH OWNER.
- D. TEMPERED AND ANNEALED GLASS TO BE CLEANED PER MANUFACTURER REQUIREMENTS. NYLON CLOTH METHODS PREFERRED. DO NOT USE RAZOR BLADES ON GLASS.
- E. GLASS AROUND DOORS AND IN DOORS SHALL BE TEMPERED UNLESS OTHERWISE NOTED IN ELEVATIONS.
- F. ANY RATED DOORS TO HAVE LABEL INSTALLED IN JAMB. G. ALL EXITS DOORS TO HAVE TACTILE EXIT SIGNAGE PER 703.4 OF THE ANSI 117.1 2009.
- H. INSTALL OWNER PROVIDED ADA COMPLIANT RESTROOM SIGNAGE, VERIFY WITH ARCHITECT.

GLAZING TYPES

- A. SECTION OF GLAZING REQUIRED TO BE I" INSULATED GREY TINTED GLASS.
- B. SECTION OF GLAZING REQUIRED TO BE I" INSULATED TEMPERED
- 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 I" 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



ARCHITECTURE

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



DOOR HARDWARE

HARDWARE 2 CONTINUOUS HINGES

- 2 PANIC DEVICES
- I PERIMETER SEAL I THRESHOLD
- 2 SWEEPS
- 2 HD CLOSERS
- 2 PULLS FINISH: MATCH STOREFRONT

HARDWARE SET 2

3 BALL BEARING HINGES I PANIC DEVICE W/ LEVER

I PERIMETER SEAL THRESHOLD W/ DRAINAGE

I SWEEP I HD CLOSER

I DRIP TRIM FINISH: US26D

HARDWARE SET 3

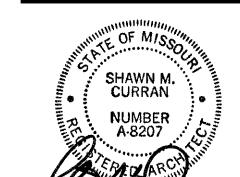
3 BALL BEARING HINGES I STOREROOM LOCKSET I PERIMETER SEAL

THRESHOLD W/ DRAINAGE SUBSILL

I SWEEP I HD CLOSER

I DRIP TRIM FINISH: US26D

HARDWARE	CERTIFICATION
E SET I	William OF MICHAEL



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PROJECT INFORMATION

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LEE'S SUMMIT LOGISTICS BUILDING C LOT 3

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

PERMIT SET 09.10		

220019

DOOR AND FINISH **SCHEDULE**

			DESIGN	I PARAME	TERS
1.	BUII	LDING (CODE		2018 INTERNATIONAL BUILDING CODE (IBC)
	000	CUPANC	Y CATEGORY		Ш
2.	LIVE	E LOAD!	S		
	A.	ROOF	- NON-REDUCIBLE		20 PSF
	В.	SLAB-	-ON-GRADE		350 PSF
3.	ROC		W LOAD		
	A.		ND SNOW LOAD, Pg		20 PSF
	В.		ROOF SNOW LOAD, Pf		20 PSF
	C.		EXPOSURE FACTOR, Ce		1.0
	D		LOAD IMPORTANCE FACTOR, I		1.0
	E. _		MAL FACTOR, Ct (BUILDING)		1.0
	F.		DRIFT		PER REFERENCED CODE
4.			GN DATA		400 NBU
	Α.		ATE WIND SPEED (3 SECOND GUST),	V	109 MPH
	В.		IMPORTANCE FACTOR, I		1.00
	C.		EXPOSURE CATEGORY		C
	D.		VAL PRESSURE COEFFICIENT, Gcpi		+/- 0.18
	E.		N WIND PRESSURE ON COMPONENTS	• •	
		1)	WALLS (500 SQUARE FEET EFFECTIVE TABLE TO SQUARE FEET EFFECTIVE TO SQUARE FEET EFFET E	E WIND AREA)	27.7.005
			END ZONES		23.7 PSF
		٥)	INTERIOR ZONES	WWW. AREA FOR REOLE	23.7 PSF
		2)	ROOF (10 SQUARE FEET EFFECTIVE	WIND AREA FOR DECK	·
			CORNER ZONES		89.1 PSF
			END ZONES INTERIOR ZONE 1		65.4 PSF 49.6 PSF
			INTERIOR ZONE 1		28.5 PSF
	F.	WIDTL	OF END ZONES, a		28.5 PSF 18.9 FT
5.			(E DESIGN DATA		10.5 11
٥.	A.		IC IMPORTANCE FACTOR, I		1.0
	л. В.		ED SPECTRAL RESPONSE ACCELERATION)N Ss	9.9 %
	C.		ED SPECTRAL RESPONSE ACCELERATION		6.8 %
	D.	SITE (,	C
	E.		RAL RESPONSE COEFFICIENT, Sds		0.086
	F.		RAL RESPONSE COEFFICIENT, Sd1		0.068
	G.	SEISM	IC DESIGN CATEGORY		В
	Н.	STRUC	TURAL SYSTEM (DUAL SYSTEM)		
		1)	BASIC SEISMIC FORCE-RESISTING SY	STEM TYPE	H. STEEL SYSTEM
		2)	VERTICAL ELEMENT TYPE		STEEL SYSTEM NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE
		3)	BASIC SEISMIC FORCE-RESISTING SY	STEM 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		3
	J.	•	SIS PROCEDURE	5 17.010K, K	EQUIVALENT LATERAL FORCE
6.		AD LOA			EXCIPALENT ENTENDE TONOL
		•			

<u>GENERAL</u>

A. EPDM MEMBRANE

B. RIGID INSULATION

D. LIGHTS, PLUMBING, & HVAC

H. TOTAL DEAD LOAD ON JOISTS

J. TOTAL DEAD LOAD ON COLUMNS

C. ROOF DECK

E. SPRINKLERS

F. STEEL JOISTS

G. STEEL GIRDERS

- 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
- 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

- 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. 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

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

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

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%.
- 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.
- 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.
- 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.
- 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.
- "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
- 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

0.3 PSF

0.7 PSF

2.0 PSF

3.0 PSF

2.0 PSF

2.0 PSF

2.0 PSF

10.0 PSF

12.0 PSF

- 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

- 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.
- 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.
- 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 RFVIFW.
- 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

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

		YIELD	ASTM SPECIFICATION
A.	W, WT SHAPES:	50 KSI	A992
В.	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.
- 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).
- 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.
- WELDS NOT SPECIFICALLY SIZED ON THE STRUCTURAL DRAWINGS SHALL BE THE MINIMUM SIZE PER THE LATEST AWS
- 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
- 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.
- 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

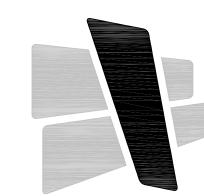
STEEL JOISTS

- 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
- 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.
- 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.
- 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
- 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
- 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

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



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

ISSUE DATES	
ISSUE	DAT
ISSUE FOR PERMIT	05.06.202
ISSUE FOR PERMIT	08.15.202

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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.
- 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 1548)
- 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)

<u>MASONRY</u>

- 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 REVIEWS
- 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

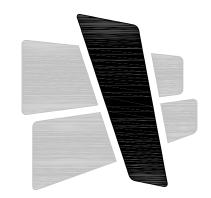
- THE OWNER SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PROVIDE INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED IN THE STATEMENT OF SPECIAL INSPECTIONS PER SECTION 1704 OF THE IBC. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF 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	LBS.	POUNDS
A.B.	ANCHOR BOLTS	LDS. LLH	LONG LEG HORIZONTAL
A.B. ACI	AMERICAN CONCRETE INSTITUTE	LLV	LONG LEG VERTICAL
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL	LONG.	LONGITUDINAL
ALSS A.F.F.	ABOVE FINISHED FLOOR	MAX.	MAXIMUM
ARCH.	ARCHITECTURAL	MECH.	MECHANICAL
BAL.	BALANCE	MFR.	MANUFACTURER
B.L.	BLOCK LINTEL	MIN.	MINIMUM
	BUILDING	MISC.	MISCELLANEOUS
BLDG.	BOTTOM OF	N.I.C.	NOT IN CONTRACT
B.O.		NO.	NUMBER
B.O.D.	BOTTOM OF DECK	N.T.S.	NOT TO SCALE
BRG.	BEARING CONTRACTION FIGURE	N.S.	NEAR SIDE
C.J.	CONTRACTION JOINT		
C.L.	CENTER LINE	0.C.	ON CENTER OUTSIDE DIAMETER
CLR.	CLEAR	O.D.	OPPOSITE HAND
CMU	CONCRETE MASONRY UNIT	O.H.	
COL.	COLUMN	P.A.F.	POWER ACTUATED FASTENER
CONC.	CONCRETE	PCF	POUNDS PER CUBIC FOOT
CONST.	CONSTRUCTION	PLF	
CONT.	CONTINUOUS	P.M.E.J.	PREMOLDED EXPANSION JOINT
D.B.A.	DEFORMED BAR ANCHOR	PSF	POUNDS PER SQUARE FOOT
DIA.	DIAMETER	PSI OTD	POUNDS PER SQUARE INCH
DWG.	DRAWING	QTY.	QUANTITY
E.F.	EACH FACE	RE:	REFER
E.J.	EXPANSION JOINT	REINF.	REINFORCING
ELEV.	ELEVATION	REQD.	REQUIRED
E.O.D.	EDGE OF DECK	R.O.	ROUGH OPENING
E.O.S.	EDGE OF SLAB	RTU	ROOF TOP UNIT
EQ.	EQUAL	SCHED.	SCHEDULE
E.W.	EACH WAY	S.D.S.	
EXIST.	EXISTING	SIM.	SIMILAR
FDN.	FOUNDATION	SPECS.	SPECIFICATIONS
F.F.E.	FINISHED FLOOR ELEV.	STD.	STANDARD
F.S.	FAR SIDE	STL.	STEEL
FTG.	FOOTING	T&B	TOP AND BOTTOM
GA.	GAGE	T.O.	TOP OF
GALV.	GALVANIZED	T.O.P.	TOP OF PIER
G.B.	GRADE BEAM	T.O.W.	TOP OF WALL
HORIZ.	HORIZONTAL	TRANS.	TRANSVERSE
H.S.A.	HEADED STUD ANCHOR	TYP.	TYPICAL
IBC	INTERNATIONAL BUILDING CODE	U.N.O.	UNLESS NOTED OTHERWISE
INFO.	INFORMATION	VERT.	VERTICAL
J.B.E.	JOIST BEARING ELEVATION	W.P.	WORK POINT
JT.	JOINT	WT.	WEIGHT
K	UNIT OF 1,000 POUNDS (KIP)	W.W.R.	WELDED WIRE REINFORCEMENT

KIPS PER SQUARE INCH

ARREVIATIONS

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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PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING C LOT 3

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

ISSUE DATES

ISSUE DATE

ISSUE FOR PERMIT 05.06.2022

ISSUE FOR PERMIT 08.15.2022

210300

S0.1



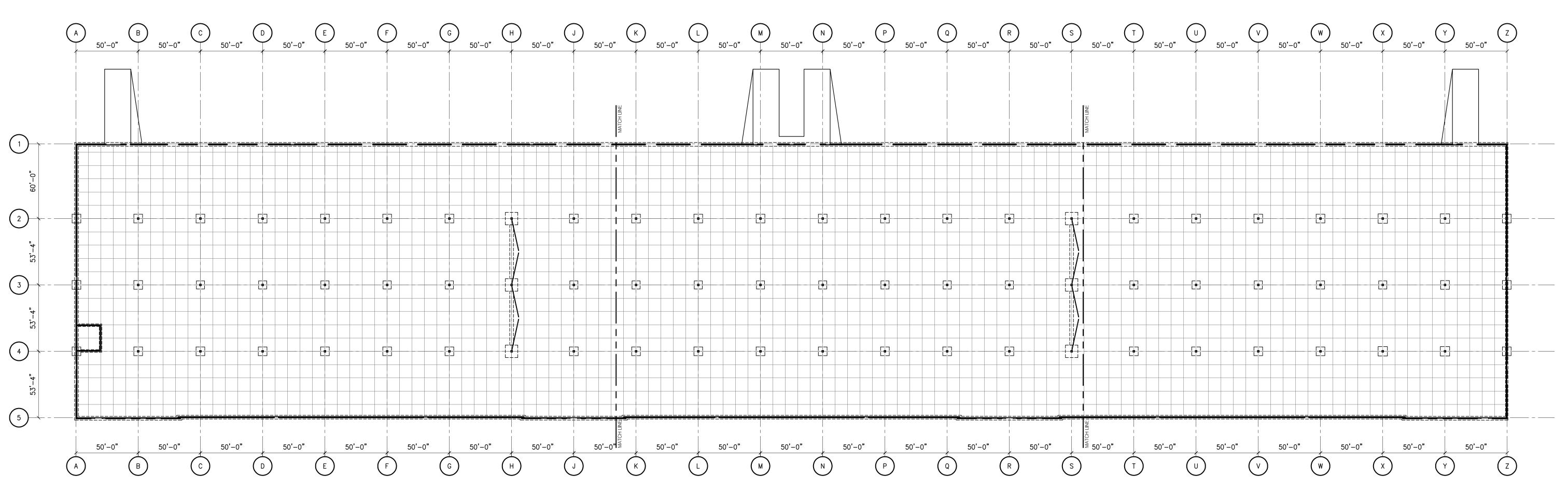
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SCANNELI

wallace

Wallace Engineering Structural Consultants, Inc.

Structural and Civil Consultants



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PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS

BUILDING C LOT 3

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

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

ISSUE	DAT
ISSUE FOR PERMIT	05.06.202
ISSUE FOR PERMIT	08.15.202

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. TOP OF FOOTING ELEV. = 99'-0, UNLESS NOTED OTHERWISE.
 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:

LOCATIONS.

- DRAIN BLOCKOUT IN FOOTING, RE: 10&11/S3.0 DOCK PIT, RE: 5/S3.2. RE: ARCH. FOR
- 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

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

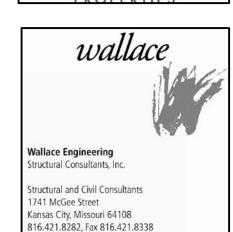
SF	POT FOOTIN	NG SCHEDULE
MARK	SIZE	REINFORCEMENT
M7.0	7'-0"x7'-0"x2'-6"	NO REINF. REQUIRED
F6.5	6'-6x6'-6"x1'-3"	(6)-#6 EA. WAY
F7.0	7'-0"x7'-0"x1'-3"	(7)-#6 EA. WAY
F10.0	10'-0"x10'-0"x3'-0"	(10)-#7 EA. WAY, TOP AND BOTTO
F10.0B	10'-0"x10'-0"x3'-0"	RE: 6/S3.3

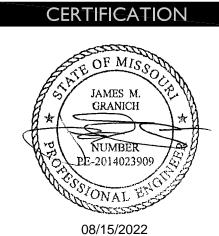
NOTE: PROVIDE f'c=4,000 PSI AT FOOTING TYPE F10.0 AND F10.0B



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Missouri COA #001268

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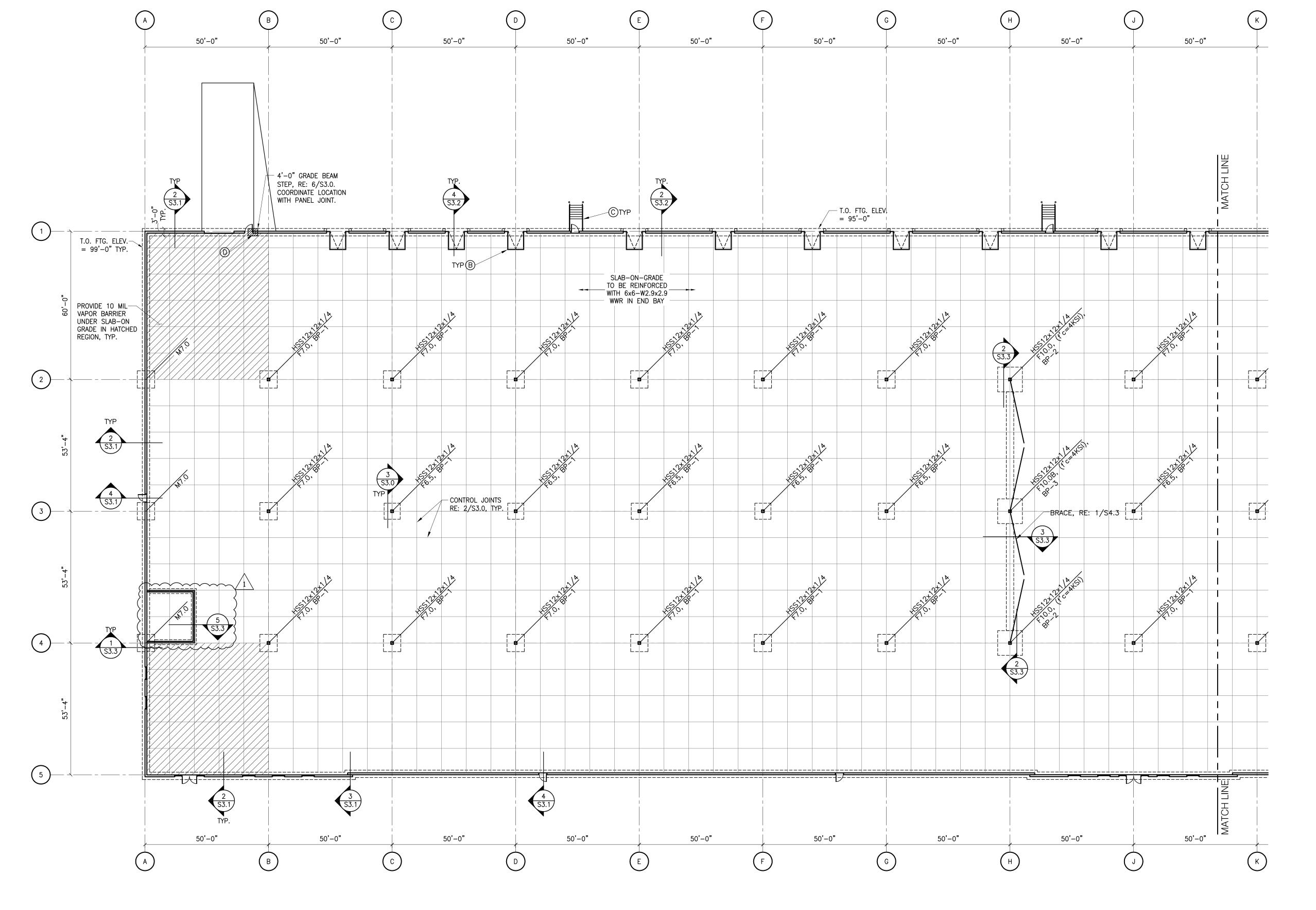
LEE'S SUMMIT LOGISTICS BUILDING C LOT 3

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

ISSUE	DAT
ISSUE FOR PERMIT	05.06.202
ISSUE FOR PERMIT	08.15.2022

210300

ENLARGED PARTIAL 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 SELED 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.
- TOP OF FOOTING ELEV. = 99'-0, UNLESS NOTED OTHERWISE.
 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)
 RE: 1/S3.0 FOR REINFORCING LAP SCHEDULE.
 RE: SUIET S7.0 FOR ADDITIONAL CONCRETE FOUNDATION DETAIL
- RE: SHEET S3.0 FOR ADDITIONAL CONCRETE FOUNDATION DETAILS 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.

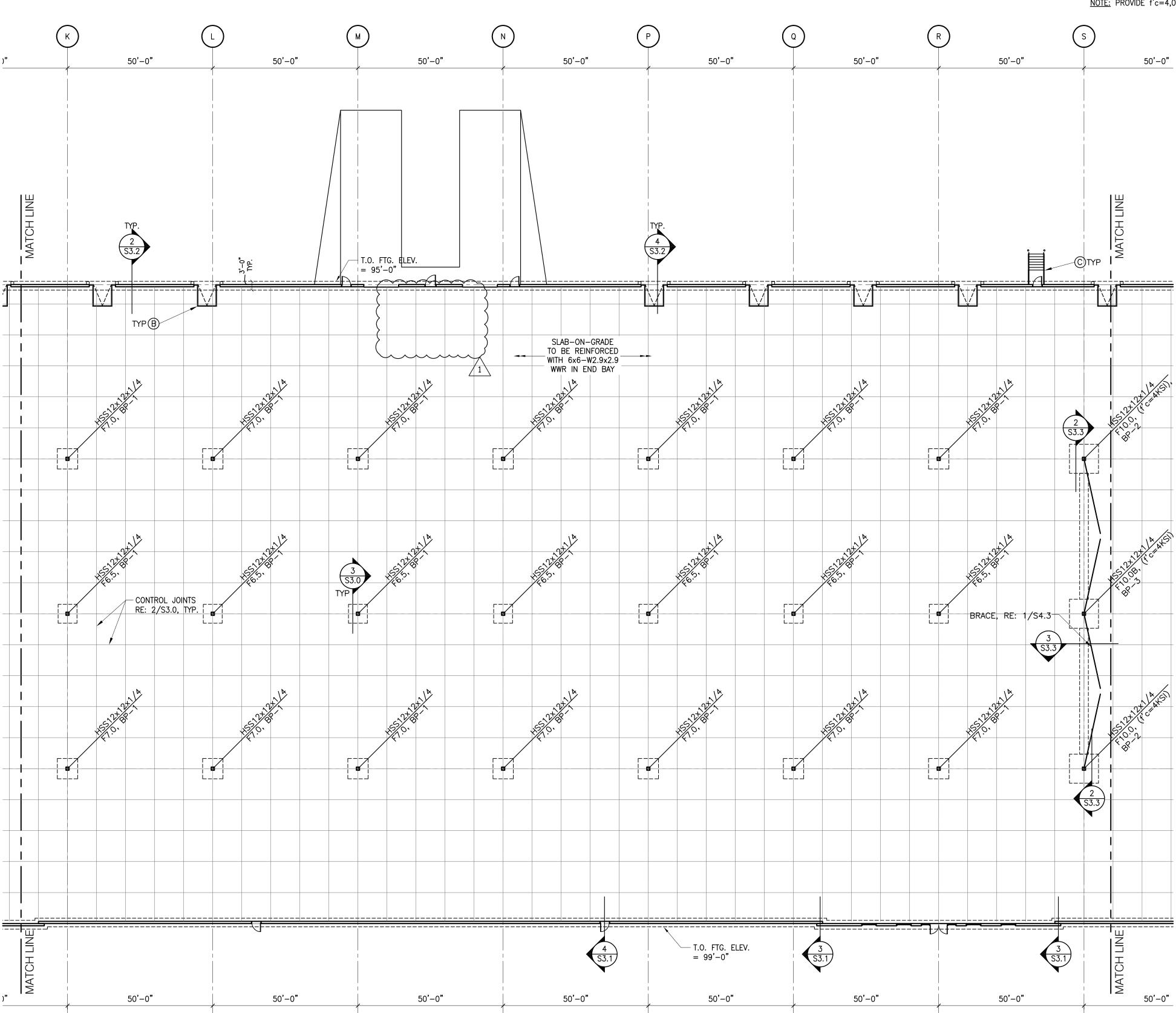
 © DOCK STAIRS RE: 1/S3.1. REFER TO ARCH DWGS FOR LOCATIONS AND TYPE OF STAIR
- FOOTING STEP, RE: 6/S3.0RAMP, RE: CIVIL DWGS.

LEGEND

- 1. F# = FOOTING MARK; RE: FOOTING SCHEDULE
 2. C.L = SAW CLIT CONTROL JOINT: RE: DETAIL 2/53
- 2. C.J. = SAW CUT CONTROL JOINT; RE: DETAIL 2/S3.0 3. B.P. = BASE PLATE; RE: DETAIL 9/S3.0

SF	POT FOOTIN	NG SCHEDULE	OTING
MARK	SIZE	REINFORCEMENT	
M7.0	7'-0"x7'-0"x2'-6"	NO REINF. REQUIRED	'x2'-6"
F6.5	6'-6x6'-6"x1'-3"	(6)-#6 EA. WAY	×1'-3"
F7.0	7'-0"x7'-0"x1'-3"	(7)-#6 EA. WAY	'x1'-3"
F10.0	10'-0"x10'-0"x3'-0"	(10)-#7 EA. WAY, TOP AND BOT)"x3'-0" (10)·
F10.0B	10'-0"x10'-0"x3'-0"	RE: 6/S3.3)"x3'-0"

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





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JAMES M. GRANICH NUMBER PE-2014023909

08/15/2022 Missouri COA #001268

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PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING C LOT 3

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

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ISSUE FOR PERMIT	05.06.202
ISSUE FOR PERMIT	08.15.202

210300

S1.2
ENLARGED PARTIAL FOUNDATION PLAN

PLAN NOTES:

- 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. 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.
- TOP OF FOOTING ELEV. = 99'-0, UNLESS NOTED OTHERWISE. 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) RE: 1/S3.0 FOR REINFORCING LAP SCHEDULE.
- RE: SHEET S3.0 FOR ADDITIONAL CONCRETE FOUNDATION DETAILS

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.

<u>LEGEND</u>

- 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 M7.0 NO REINF. REQUIRED 7'-0"x7'-0"x2'-6" F6.5 6'-6x6'-6"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 AND BOTTOM F10.0B 10'-0"x10'-0"x3'-0" RE: 6/S3.3

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



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CERTIFICATION GRANICH NUMBER

08/15/2022 Missouri COA #001268

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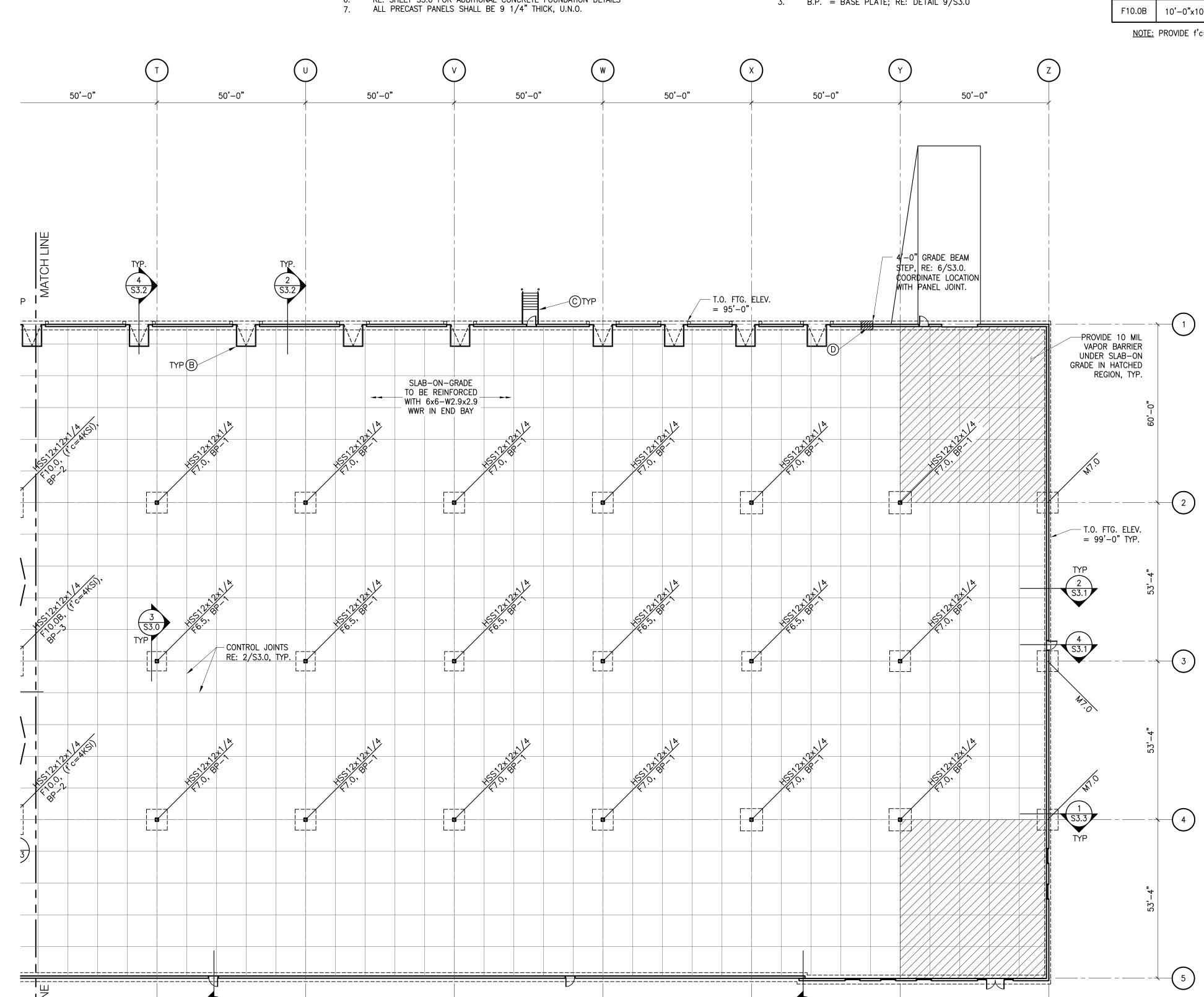
LEE'S SUMMIT LOGISTICS **BUILDING C LOT 3**

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

ISSUE	DATI
ISSUE FOR PERMIT	05.06.2022
ISSUE FOR PERMIT	08.15.2022

210300

S1.3 ENLARGED PARTIAL FOUNDATION PLAN



50'-0"

W

50'-0"

50'-0"

50'-0"

50'-0"

50'-0"

50'-0"



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CERTIFICATION OF MISSOLVE JAMES M. GRANICH NUMBER PE-2014023909

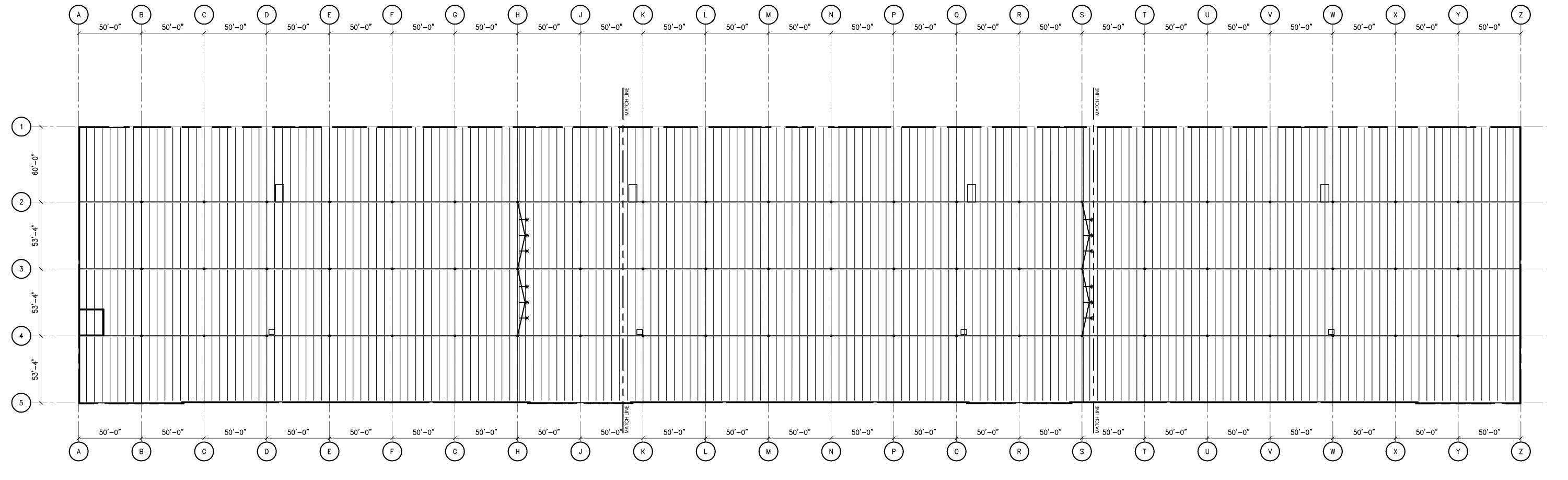
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LEE'S SUMMIT LOGISTICS BUILDING C LOT 3

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



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

05.06.2
08.15.2
00.10.2

210300

S2.0
OVERALL FRAMING PLAN

PLAN REFERENCE NOTES:

PROVIDE 20 GA — DECK IN HATCHED REGION, TYP.

- 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.

50'-0**"**

/36LH (2\p0/12\b)

50'-0"

PLAN NOTES

50'-0**"**

- 1. ALL EDGE ANGLES SHALL BE CONTINUOUS AND SPLICED PER 6/S4.0.
- VERIFY ALL WALL OPENING, DIMENSIONS, JOINTS, BLOCKOUTS, REVEALS AND FUTURE KNOCK OUT PANELS WITH ARCHITECTURAL DRAWINGS.
- 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)
- ROOF DECK AND ROOF DECK ATTACHMENT SHALL BE PER SHEET S2.5.
- RE: 3 AND 4/S4.1 FOR ADDITIONAL PRECAST PANEL CONNECTION DETAILS
- 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

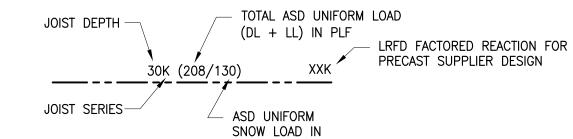
50'-0"

50'-0"

50'-0"

SHOWN ON PLAN IN JOIST DESIGN. 7. JOIST AND JOIST GIRDER DEPTHS SHALL BE LIMITED SO THAT 32'-0" CLEAR HEIGHT TO BOTTOM OF STRUCTURE IS MAINTAINED

JOIST LEGEND



PLF

JOIST GIRDER LEGEND

GIRDER WEB -

50'-0"

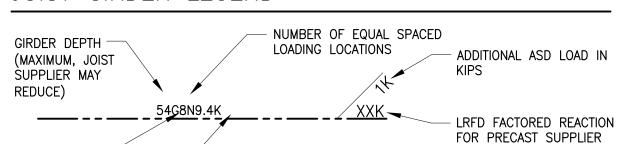
30K (188/125)

30K (188/125)

50'-0"

CONFIGURATION

50'-0"



_ ASD LOAD IN KIPS AT EACH

50'-0"

LOADING LOCATION

oʻ III

36LH (188/125)

40G8N10.7K 40G8N10.7K 40G8N10.7K 40G8N10.7K 40G8N10.7K 40G8N10.7K 40G8N10.7K 40G8N10.7K

DESIGN

50'-0"

50'-0"

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

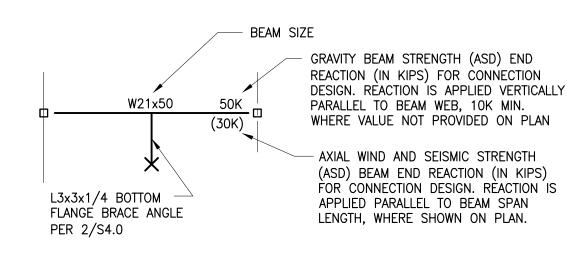
USE MINIMUM TWO BOLT CONNECTION

50'-0"

BOTTOM FLANGE BRACE AT 1/4 PTS RE: 2/S4.0

BOTTOM FLANGE BRACE AT 1/4 PTS RE: 2/S4.0

BEAM REACTION LEGEND



50'-0"

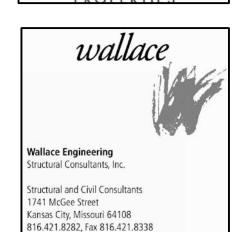
5 S4.1



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F :: 317 . 288 . 0753





CERTIFICATION



Missouri COA #001268

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PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING C LOT 3

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

> 05.06.2022 08.15.2022

ISSUE DA
ISSUE
ISSUE FOR PERMIT
ISSUE FOR PERMIT
210300
S2.1
ENLARGED PARTI
FRAMING PLAN

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

50'-0"

50'-0"

50'-0"

50'-0"

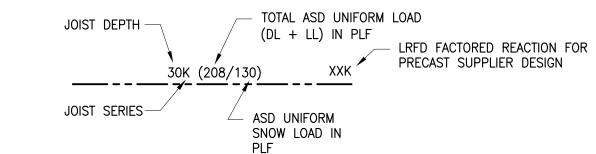
PLAN REFERENCE NOTES:

- ROOF HATCH, RE: ARCH. PROVIDE ANGLE FRAME AT OPENING, RE: 8/S4.0
- JOIST SUPPLIER SHALL DESIGN JOISTS FOR AXIAL LOAD SHOWN.
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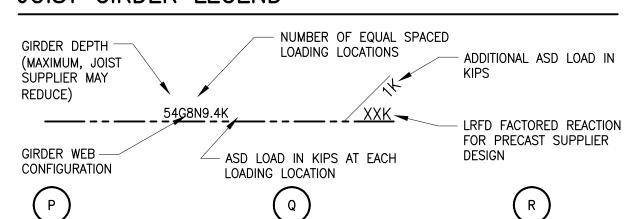
<u>PLAN NOTES</u>

- 1. ALL EDGE ANGLES SHALL BE CONTINUOUS AND SPLICED PER 6/S4.0.
 - VERIFY ALL WALL OPENING, DIMENSIONS, JOINTS, BLOCKOUTS, REVEALS AND FUTURE KNOCK OUT PANELS WITH ARCHITECTURAL DRAWINGS.
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JOIST LEGEND



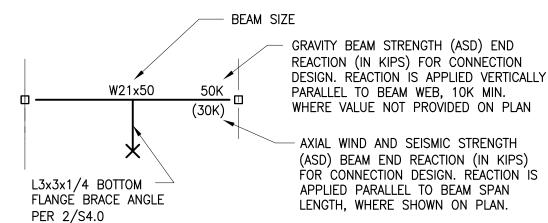
JOIST GIRDER LEGEND

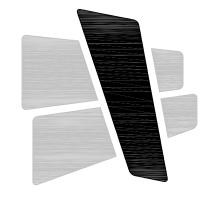


BEAM REACTION LEGEND

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

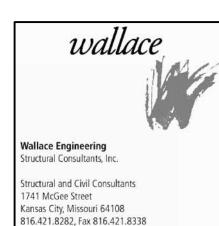
USE MINIMUM TWO BOLT CONNECTION





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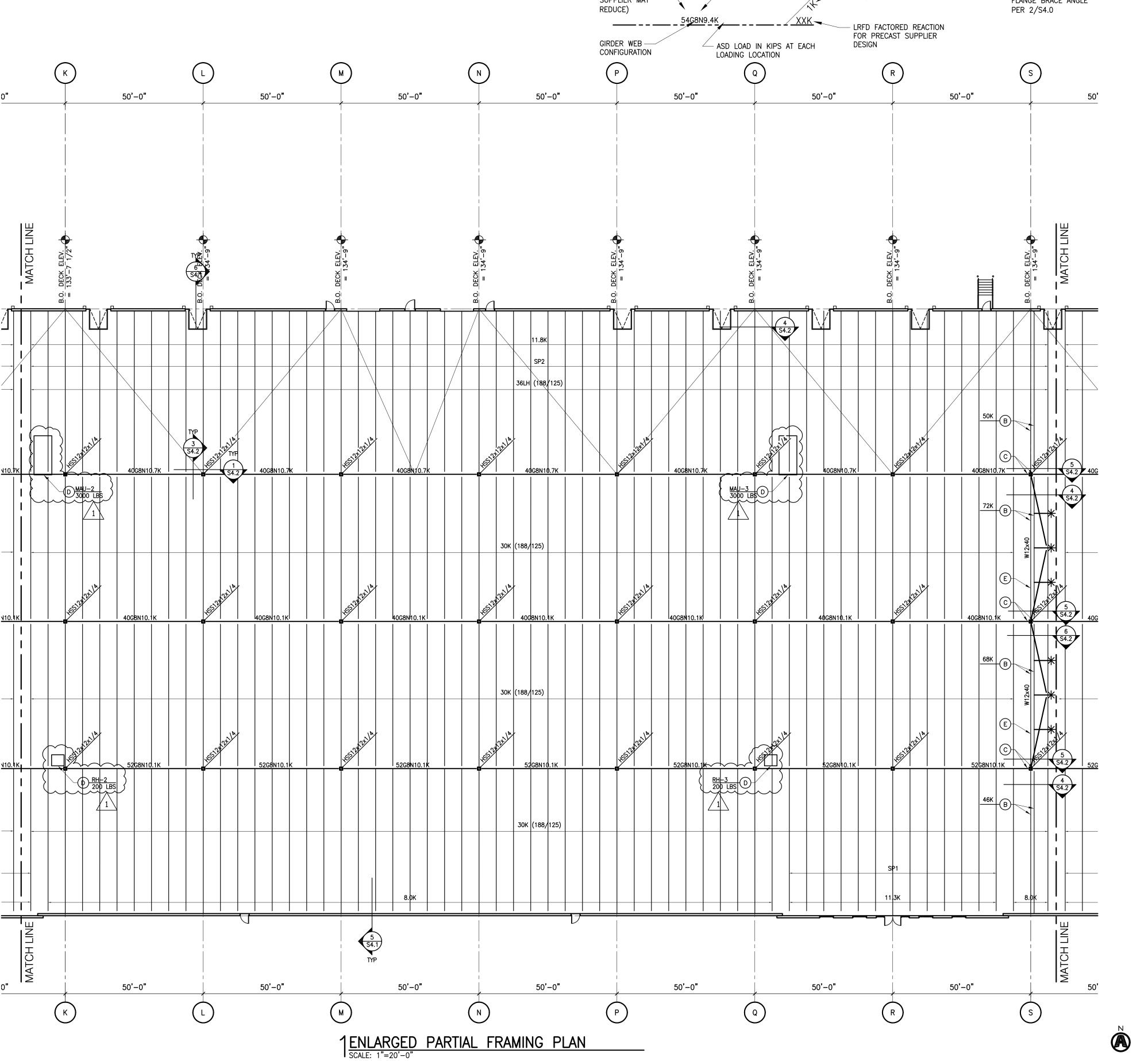
LEE'S SUMMIT LOGISTICS BUILDING C LOT 3

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

ISSUE	DAT
ISSUE FOR PERMIT	05.06.202
ISSUE FOR PERMIT	08.15.202

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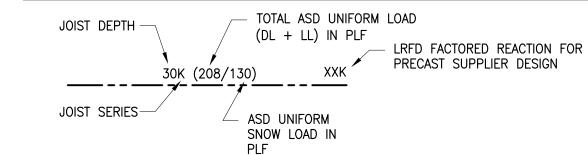
PLAN REFERENCE NOTES:

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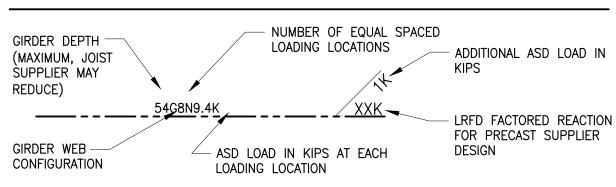
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JOIST LEGEND



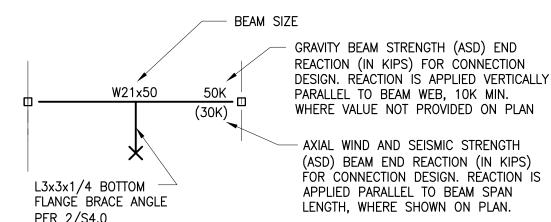
JOIST GIRDER LEGEND

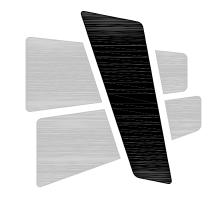


BEAM REACTION LEGEND

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USE MINIMUM TWO BOLT CONNECTION





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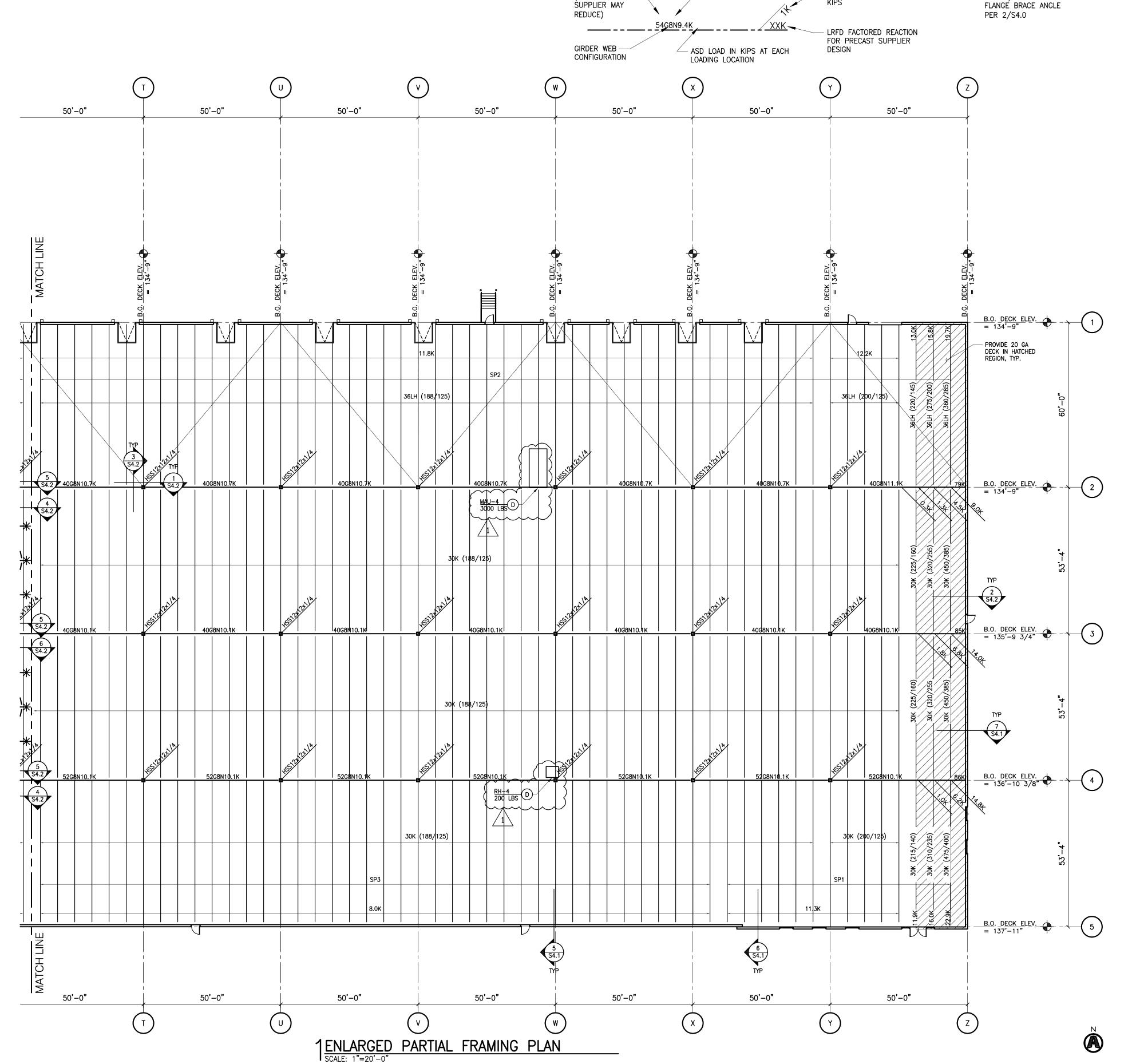
LEE'S SUMMIT LOGISTICS BUILDING C LOT 3

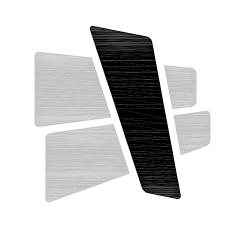
NW CORNER TUDOR RD & MAINST LEE'S SUMMIT, MO

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ISSUE FOR PERMIT	05.06.2022
ISSUE FOR PERMIT	08.15.2022

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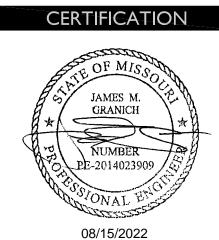




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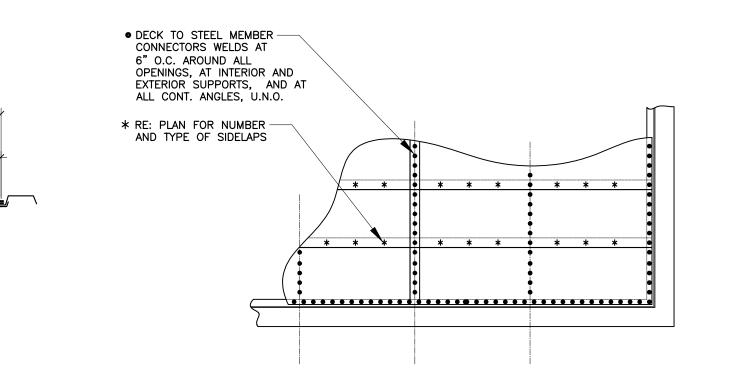
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Missouri COA #001268
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LEE'S SUMMIT LOGISTICS BUILDING C LOT 3

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

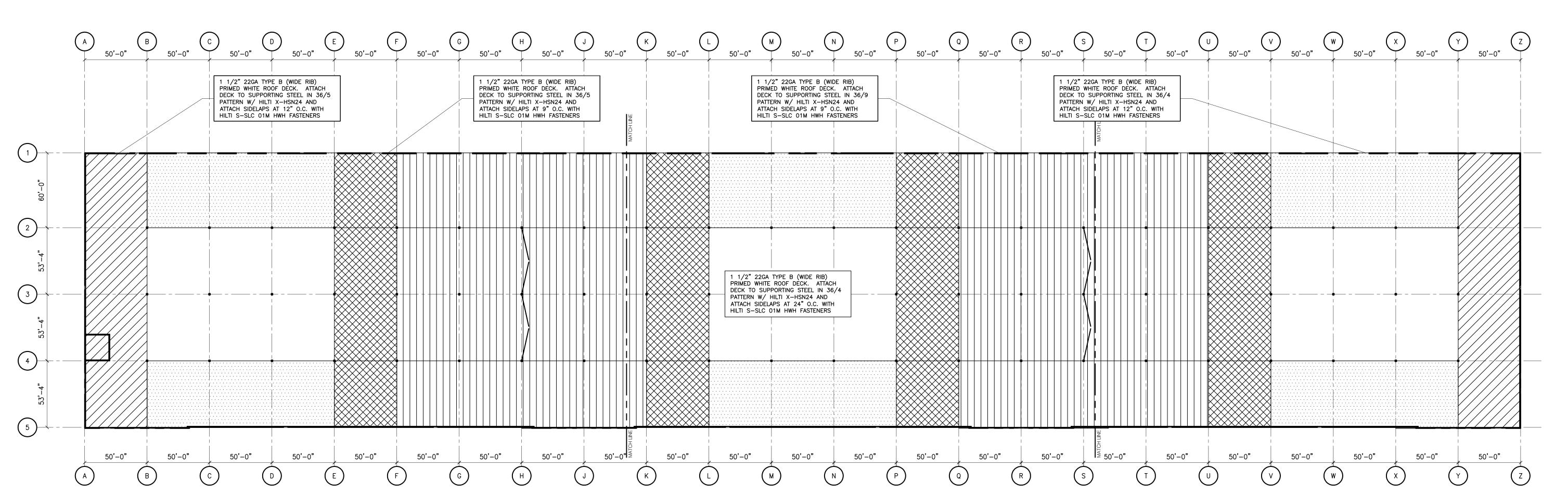


ROOF DIAPHRAGM CONNECTION DIAGRAM

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.



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

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S2.4
ROOF DECK ATTACHMENT
PLAN

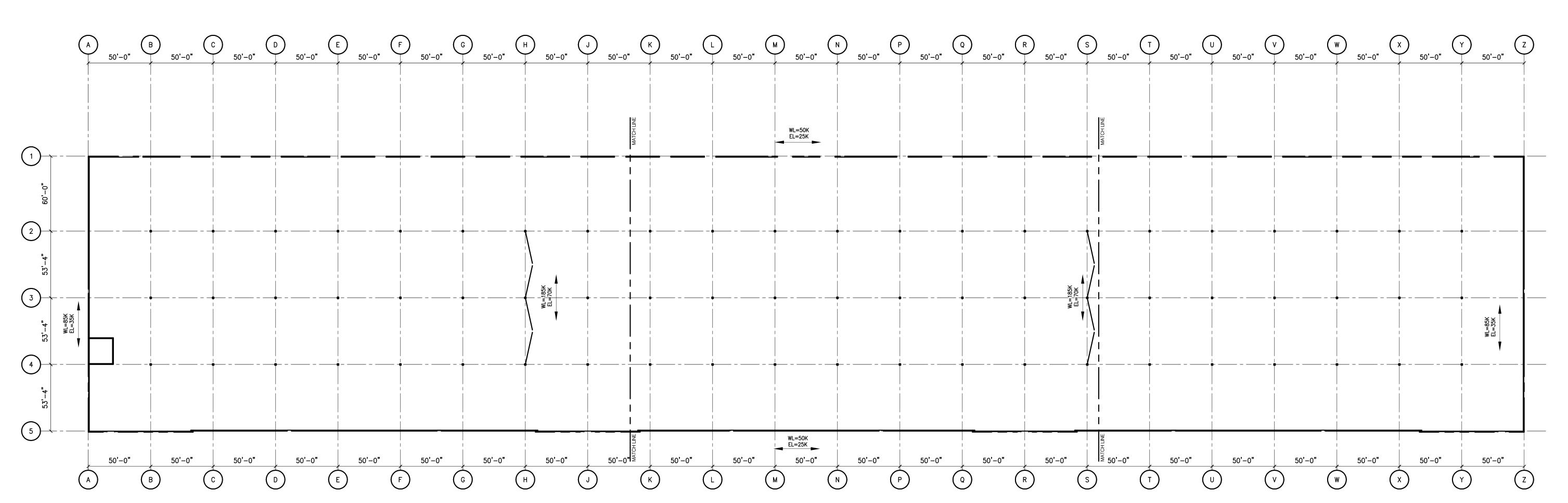




LOAD PLAN NOTES:

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.





SCANNELL PROPERTIES



CERTIFICATION

OF MISSO

JAMES M.
GRANICH

NUMBER
PE-2014023909

08/15/2022

08/15/2022 Missouri COA #001268

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PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING C LOT 3

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

1 LATERAL LOAD PLAN
SCALE: 1"=40'-0"

ISSUE DATE

ISSUE DATE

ISSUE FOR PERMIT 05.06.2022

ISSUE FOR PERMIT 08.15.2022

210300

S2.5
LATERAL LOAD PLAN





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INDIANAPOLIS, IN 46216

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PROPERTIES

wallace

Wallace Engineering

1741 McGee Street

Structural Consultants, Inc.

Structural and Civil Consultants

816.421.8282, Fax 816.421.8338

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JAMES M.

NUMBER PE-2014023909

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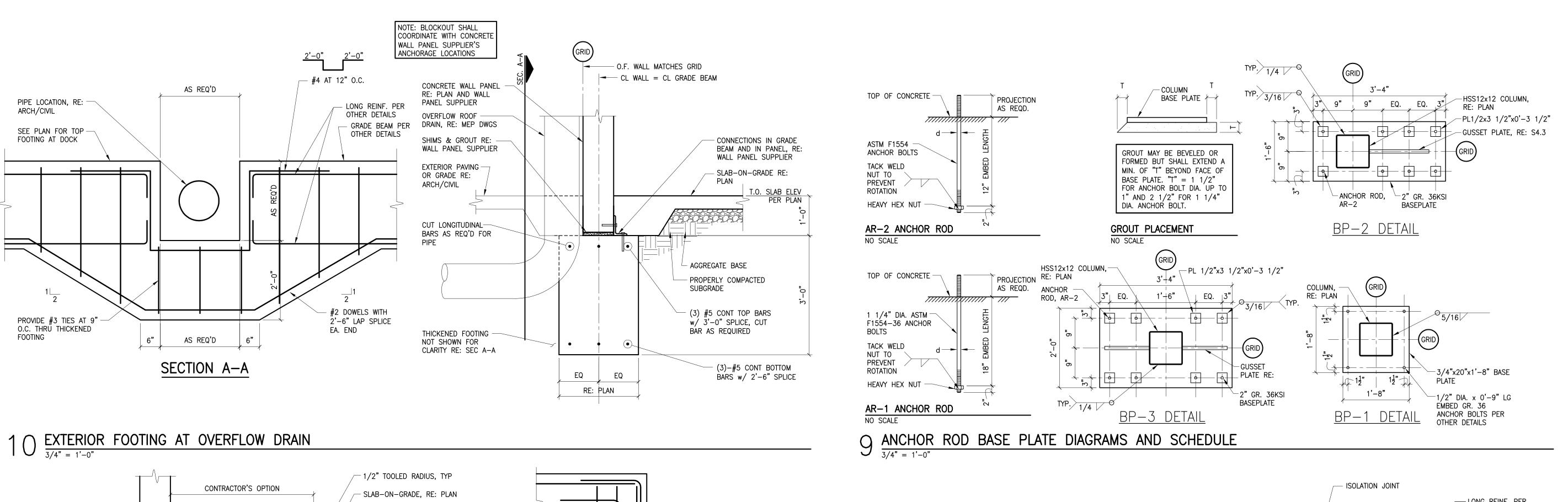
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PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS

GRANICH

Kansas City, Missouri 64108



DOWELS TO MATCH — FOOTING REINF. SIZE AND QUANTITY WITH

2'-6" LAP EA. END

PROVIDE #3 TIES AT-

6" O.C.

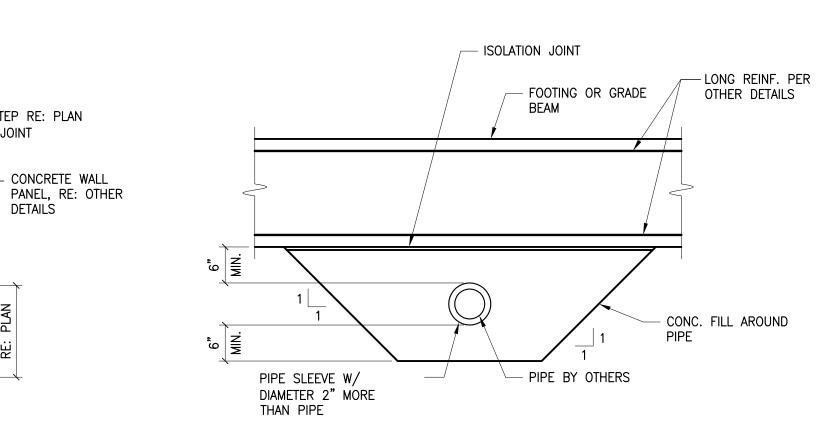
— GRADE BEAM REINFORCEMENT PER OTHER DETAILS, TYP.

CORNER BARS TO

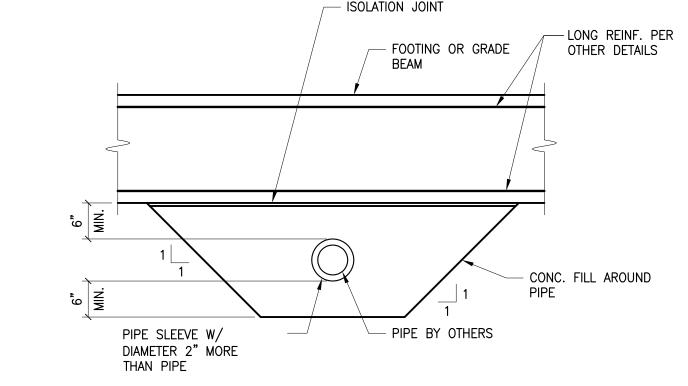
LAP BARS PER LAP

SCHEDULE, TYP.

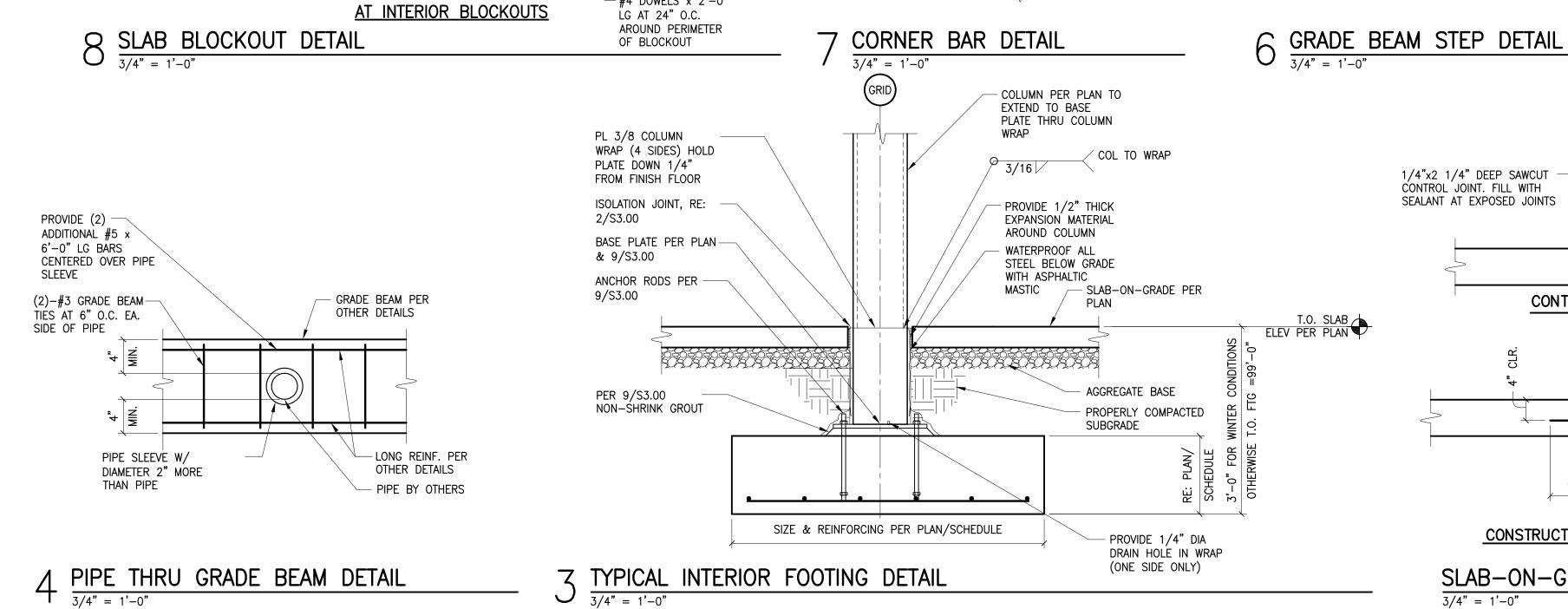
MATCH HORIZ. REINF.



 $5 \frac{\text{PIPE UNDER GRADE BEAM DETAIL}}{\frac{3}{4"} = \frac{1}{-0"}}$







PROVIDE #4 BARS AT 36" O.C. EXTENDED

30'-0" INTO SLAB MIN.

-1/2" TOOLED RADIUS,

-#4 DOWELS x 2'-0"

SLAB-ON-GRADE

RE: PLAN

SLAB BLOCK OUT FOR SLAB—ON—GRADE

RE: PLAN

AT POURBACK STRIP

CONTRACTOR'S OPTION

RE: PLAN

— SLAB BLOCK OUT FOR

SLAB-ON-GRADE

CONCRETE WALL

PANEL, RE: PLAN AND WALL PANEL SUPPLIER

SLAB CONNECTION TO -

PANEL, RE: 3/S3.1

1/4"x2 1/4" DEEP SAWCUT — CONTROL JOINT. FILL WITH SEALANT AT EXPOSED JOINTS		
	RE:	STRUCTURE PER — DETAIL
CONTROL JOINT (C.J	l.)	1/2" EXPANSION JOINT MATERIAL
4" CLR.	1/2" DIA.x2'-0" DOWELS AT 18" O.C. GREASE ONE END	
		ISOLATION JOINT
1'-0" 1'-0"	NOTE: CONSTRUCTION JOINTS TO RECEIVE DIAMOND OR SLIP DOWELS AT CONTRACTOR'S OPTION	IOOL/THOIT OOHT!
CONSTRUCTION JOINT (CON	NST. JT.)	

FTG STEP RE: PLAN

CONCRETE WALL

- LONG REINF. PER OTHER DETAILS WITH STD HOOK, TYP.

C.L. JOINT

HORIZ DIM =

FTG. STEP DIM

SLAB-ON-GRADE SECTION

3/4" = 1'-0"

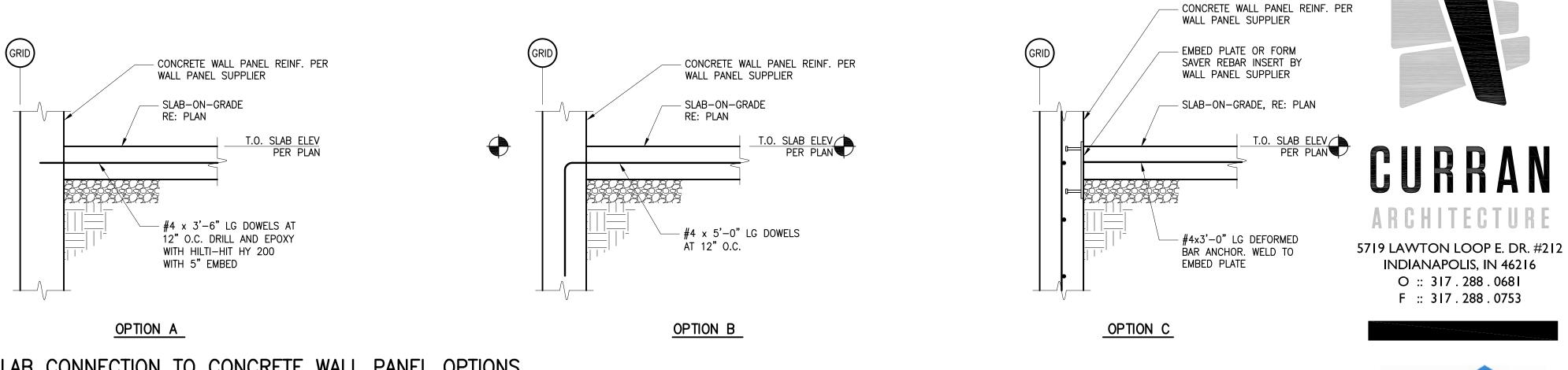
S	TEEL RE	EINF. L	AP SCH	EDULE	(INCHE	S)
	CONCRETE					
	f'c = 30	c = 3000 PSI f'c = 4000 PSI		f'c = 50	000 PSI	
BAR SIZE	TOP	OTHER	TOP	OTHER	TOP	OTHER
#3	22	17	20	16	17	13
#4	29	22	27	21	23	17
# 5	36	28	33	26	28	22
#6	43	33	40	31	34	26
# 7	63	48	58	45	49	38
#8	72	55	66	51	56	43
#9	91	70	79	61	71	54

CONC. LAP SCHEDULE $\frac{3/4" = 1'-0"}{3}$

ISSUE	DAT
ISSUE FOR PERMIT	05.06.202
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21030	0

S3.0

FOUNDATION DETAILS



5 SLAB CONNECTION TO CONCRETE WALL PANEL OPTIONS $\frac{3}{4"} = 1'-0"$

NOTE:

STRINGER:

HEADER:

TREADS:

 $1 \frac{\text{STAIR DETAILS}}{3/4" = 1'-0"}$

STAIR FRAMING IS FOR GRAPHICAL PURPOSES ONLY. STEEL

FABRICATOR SHALL COORDINATE DIMENSIONS AND LOCATION

OF STAIR WITH THE ENTIRE CONSTRUCTION DOCUMENTS AND

STAIR FRAMING, STRINGERS, TREADS, HANDRAILS, LANDINGS

AND CONNECTION DETAILING AND DESIGN SHALL BE THE

DIAPHRAGMS. DESIGN LOADS SHALL BE COORDINATED WITH

THE ENGINEER OF RECORD. IF ADDITIONAL COLUMNS OR

FABRICATOR SHALL COORDINATE ADDITIONAL FOOTINGS OR

ATTACHMENT TO BEAMS WITH GENERAL CONTRACTOR AND

SUBMITTAL AND SHALL BE SUBMITTED FOR REVIEW AS SET

GALV. C12x20.7

GALV. C12x20.7

1 1/4" DEEP BAR GRATING

ENGINEER OF RECORD. THE DESIGN IS A DEFERRED

FORTH IN THE STRUCTURAL GENERAL NOTES.

MINIMUM MEMBER SIZES ARE AS NOTED BELOW:

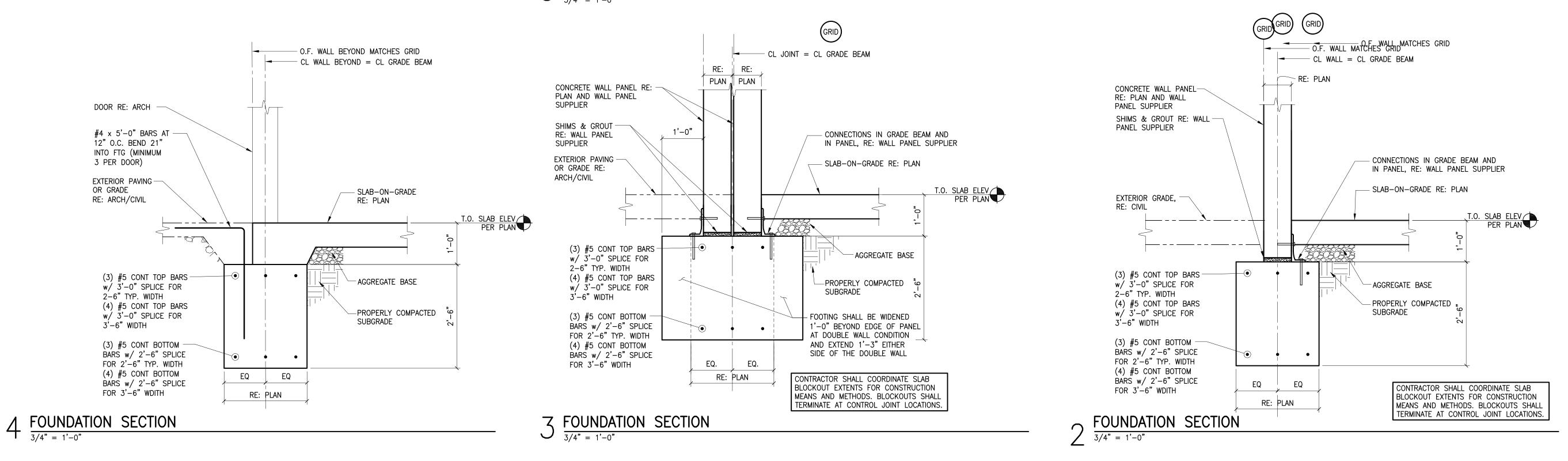
LANDING DECK: 1 1/4" DEEP BAR GRATING

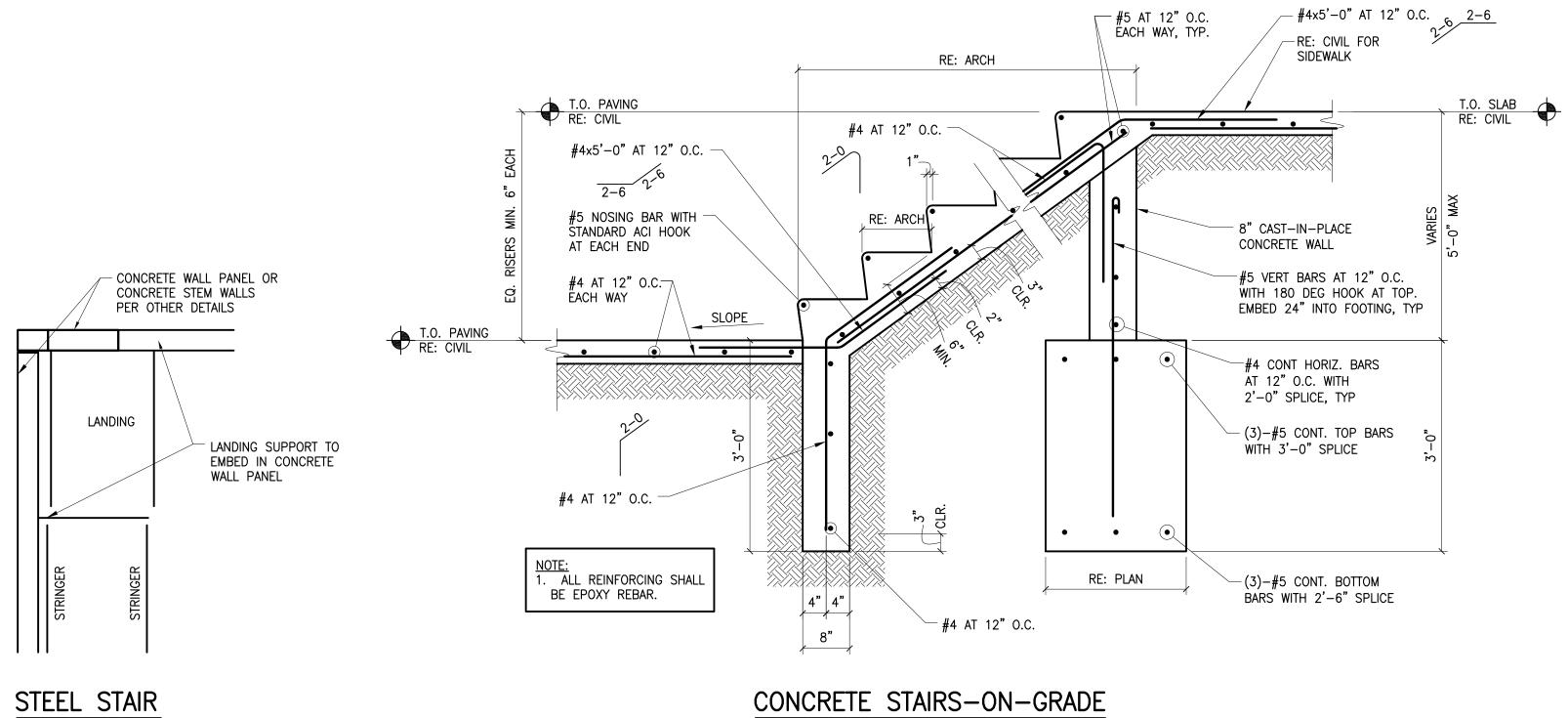
POSTS ARE REQUIRED WHERE NOT EXPLICITLY SHOWN, STEEL

RESPONSIBILITY OF THE STEEL FABRICATOR. STEEL

FABRICATOR SHALL INCLUDE THE DESIGN FOR ANY ATTACHMENTS TO THE BUILDINGS, FOUNDATIONS OR

NOT SOLELY THE STRUCTURAL PORTION ONLY.





√ #5 AT 12" O.C.

ISSUE DATES DATE ISSUE ISSUE FOR PERMIT 05.06.2022 ISSUE FOR PERMIT 08.15.2022

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JAMES M. GRANICH

NUMBER

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08/15/2022

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PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING C LOT 3

NW CORNER TUDOR RD & MAINST

LEE'S SUMMIT, MO

OF CURRAN ARCHITECTURE, AND ARE NOT

Wallace Engineering

Structural Consultants, Inc.

1741 McGee Street

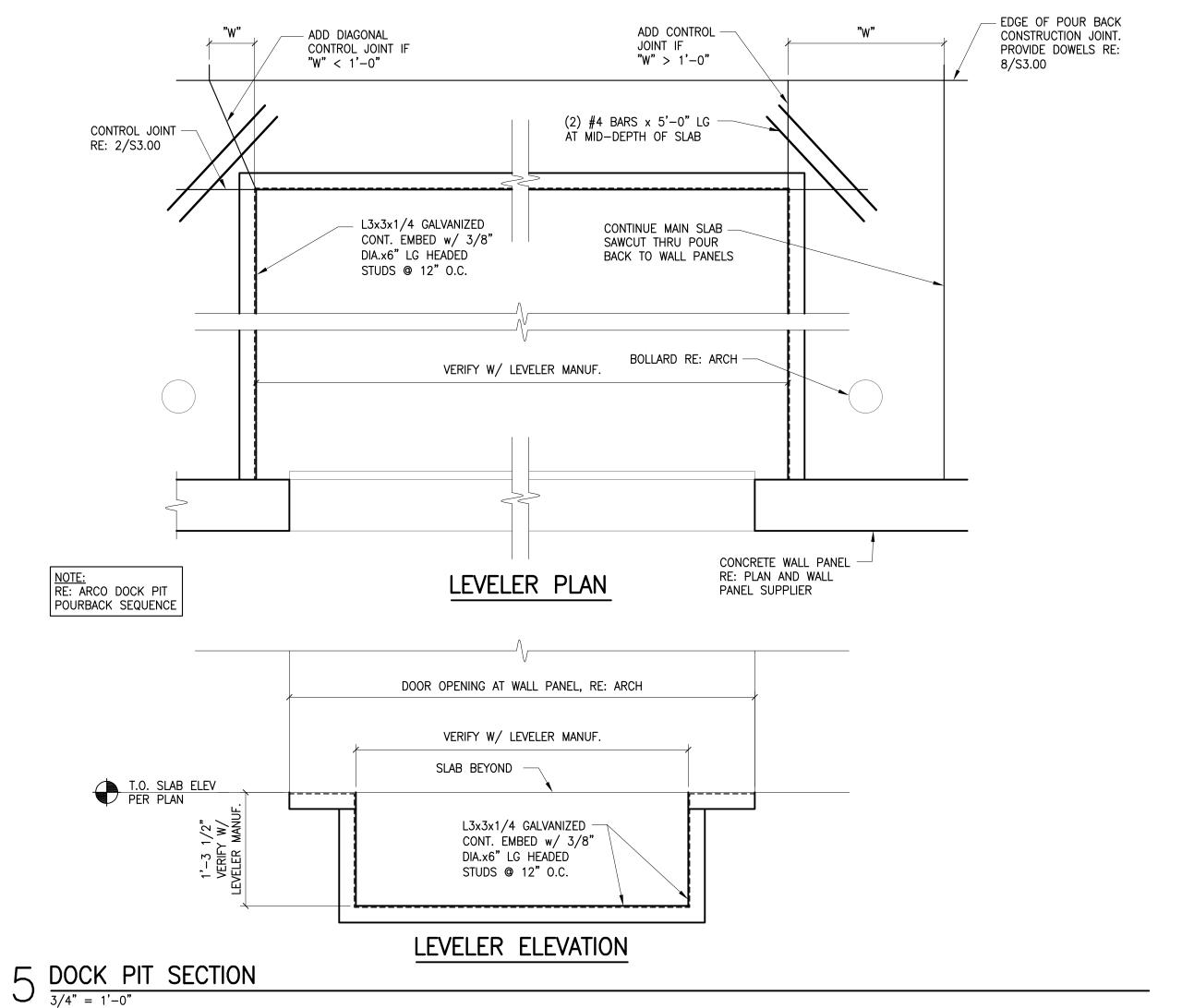
Structural and Civil Consultants

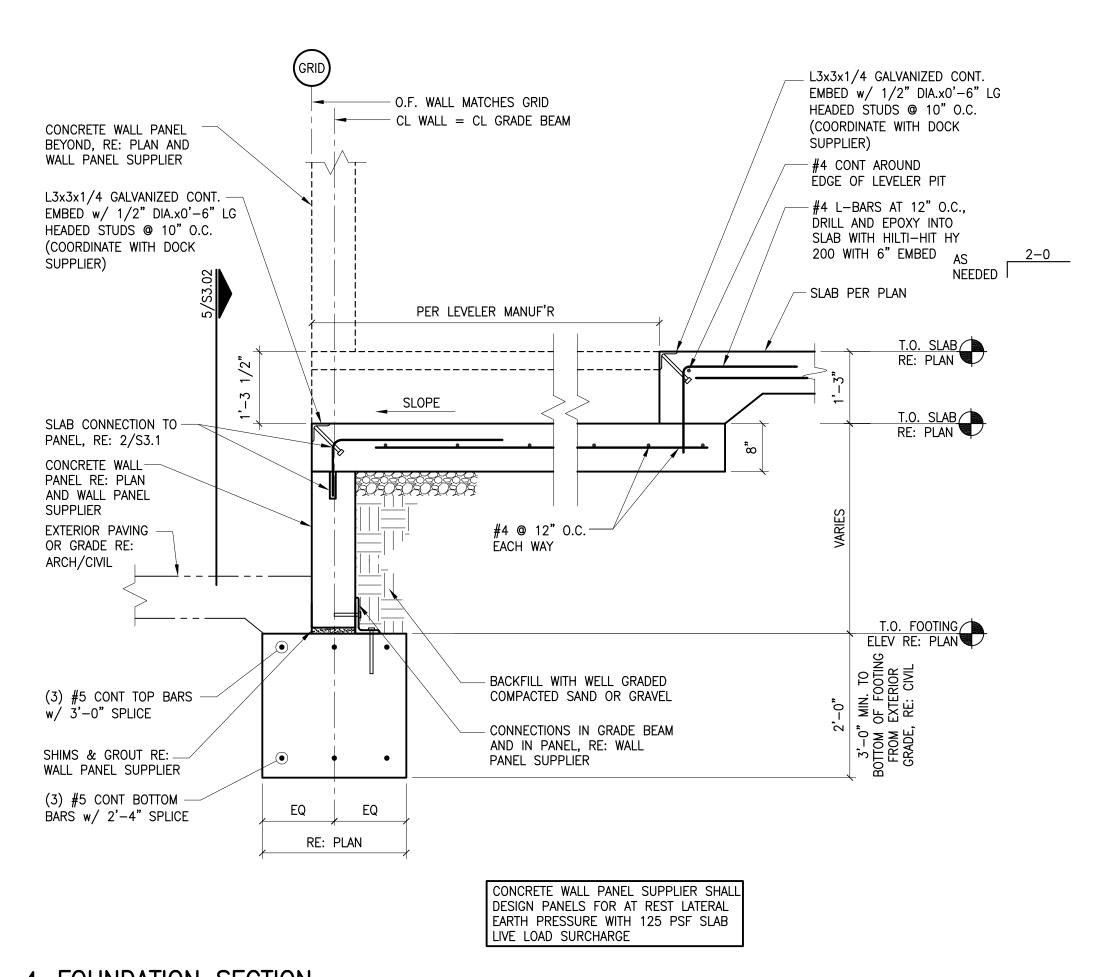
Kansas City, Missouri 64108 816.421.8282, Fax 816.421.8338

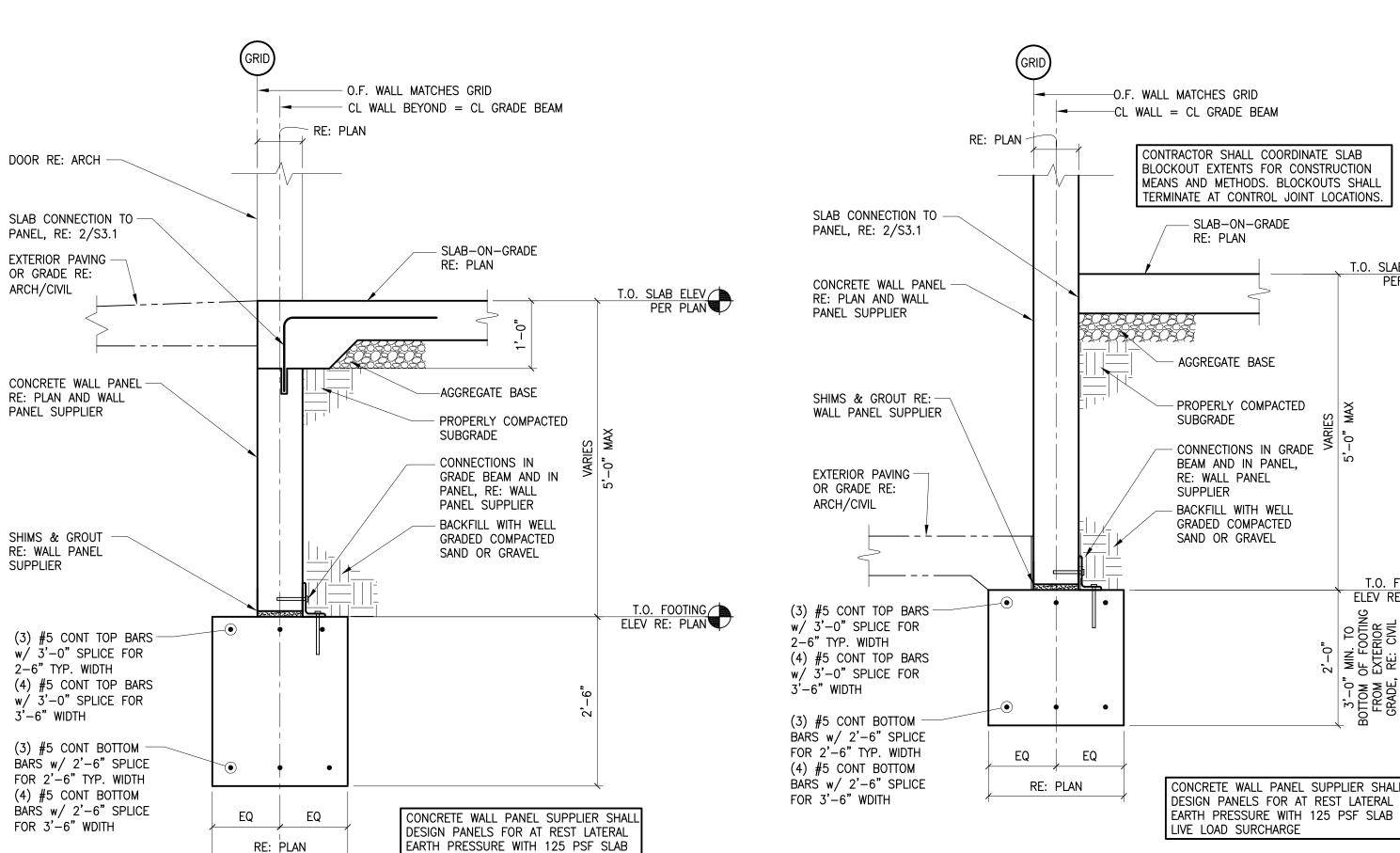
S3.1

FOUNDATION DETAILS

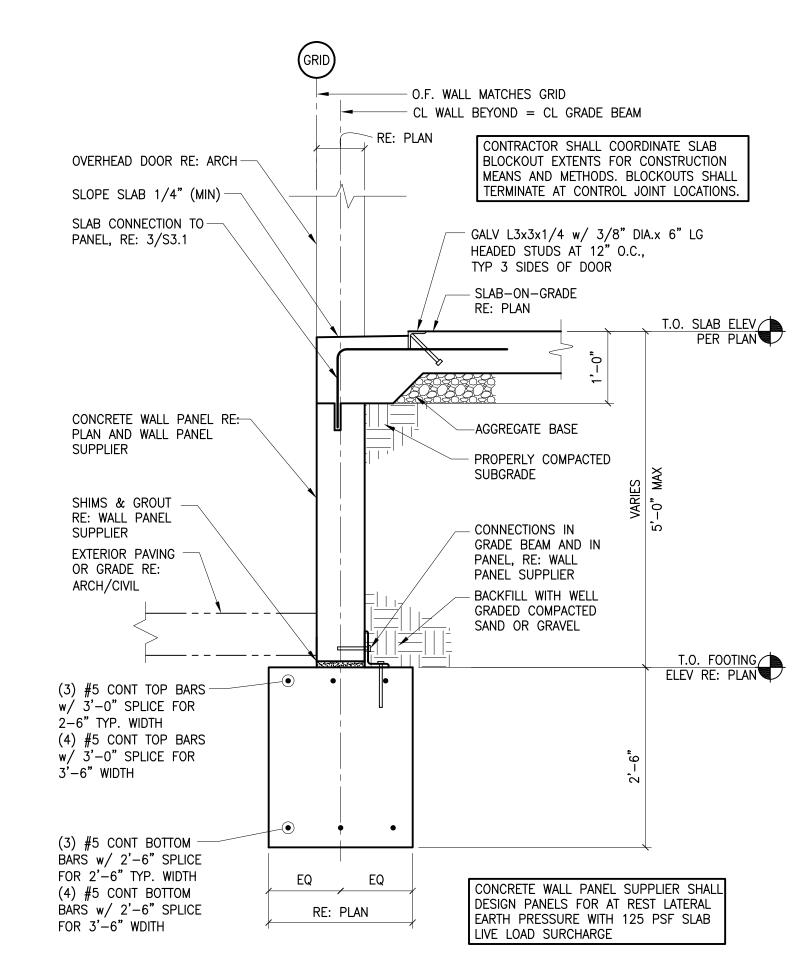
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LIVE LOAD SURCHARGE



1 FOUNDATION SECTION AT OVERHEAD DOOR

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Missouri COA #001268

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PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING C LOT 3

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

DA
5.06.20
08.15.20

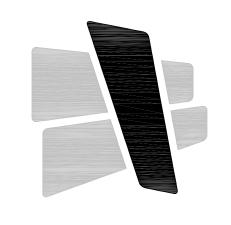
S3.2 FOUNDATION DETAILS

210300

— SLAB—ON—GRADE

T.O. SLAB ELEV PER PLAN

RE: PLAN



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PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS **BUILDING C LOT 3**

DATE

05.06.2022

08.15.2022

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

T.O. SLAB ELEV PER PLAN **ISSUE DATES** ISSUE ISSUE FOR PERMIT ISSUE FOR PERMIT 210300

S3.3 FOUNDATION DETAILS

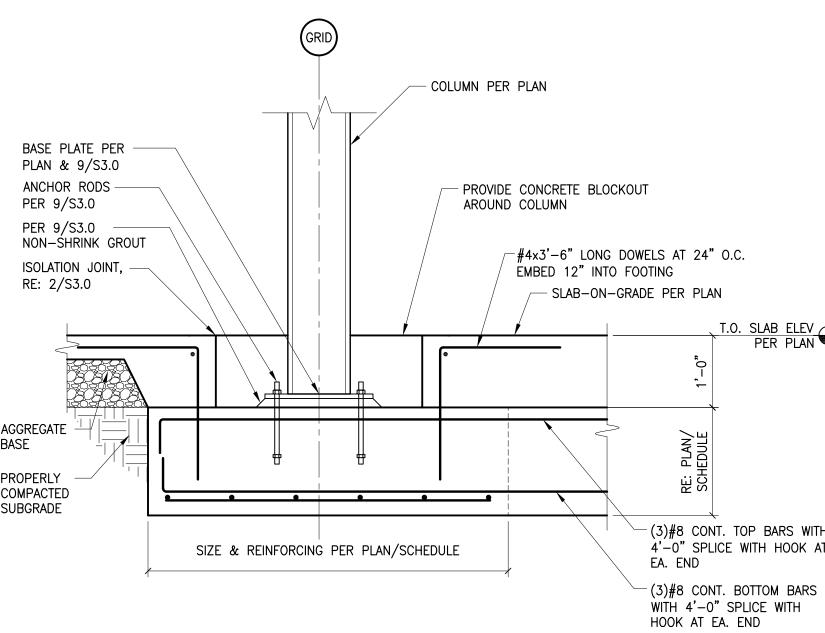
/--- #4 x 5'-0" LG DOWELS @ "12" O.C. EMBED 2'-0" RAMP SLAB-ON-GRADE INTO WALL RE: CIVIL AT CONTRACTOR'S OPTION, T.O. RAMP ELEV PER CIVIL USE #4x3'-0" LG DOWELS AT 12" O.C. DRILL AND EPOXY INTO WALL WITH HILTI HY 200 WITH 4" EMBED #5 VERT BARS AT 12" O.C. -WITH 180 DEG HOOK AT TOP. EMBED 24" INTO FOOTING, TYP ___#4 x 5'-0" LG DOWELS @ 12" O.C. EMBED 2'-0" INTO FTG - EXTERIOR PAVEMENT RE: CIVIL #4 CONT HORIZ. BARS -AT 12" O.C. WITH 2'-0" SPLICE, TYP T.O. SLAB ELEV PER PLAN 8" CAST-IN-PLACE CONCRETE WALL T.O. FOOTING ELEV RE: PLAN (2)-#6 CONT TOP -BARS w/ 3'-7" SPLICE (4)-#8 CONT BOTTOM BARS w/ 4'-7" SPLICE 4'-0"

CL WALL = CL GRADE BEAM

C.L. WALL = C.L. THICKENED SLAB T.O. CMU WALL

ELEV = 113'-0" MAX - METAL STUDS RE: ARCH ATTACH TO ROOF WITH DEFLECTION TRACK OR CLIPS - #5 VERT. DOWELS \times 6'-0" LG TO MATCH SPACING OF WALL REINF. DRILL AND EPOXY INTO SLAB WITH 9" EMBED WITH HILTI HIT-HY 200 8" MASONRY WALL WITH -(1)-#5 VERT. BARS AT BOND BEAM WITH 24" O.C. IN GROUTED (2)-#5 CONT. BARS AT 48" O.C. VERTICALLY (3)-#5 CONT. -BOTTOM BARS - SLAB-ON-GRADE WITH 2'-0" LG RE: PLAN SPLICE T.O. SLAB ELEV. RE: PLAN. — #4 BARS AT 18" O.C. EXTEND 1'-6" INTO SLAB EACH END 1'-0" 2'-0" 1'-0"

 $5 \frac{\text{FOUNDATION SECTION}}{3/4" = 1'-0"}$



 $\frac{\text{FOUNDATION SECTION}}{3/4" = 1'-0"}$ 2 TYPICAL BRACED FRAME FOOTING DETAIL $\frac{3}{4}$ = $\frac{1}{-0}$

- #4 TIES AT 18" O.C.

---- O.F. WALL MATCHES GRID CL WALL = CL GRADE BEAM RE: PLAN CONCRETE WALL PANEL RE: — PLAN AND WALL PANEL SUPPLIER SHIMS & GROUT -RE: WALL PANEL - CONNECTIONS IN GRADE BEAM AND IN PANEL, RE: WALL PANEL SUPPLIER SUPPLIER EXTERIOR PAVING -- SLAB-ON-GRADE RE: PLAN OR GRADE RE: ARCH/CIVIL -AGGREGATE BASE (3) #5 CONT TOP BARS w/ 3'-0" SPLICE FOR -PROPERLY COMPACTED 2-6" TYP. WIDTH SUBGRADE (4) #5 CONT TOP BARS -EXTENTS OF GRADE $\dot{w}/\ddot{3}'-0$ " SPLICE FOR BEAM BEYOND 3'-6" WIDTH. CONTINUE THRU FTG (3) #5 CONT BOTTOM-BARS w/ 2'-6" SPLICE FOR 2'-6" TYP. WIDTH (4) #5 CONT BOTTOM BARS w/ 2'-6" SPLICE EQ EQ CONTRACTOR SHALL COORDINATE SLAB BLOCKOUT EXTENTS FOR CONSTRUCTION MEANS AND METHODS. BLOCKOUTS SHALL TERMINATE AT CONTROL JOINT LOCATIONS. FOR 3'-6" WDITH. SIZE AND REINF. RE: PLAN/SCHEDULE CONTINUE THRU FTG

FOUNDATION SECTION

 $4 \frac{\text{FOUNDATION SECTION}}{3/4" = 1'-0"}$

10'-0" (10) #7 AT 12" O.C. BOTTOM BARS EACH WAY	
• DD4.05D 5D445 50.07040 D50450505054547 D5740	
6 BRACED FRAME FOOTING REINFORCEMENT DETAIL	
#4x5'-0" LONG DOWELS ————————————————————————————————————	
54" O.C. EMBED 18" INTO GRADE BEAM	
T.O. SLAB ELEV	•

(3) #9 AT 12" O.C.

ÈDGE TOP BARS

TYP. EACH END, EACH WAY

(3) #8 CONT. TOP AND - BOTTOM BARS WITH

4'-0" SPLICE WITH STD. HOOK. EXTEND THRU

FOOTING EACH END

f'c = 4,000 PSI TOMATCH ADJACENT

EQ

2'-0"

EQ

FOOTINGS

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

RE: PLAN FOR FOOTING LOCATIONS AND SIZE

- COLUMN RE: PLAN

PRESENTED HERE.

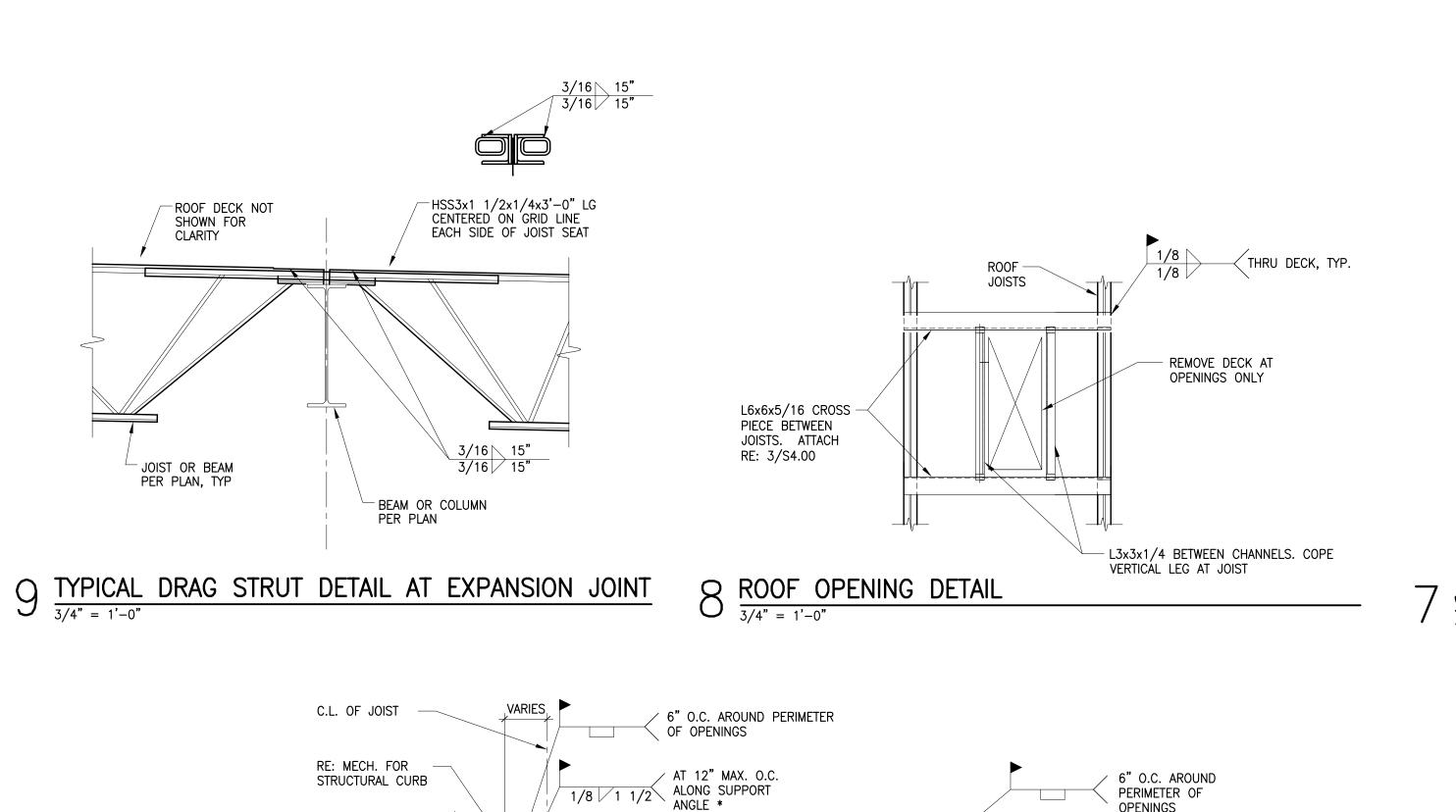
RE: 2/S3.3 FOR ADDITIONAL INFORMATION FOR TYPICÁL BRACE FRAME FOOTING DETAIL NOT

PROVIDE STD. HOOKS AT EA. END OF ALL TOP BARS.

(4) #7 AT 12" O.C. INT. TOP BARS EACH WAY

T.O. FTG. ELEV. RE: PLAN

T.O. SLAB ELEV PER PLAN AGGREGATE BASE PROPERLY COMPACTED SUBGRADE (3)#8 CONT. TOP BARS WITH 4'-0" SPLICE WITH HOOK AT



3/16 1 1/2 JOIST

-ANGLE ATTACHMENT TO

* (2)-1/8"x1 1/2" FILLET WELDS AT JOIST

- L5x3x1/4 (LLV), TYP.

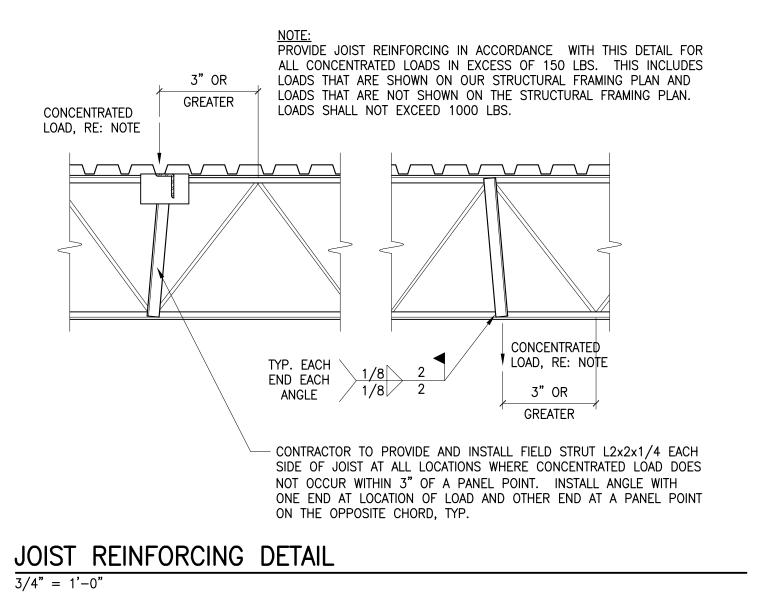
JOIST RE: DETAIL

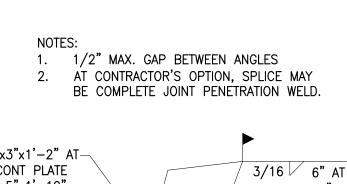
ANGLE ATTACHMENT TO

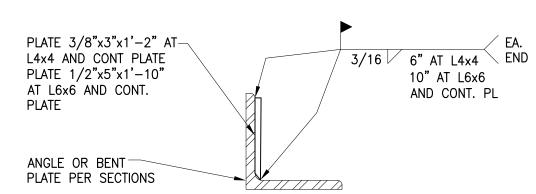
JOIST RE: DETAIL

JOIST, RE: PLAN

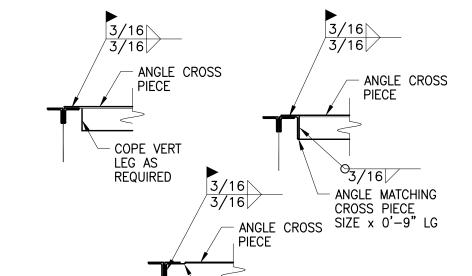
WITHOUT HEADER





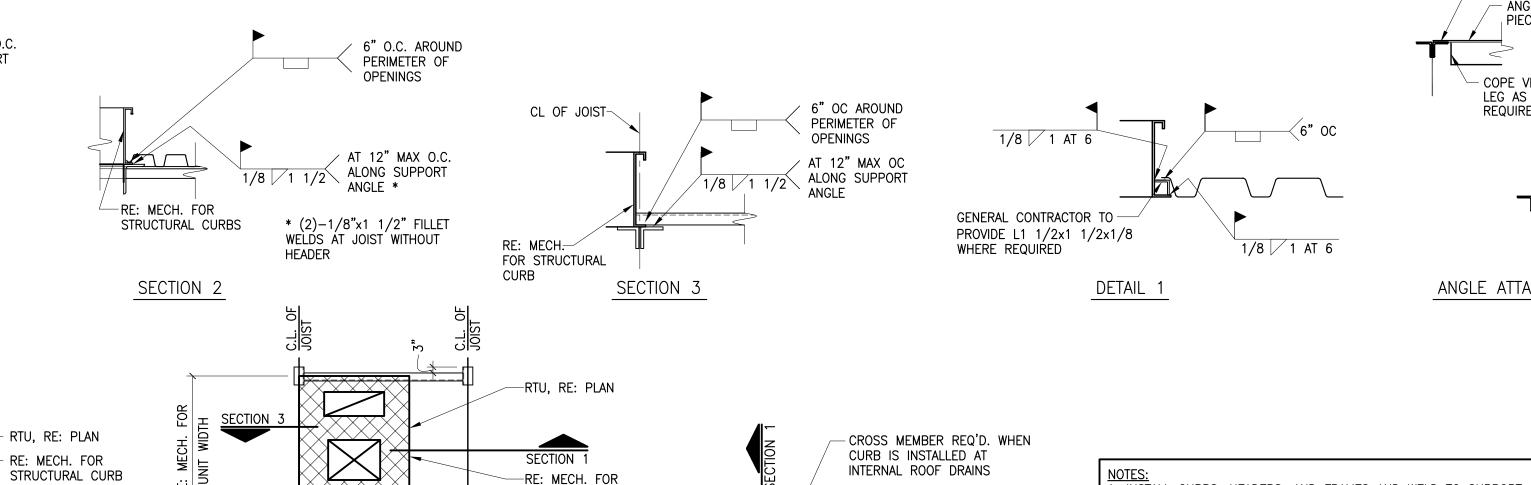


 $6 \frac{\mathsf{SPLICE}}{3/4"} = 1'-0"$



COPE HORIZ.

REQUIRED ANGLE ATTACHMENT TO JOIST DETAIL



_C.L. OF JOIST

C.L. OF JOIST

OPENING IN ROOF LARGER THAN 10"x10"

- FIELD FABRICATE FRAME

FROM L5x3x1/4 (LLV)

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.

. 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. . 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.

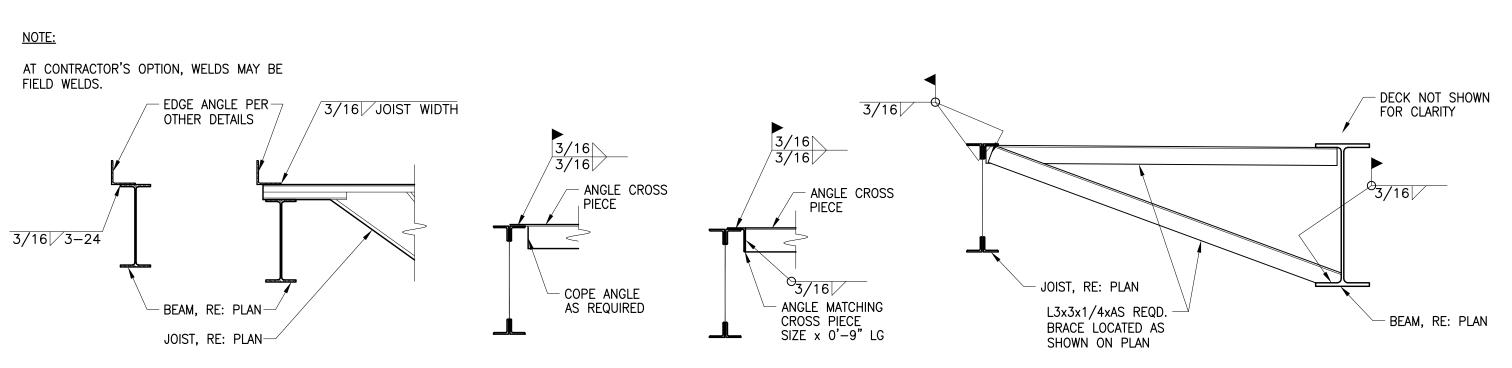
$5 \frac{\text{MECHANICAL UNIT SUPPORT DETAIL}}{\frac{3}{4}" = 1"-0"}$

TYP. AT UNIT SPANNING MULTIPLE JOISTS

L5x3x1/4 (LLV) REQUIRED ONLY

FOR STRUCTURAL CURB NOT SUPPORTED

BY (2) JOISTS, MIN.



 $4 EDGE ANGLE CONNECTION DETAIL

<math>
\frac{3}{4"} = 1'-0"$ 7 ANGLE CONNECTION DETAILS

BOTTOM FLANGE BRACING DETAIL

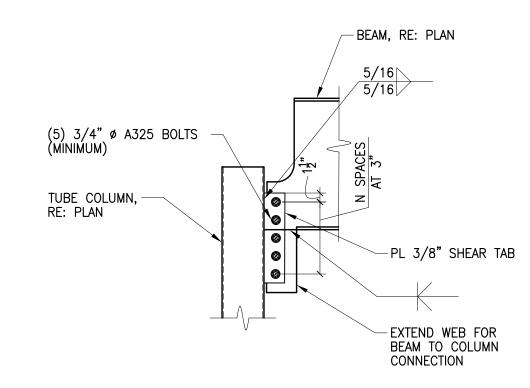
STRUCTURAL CURB

L5x3x1/4 (LLV), TYP.

JOIST RE: DETAIL

TYP. AT UNIT BETWEEN JOISTS

ANGLE ATTACHMENT TO



- 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.

ISSUE

ISSUE FOR PERMIT

ISSUE FOR PERMIT

S4.0 FRAMING DETAILS

210300

BEAM CONNECTION DETAIL

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SCANNELL

PROPERTIES

wallace.

Wallace Engineering

1741 McGee Street

Structural Consultants, Inc.

Structural and Civil Consultants

Kansas City, Missouri 64108

816.421.8282, Fax 816.421.8338

CERTIFICATION

JAMES M.

GRANICH

LEE'S SUMMIT LOGISTICS BUILDING C LOT 3

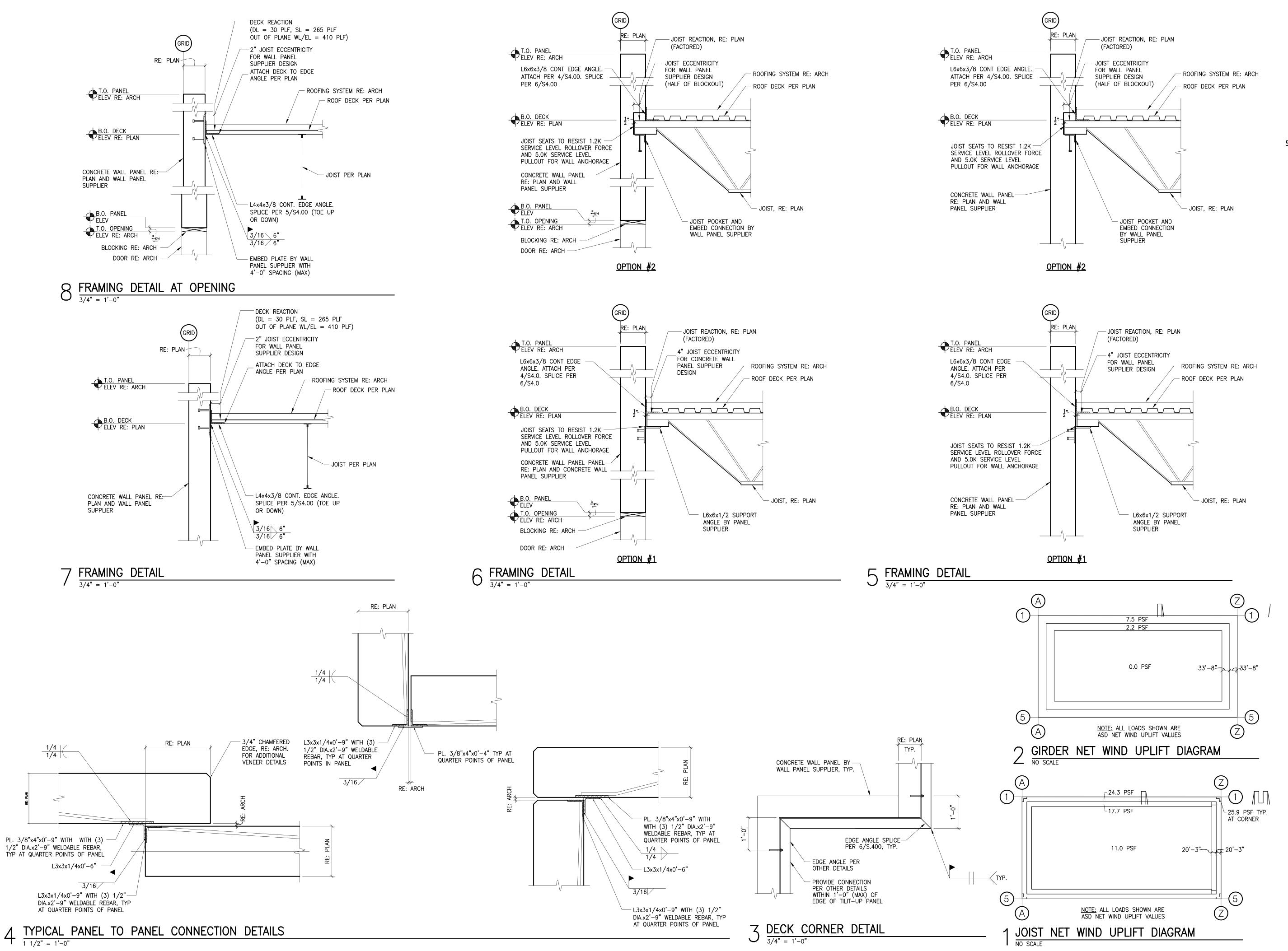
NW CORNER TUDOR RD & MAINST LEE'S SUMMIT, MO

ISSUE DATES

DATE

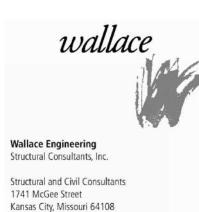
05.06.2022

08.15.2022



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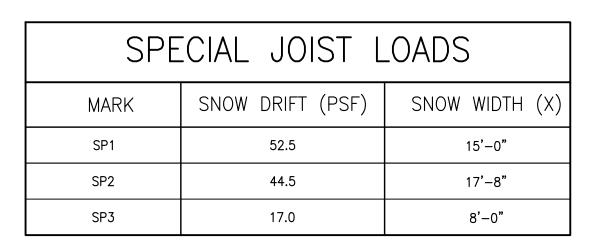
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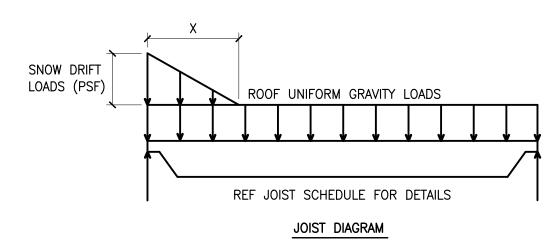
LEE'S SUMMIT LOGISTICS BUILDING C LOT 3

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

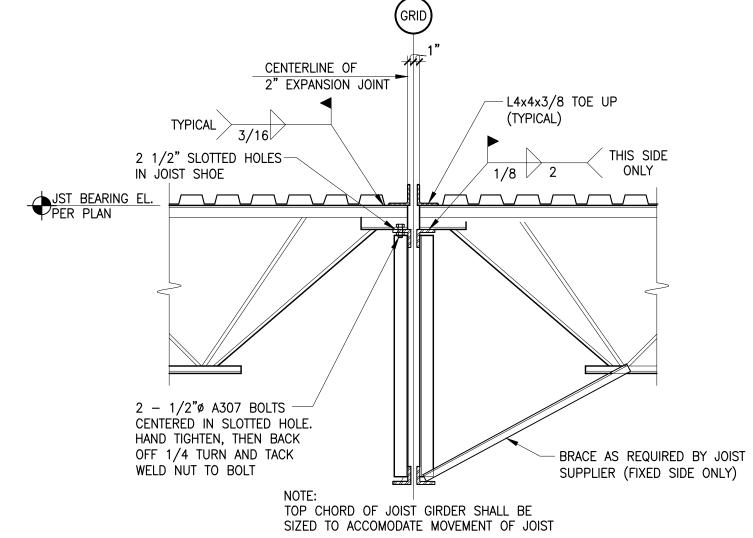
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ISSUE FOR PERMIT	08.15.2022
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S4.1 FRAMING DETAILS

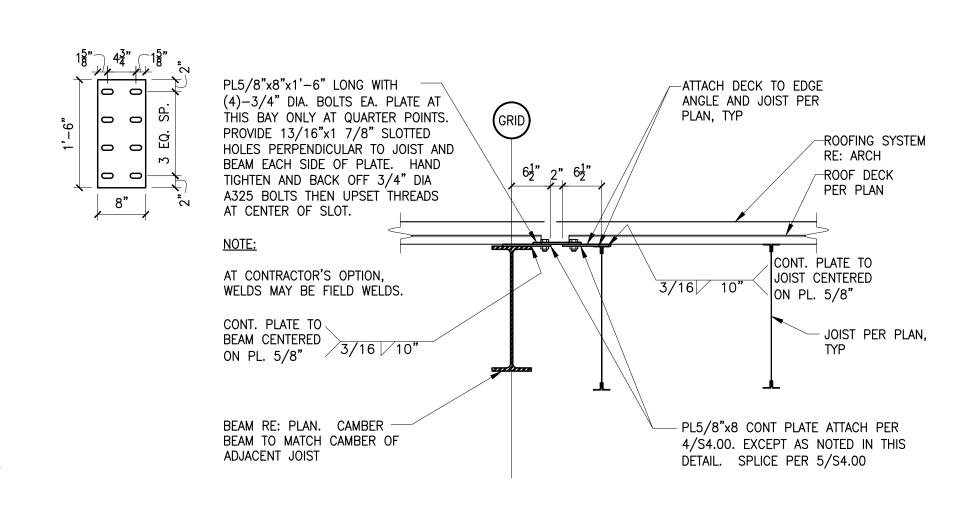




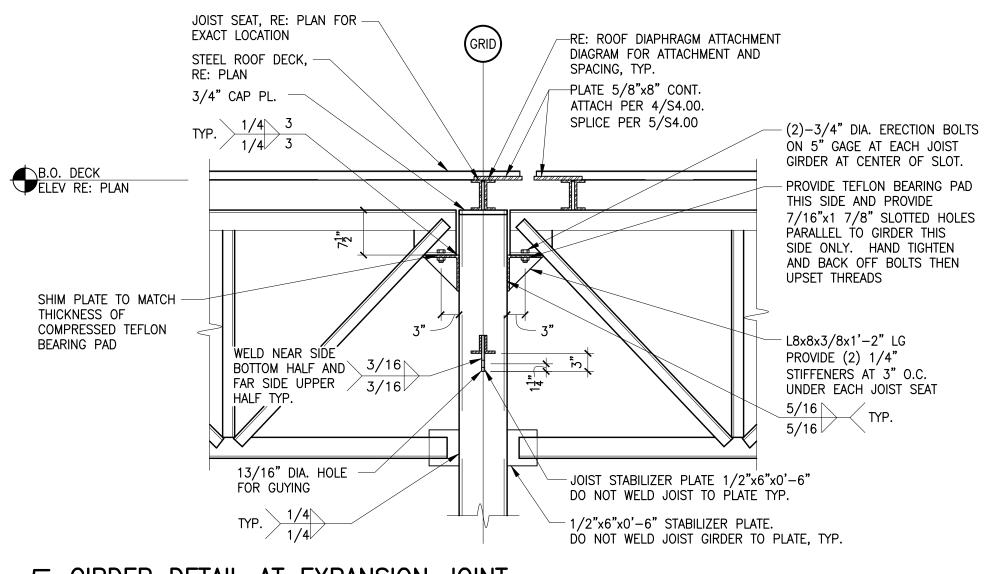
8 SPECIAL JOIST SCHEDULE $\frac{3}{4}$ " = 1'-0"



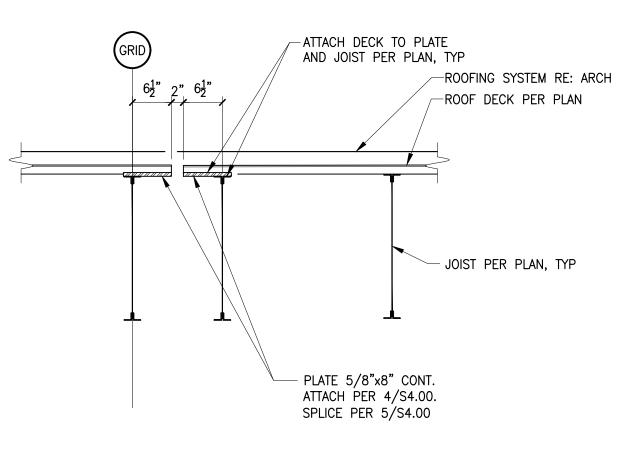
JOIST TO GIRDER DETAIL AT EXPANSION JOINT



6 JOIST TO BEAM DETAIL AT EXPANSION JOINT $\frac{3}{4"} = \frac{1}{0}$



 $5 \frac{\text{GIRDER DETAIL AT EXPANSION JOINT}}{\frac{3}{4}" = 1'-0"}$



OPTION #2

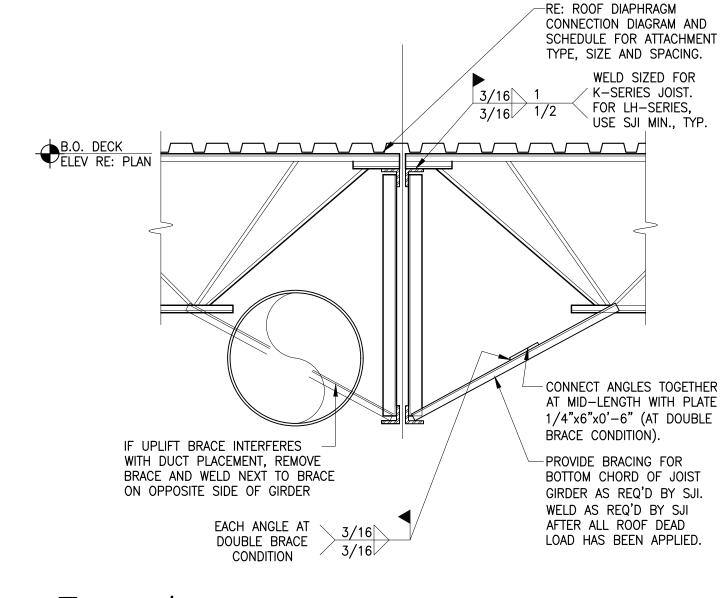
O.F. PANEL

OR DOWN)

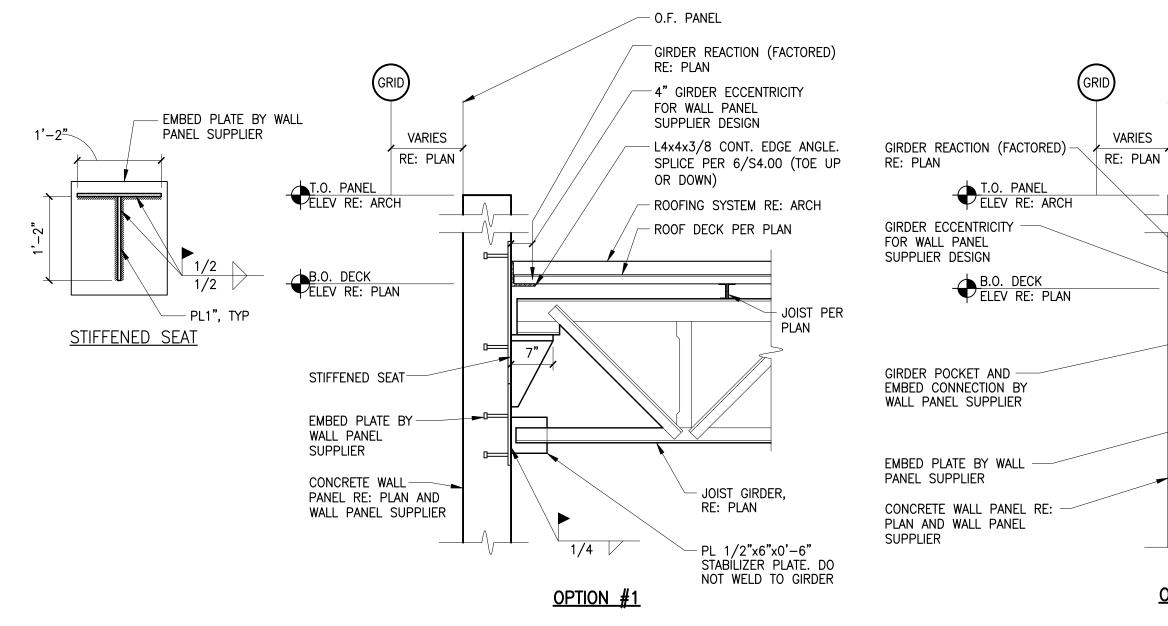
PLAN

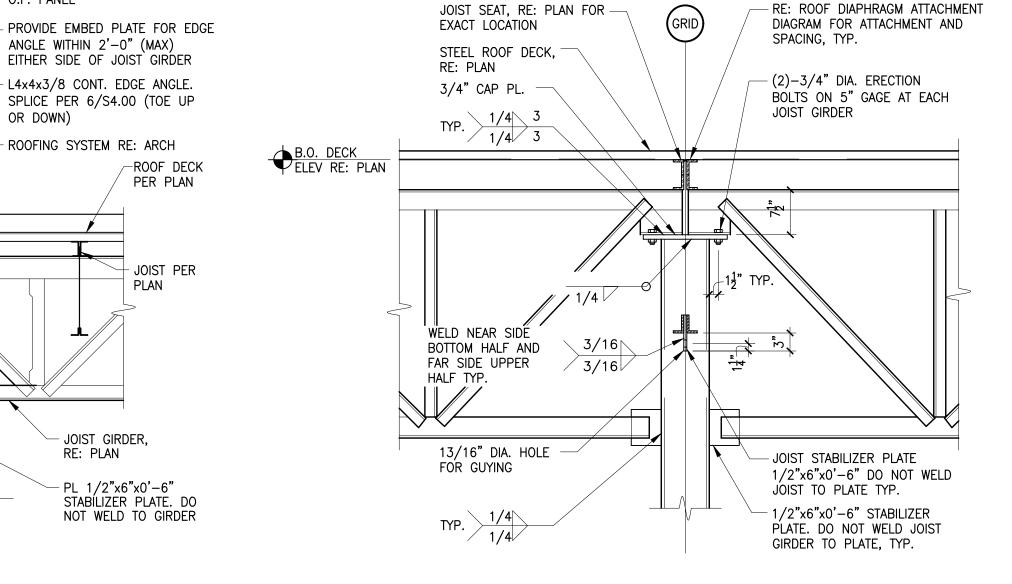
JOIST GIRDER,

RE: PLAN



JOIST/JOIST GIRDER SECTION





 $1 \quad \frac{\text{JOIST GIRDER/COLUMN CONNECTION}}{3/4" = 1'-0"}$



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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

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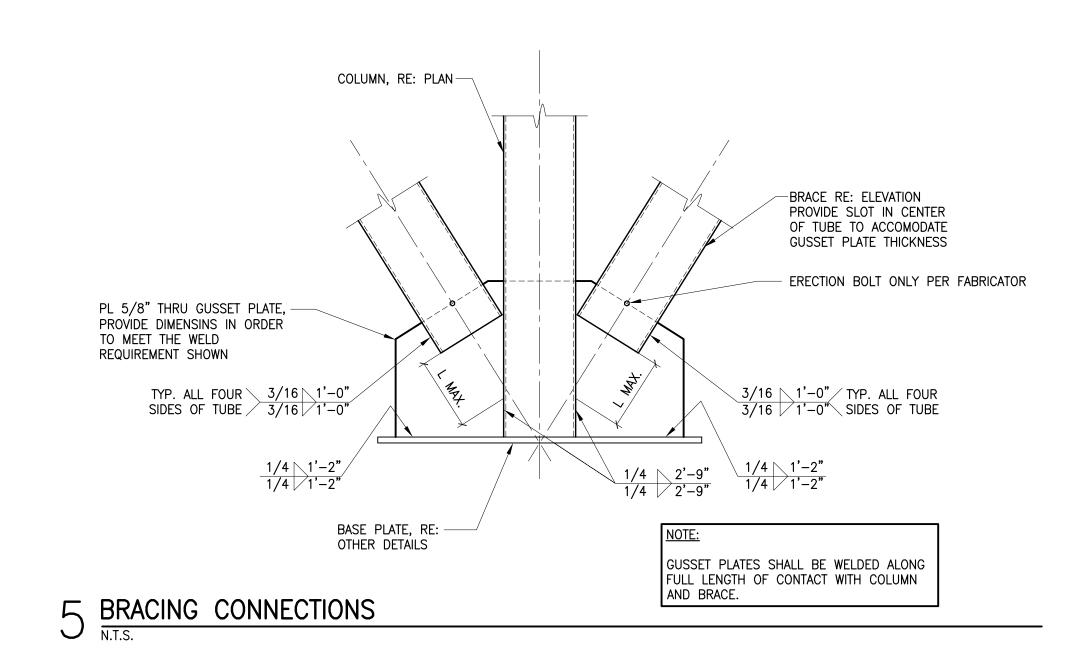
PROJECT INFORMATION

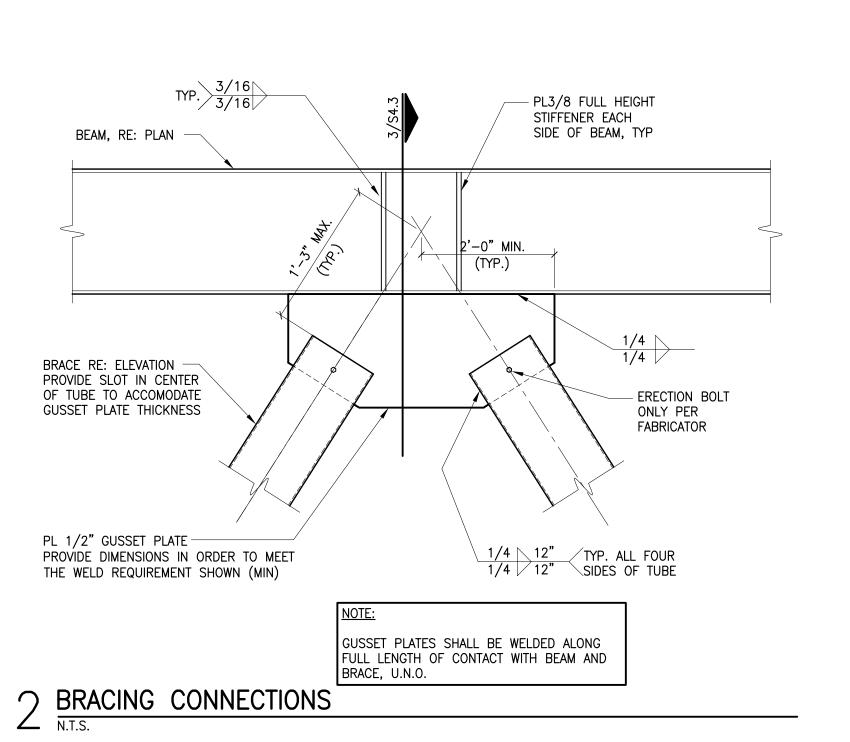
LEE'S SUMMIT LOGISTICS BUILDING C LOT 3

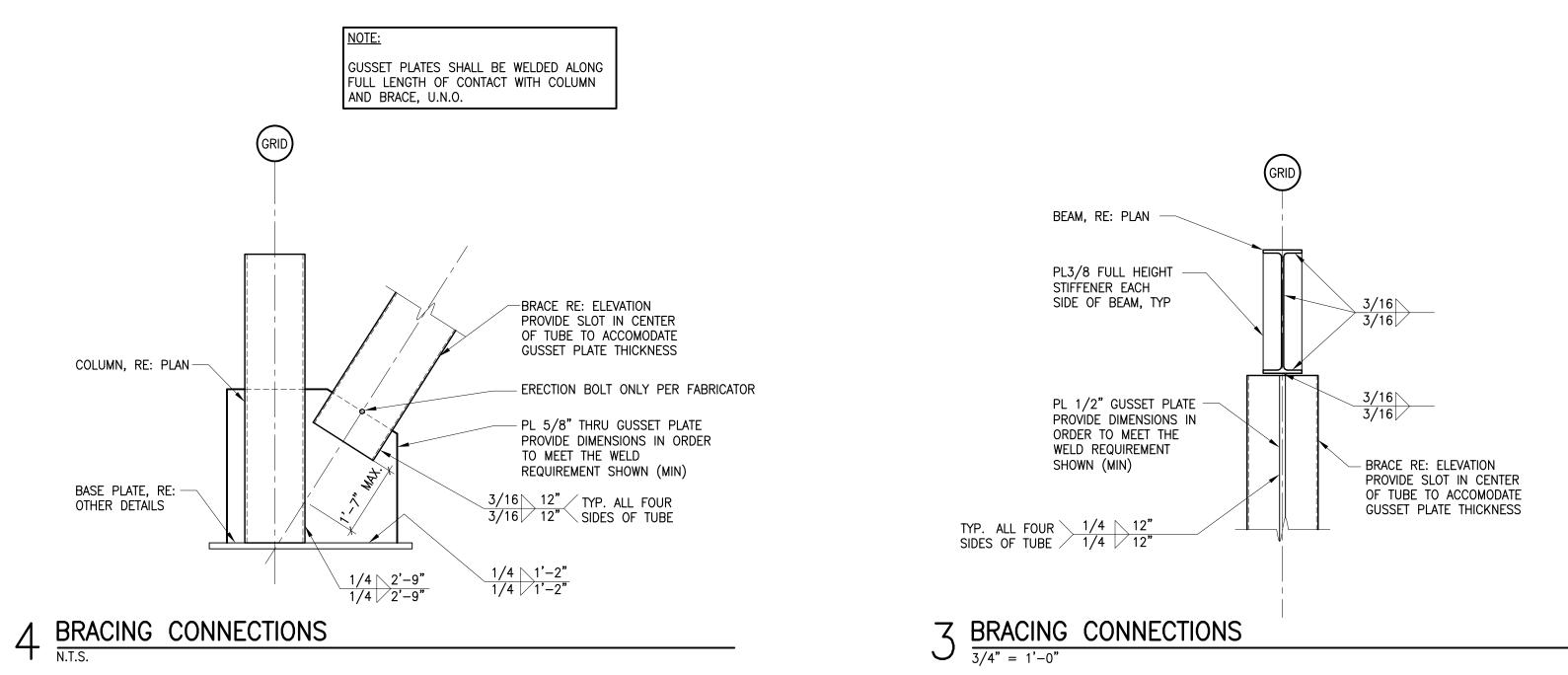
NW CORNER TUDOR RD & MAINST LEE'S SUMMIT, MO

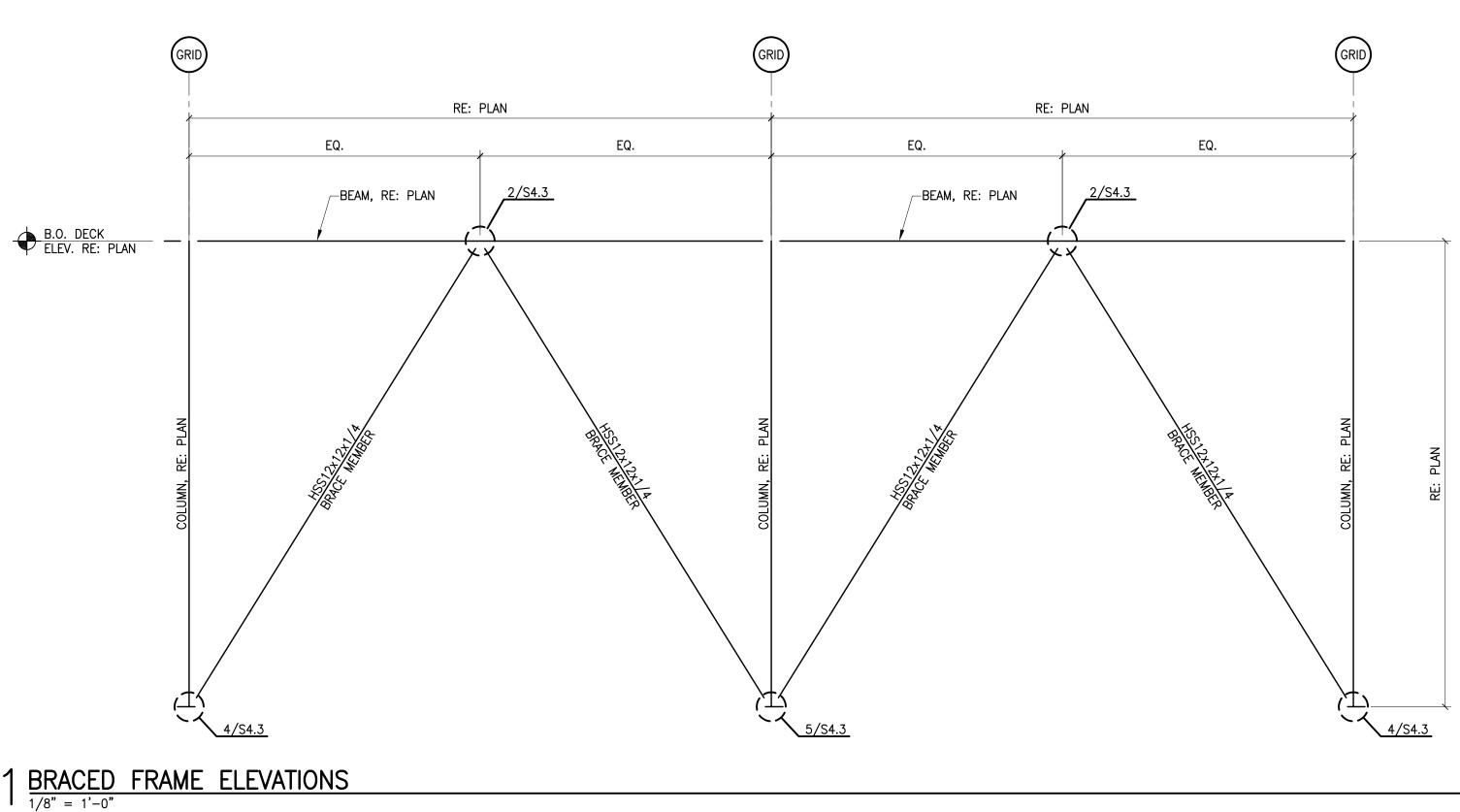
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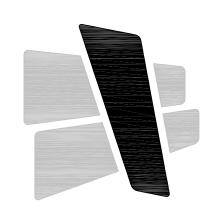
S4.2 FRAMING DETAILS











CURRAN ARCHITECTURE

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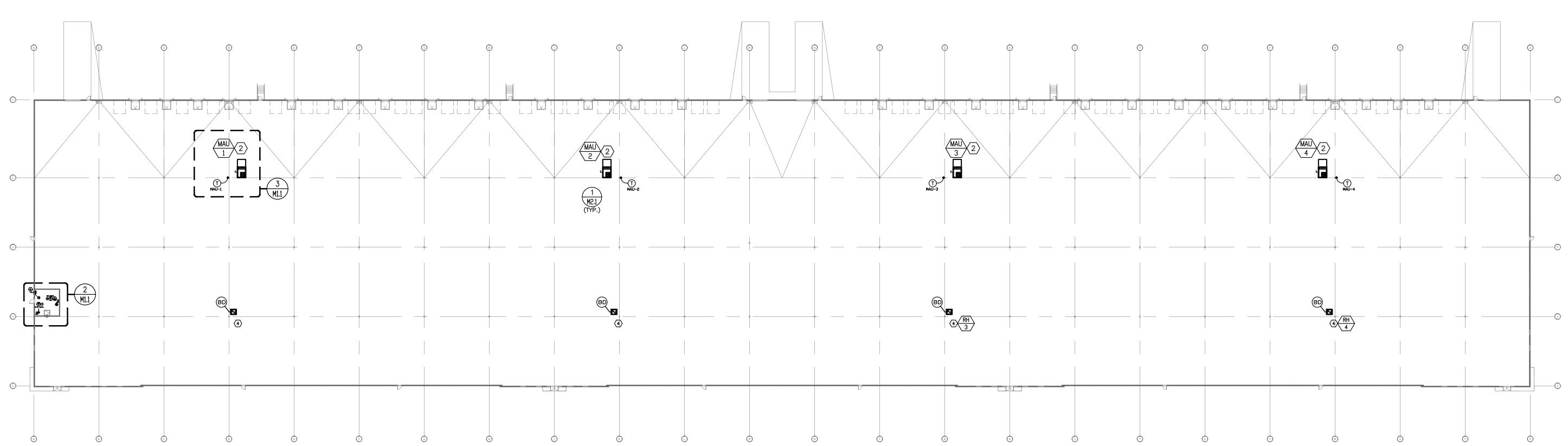
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LEE'S SUMMIT LOGISTICS BUILDING C LOT 3

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

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ISSUE	DATE
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S4.3
FRAMING DETAILS







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Overall Mechanical Floor Plan

| Scale: 1" = 40'-0"

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PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING C LOT 3

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



	ISSUE [DATES
	PERMIT SET	04.26.22
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TOAI	220	010
LOGISTICS BLDG. #3	2200	U17
MAIN ST - LEE'S SUMMIT, MO		

OF 2

LEE'S SUMMIT LOGISTICS BLDG.

NE TUDOR RD AND MAIN ST - LEE'S SUMMIT,

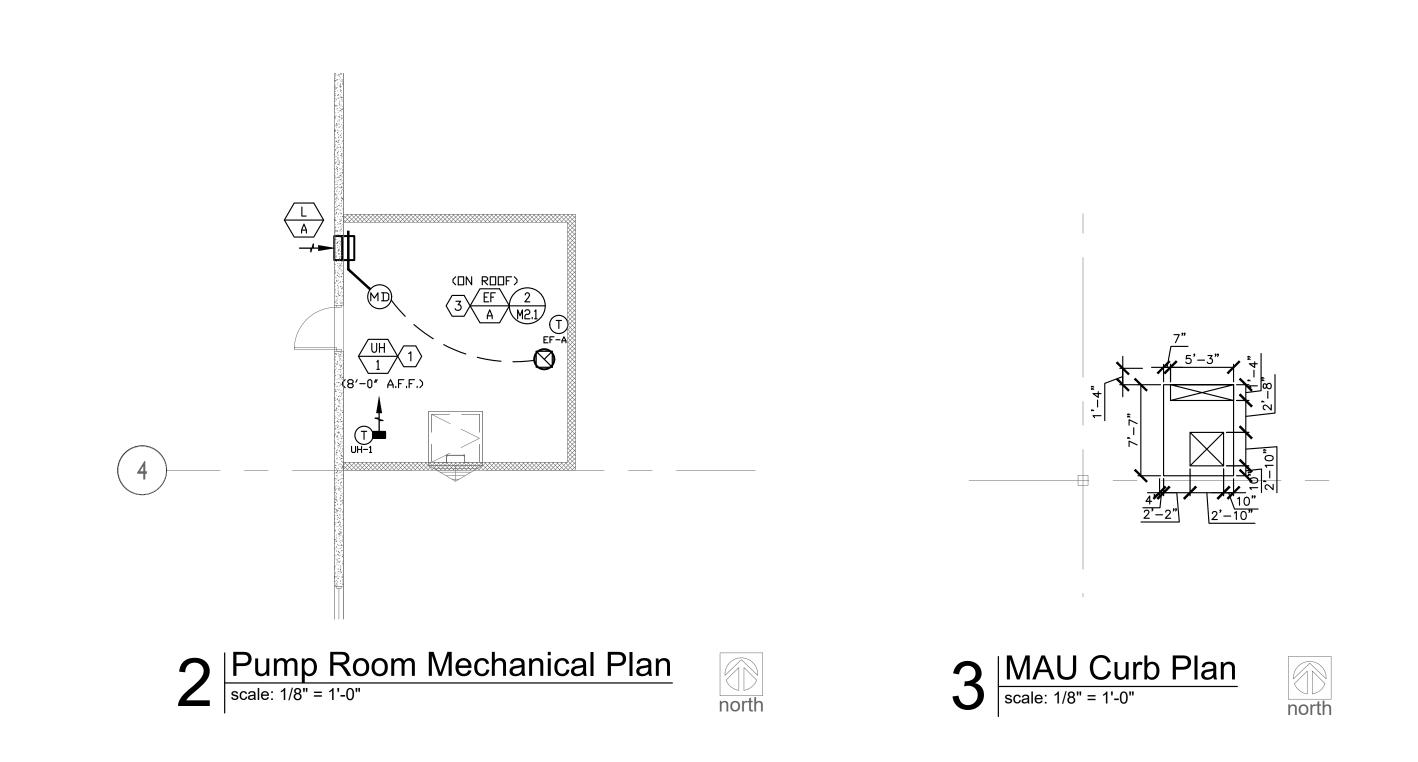
APPROVED BY: M.D.K.

PERMIT

SCALE: AS NOTED DATE: 8/1/22 DRAWN BY: M.D.K.

DWG #

M1.1



MECHANICAL GENERAL NOTES:

1. ALL MECHANICAL DUCTWORK SHALL BE GALVANIZED STEEL, CONSTRUCTED ACCORDING TO SMACNA STANDARDS.

SYSTEM DESIGN: 253,96 SF

WALLS - UN-INSULATED

ASHRAE DESIGN TEMPERATURE - (+)5° F

INDOOR DESIGN TEMPERATURE - 55° F

ROOF - R-20

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

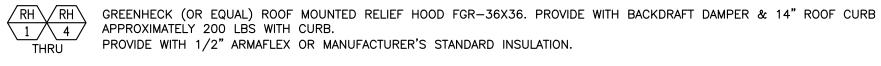
MECHANICAL PLAN NOTES:

- $\langle 1 \rangle$ ELECTRIC UNIT HEATER FURNISHED BY MECHANICAL, INSTALLED BY ELECTRICAL CONTRACTOR.
- (2) GAS-FIRED MAKE-UP AIR UNIT PER SCHEDULE. ELECTRICIAN TO INSTALL THERMOSTAT/CONTROLLER ON NEAREST COLUMN AT 10'-0" A.F.F. (OR PER TENANT) SUPPLY AIR 32"X32", RETURN AIR 62"X14"
- EXTEND 16X16 EXHAUST DUCT DOWN BELOW STRUCTURE WITH MESH OPENING. EXHAUST FAN TO BE CONTROLLED BY LINE VOLTAGE THERMOSTAT.
- ROOF MOUNTED RELIEF AIR HOOD WITH BACKDRAFT DAMPER PER LEGEND. PROVIDE 36"X36" DUCTWORK DROP THRU ROOF WITH DAMPER INSTALLED AT BOTTOM.

- DAYTON UNIT HEATER 10 KW, 460/3 PHASE PROVIDE WITH UNIT MOUNTED THERMOSTAT. MOUNT BOTTOM OF HEATER 8'-0" A.F.F.
- GREENHECK (OR EQUAL) INTAKE LOUVER MODEL ESD635, 24"X24" WITH BIRDSCREEN AND MOTORIZED 120V DAMPER.

 MOUNT BOTTOM OF LOUVER 6'-0" A.F.F.

 LOUVER TO BE INTERLOCKED WITH ROOF MOUNTED EXHAUST FAN FE-A. LOUVER TO BE INTERLOCKED WITH ROOF MOUNTED EXHAUST FAN EF-A.
- GREENHECK (OR EQUAL) ROOF MOUNTED EXHAUST FAN MODEL G-123, 1/3 HP @ 120/1 PHASE. PROVIDE WITH BACKDRAFT DAMPER, 14" ROOF CURB AND LINE VOLTAGE THERMOSTAT. FAN SIZED FOR 1,500 CFM @ 0.25 ESP.



MAKE-UP AIR UNIT ON ROOF REFER TO EQUIPMENT SCHEDULE.

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
- 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
- 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

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
- 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.

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:

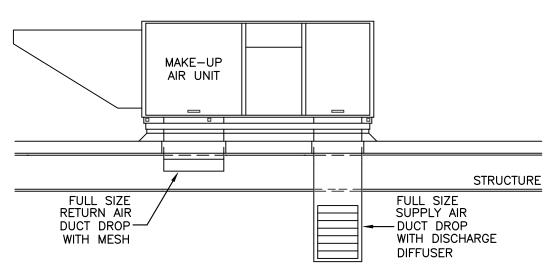
A. Clean system by operating at least three hours prior to final acceptance with temporary filters. Remove all filters

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

1.10 TESTING AND ADJUSTING:

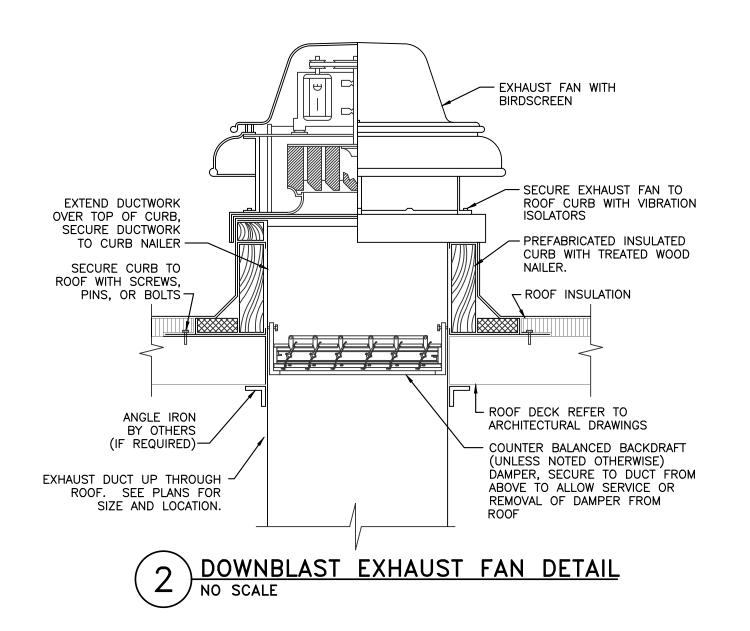
A. Contractor shall operate and test the air conditioning and ventilation systems and instruct the Owner in its operation. Perform a series of general capacity and operating tests. The tests shall demonstrate the specified capacities of various pieces of equipment.

END OF SECTION



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





MARK	MANUFACTURER	AREA	QUANTITY	MODEL	SUPPLY FAN			Y FAN GAS HEAT EXCHANGER		-	ELECTRIC	AL	WEIGHT	FIXED OUTSIDE	MIN.	NOTES		
		SERVED	20		CFM	ESP (IN)	RPM	HP	INPUT (MBH)	OUTPUT (MBH)	TEMP RISE (°F)	MCA	MOCP	V/PH	(LBS) W/ CURB	AIR (%)	EFF	
MAU-1	RUPP	WAREHOUSE	1	RAM-M 25	21,500	0.15	649	20.0	1,250	1,150	49 °F	32.0	50	460/3	3,000	20% / 4,300 CFM	90%	A - J
MAU-2	RUPP	WAREHOUSE	1	RAM-M 25	21,500	0.15	649	20.0	1,250	1,150	49 °F	32.0	50	460/3	3,000	20% / 4,300 CFM	90%	A - J
MAU-3	RUPP	WAREHOUSE	1	RAM-M 25	21,500	0.15	649	20.0	1,250	1,150	49 °F	32.0	50	460/3	3,000	20% / 4,300 CFM	90%	A - J
MAU-4	RUPP	WAREHOUSE	1	RAM-M 25	21,500	0.15	649	20.0	1,250	1,150	49 °F	32.0	50	460/3	3,000	20% / 4,300 CFM	90%	A - J

REQUIRED VENTILATION

3,809 CFM F

NOTES:

- STARTERS FOR ALL MOTORS SHALL BE FURNISHED INTEGRAL WITH UNIT.
- EQUIPMENT SIZED FOR (+)5 DEGREE F AMBIENT TEMPERATURE AND 55 DEGREE F INDOOR TEMPERATURE.
- PROVIDE WITH MANUFACTURER'S STANDARD OUTSIDE AIR FILTERS.
- PROVIDE MANUFACTURER'S STANDARD ROOF CURB WITH MINIMUM HEIGHT OF 14".
- PROVIDE WITH REMOTE PANEL/TEMPERATURE SENSOR FOR UNIT CONTROL. INSTALL CONTROLLER ON NEAREST COLUMN OR PER PLANS AS NOTED.
- PROVIDE WITH 3-WAY DISCHARGE AIR DIFFUSER.
- PROVIDE WITH CURB DUCT HANGER AND FREEZESTAT. PROVIDE WITH MANUFACTURER'S STANDARD MOTORIZED DISCHARGE DAMPER.
- GFCI OUTLET BY OTHERS.

OUTSIDE AIR CALCULATIONS									
UNIT	OCCUPANCY	AREA	PEOPLE	FIXED	QUANTITY	REQUIRED	REQUIRED	TOTAL	NOTES
SERVED	CLASSIFICATION	(SQ. FT.)	PER 1,000 SQ. FT.	SEATING QUANTITY	OF PEOPLE	OUTSIDE AIR PER PERSON	OUTSIDE AIR PER SQ. FT.	REQUIRED (CFM)	
MAU-1	WAREHOUSE	63,490					0.06	3,809	Α
	REQUIRED VENTILATION 3,809 CFM								CFM B
MAU-2	WAREHOUSE	63,490					0.06	3,809	А
	REQUIRED VENTILATION 3,809 CFM B								
MAU-3	WAREHOUSE	63,490			****		0.06	3,809	А
						REQUIRE	D VENTILATION	3,809	CFM B
MAU-4	WAREHOUSE	63,490					0.06	3,809	А

.. VALUES TAKEN FROM ASHRAE 62.1-2010 - VENTILATION FOR ACCEPTABLE INDOOR AIR QUALITY. :. VENTILATION FOR EACH MAU TO BE 20% OF DESIGN SUPPLY AIR. REFER TO EQUIPMENT SCHEDULE FOR ACTUAL AMOUNT. MAKE-UP AIR UNIT - 50/50 OUTDOOR AIR HEATING AND VENTILATION (MAU-1 THRU MAU-4)

THE BUILDING SHALL BE HEATED TO MAINTAIN 55° F AT $+5^{\circ}$ F AMBIENT TEMPERATURE BY MEANS OF ROOF MOUNTED MAKEUP AIR UNITS. THE UNITS INCLUDE MODULATING RETURN AND OUTDOOR AIR DAMPERS WHICH OPERATE BASED ON BUILDING PRESSURE. THERMOSTAT/UNIT CONTROLLER SHALL BE MOUNTED 10'-0" A.F.F. ON THE BUILDING COLUMN NEAREST TO EACH UNIT (OR AS SHOWN).

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

MAU SETBACK MODE/UNOCCUPIED:

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

ELECTRIC FIRE PUMP ROOM HEAT AND VENTILATION (EF-A, L-A & UH-1)

SYSTEM SHALL CONSIST OF AN EXHAUST FAN WITH COOLING-ONLY LINE VOLTAGE THERMOSTAT, LOUVER DAMPER WITH 120V FACTORY-PROVIDED ACTUATOR, AND ELECTRIC UNIT HEATER WITH UNIT-MOUNTED THERMOSTAT. THE LOUVER SHALL BE SPRING-CLOSED/POWER-OPEN TO FAIL CLOSED UPON A LOSS OF POWER.

THE 120V MOTORIZED DAMPER SHALL BE INTERLOCKED TO OPEN THE MOTORIZED DAMPER WHEN THE

L-A LOUVER AND MOTORIZED DAMPER:

MINIMUM TEMPERATURE OF 55°F (ADJ) IN THE ROOM.

EXHAUST FAN IS ENERGIZED AND CLOSE THE DAMPER WHEN THE EXHAUST FAN IS DE-ENERGIZED. EF-A EXHAUST FAN: THE EXHAUST FAN SHALL BE CONTROLLED BY A SPACE MOUNTED COOL-ONLY LINE VOLTAGE

THERMOSTAT. THE THERMOSTAT WILL ENERGIZE AND DE-ENERGIZE THE EXHAUST FAN TO MAINTAIN A

TEMPERATURE OF 90°F (ADJ) IN THE ROOM. THE EXHAUST FAN SHALL BE INTERLOCKED TO OPEN THE LOUVER/DAMPER WHEN THE EXHAUST FAN IS ENERGIZED AND CLOSE THE DAMPER WHEN THE

EXHAUST FAN IS DE-ENERGIZED.

UH-1 HEATING: THE ELECTRIC UNIT HEATER SHALL BE CONTROLLED BY A HEAT-ONLY UNIT-MOUNTED THERMOSTAT. THE THERMOSTAT WILL ENERGIZE AND DE-ENERGIZE THE ELECTRIC UNIT HEATER TO MAINTAIN A

APPROVED BY: M.D.K.

PERMIT

DWG #

THIS DRAWING AND THE IDEAS, DESIGNS

ROJECT INFORMATION

BUILDING C LOT 3

X CORNER OF **NE TUDOR RD & MAIN ST**



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Metro Air	220010
LEE'S SUMMIT LOGISTICS BLDG. #3	220019
NE TUDOR RD AND MAIN ST - LEE'S SUMMIT, MO	
SCALE: AS NOTED DATE: 8/1/22 DRAWN BY: M.D.K.	



INDIANAPOLIS, IN 46216

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LEE'S SUMMIT LOGISTICS

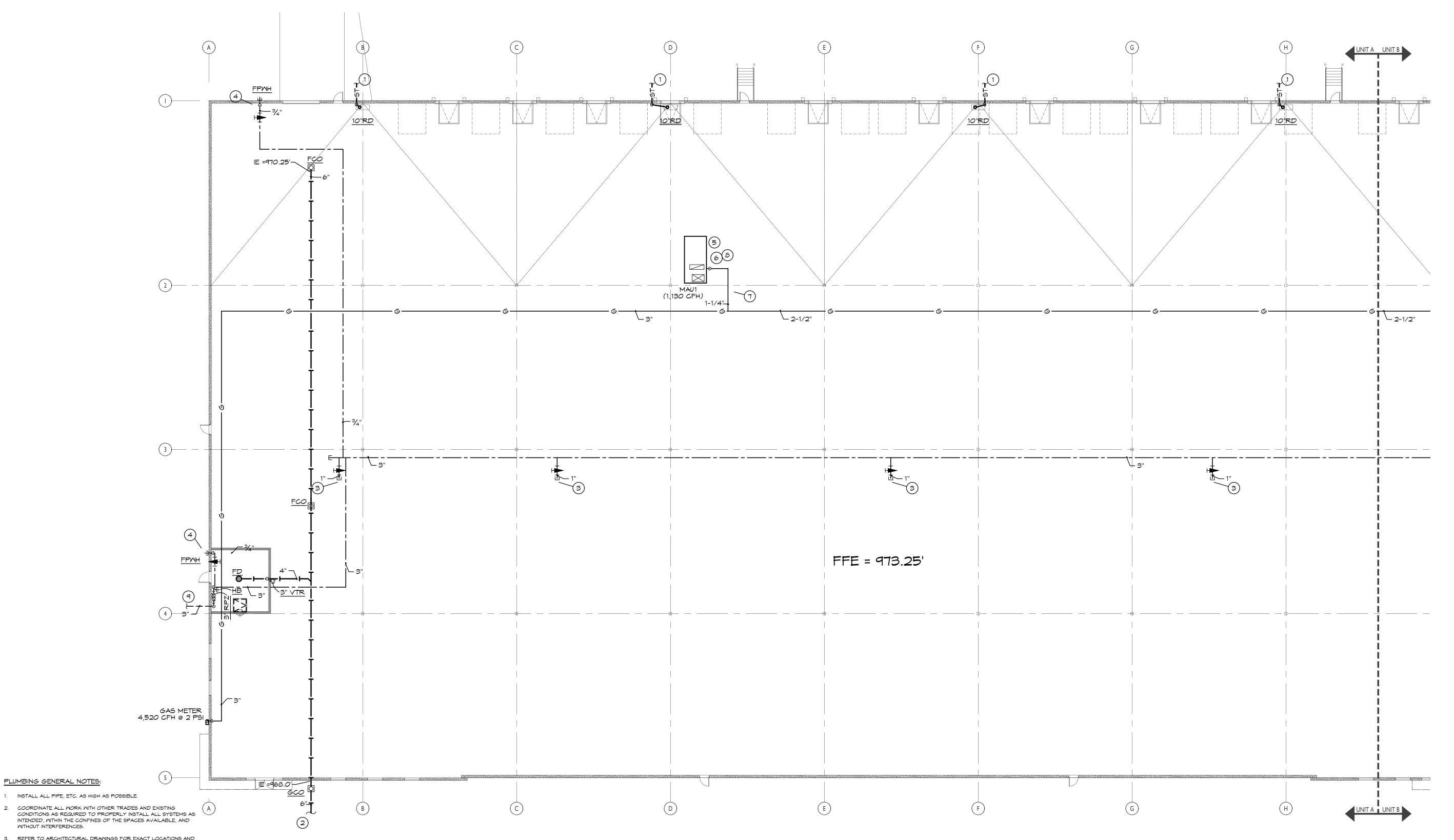
LEE'S SUMMIT, MO 64086



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LEE'S SUMMIT LOGISTICS BUILDING C LOT 3

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

PLUMBING GENERAL NOTES:

- 1. INSTALL ALL PIPE, ETC. AS HIGH AS POSSIBLE.
- WITHOUT INTERFERENCES. 3. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF FIXTURES. 4. REFER TO ARCHITECTURAL & STRUCTURAL DRAWINGS FOR
- SUPPORT SYSTEMS FROM THE STRUCTURE. 5. NO PIPING SHALL BE ROUTED OVER THE TOP OF ELECTRICAL PANELS.

REQUIREMENTS FOR SUPPORTING PIPING, EQUIPMENT, ETC. FROM THE STRUCTURE. PROVIDE ADDITIONAL STEEL AS REQUIRED TO PROPERLY

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 <u>—</u>6— FORCE MAIN PIPING BELOW FLOOR/GRADE PIPING TURNING UP TEE TOP CONNECTION FCO O FLOOR CLEAN OUT MALL CLEAN OUT GRADE CLEAN OUT VALVE PRESSURE REGULATOR

CONNECT TO EXISTING

INVERT ELEVATION OF PIPE

PLUMBING PLAN NOTES:

REFER TO CIVIL FOR 8" STORM PIPE. MAINTAIN A MIN. OF 24" COVER. REFER TO CIVIL FOR 8" WASTE PIPE. MAINTAIN A MIN OF 30" COVER. CAP 1" WATER PIPE WITH SHUT-OFF VALVE FOR FUTURE CONNECTION. INSTALL FREEZE PROOF WALL HYDRANT 18" ABOVE GRADE.

CONNECT GAS PIPING TO EQUIPMENT AS DETAILED.

GAS PIPE UP THROUGH ROOF TO MAU CONNECTION. SEAL PENETRATION MEATHER TIGHT.

GAS PIPING BELOW ROOF SUPPORT AS REQUIRED. GAS PIPING ON ROOF. SUPPORT AS REQUIRED AND DETAILED. REFER TO CIVIL FOR CONTINUATION OF 3" DOMESTIC WATER. MAINTAIN A MIN. 48" COVER.



PARTIAL PLUMBING FLOOR PLAN "UNIT A" SCALE: 1/16" = 1'-0"







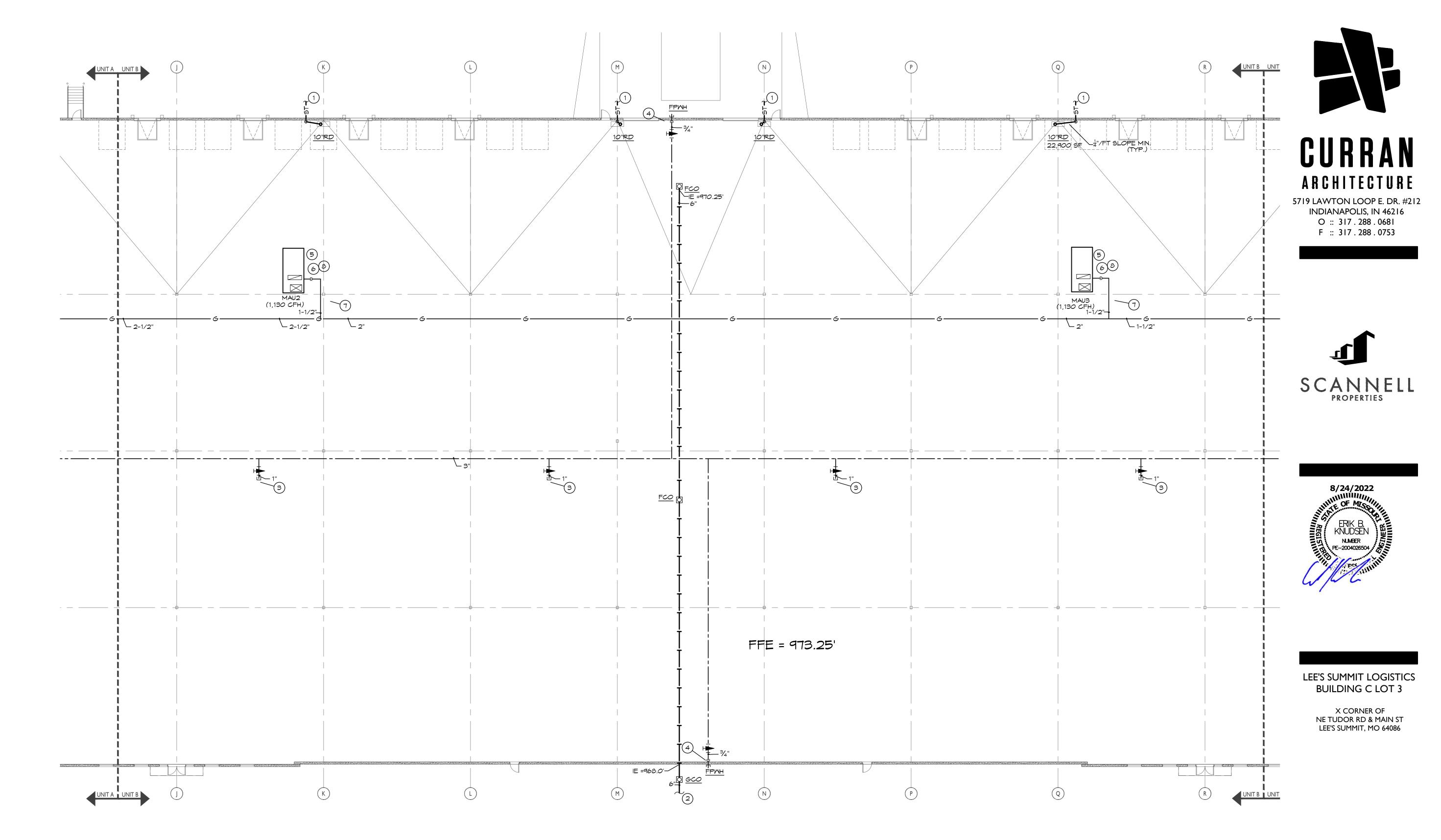
201 East Walnut

Cleveland, MO 64734 816-942-6355

PLUMBING, HEATING & AIR CONDITIONING, INC INCORPORATED 5720 Reeder Shawnee, KS 66203 (913)262-1772

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PLUMBI	NG PLAN	

AREA A



PLUMBING PLAN NOTES:

REFER TO CIVIL FOR 8" STORM PIPE. MAINTAIN A MIN. OF 24" COVER. REFER TO CIVIL FOR 8" WASTE PIPE. MAINTAIN A MIN OF 30" COVER. CAP 1" WATER PIPE WITH SHUT-OFF VALVE FOR FUTURE CONNECTION.

INSTALL FREEZE PROOF WALL HYDRANT 18" ABOVE GRADE. CONNECT GAS PIPING TO EQUIPMENT AS DETAILED.

GAS PIPE UP THROUGH ROOF TO MAU CONNECTION. SEAL PENETRATION MEATHER TIGHT.

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

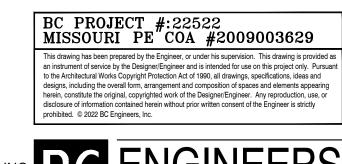


PARTIAL PLUMBING FLOOR PLAN "UNIT B" SCALE: 1/16" = 1'-0"



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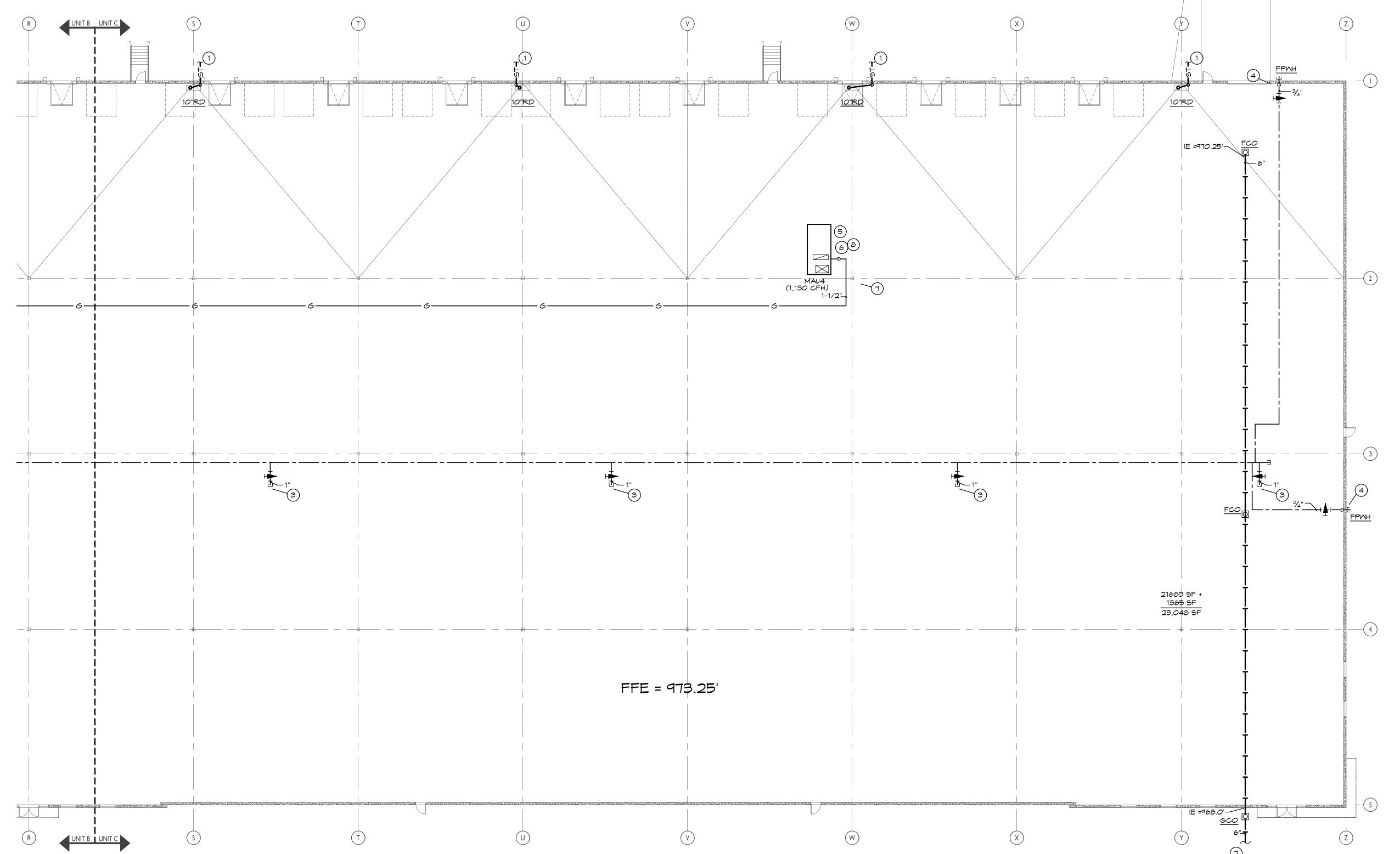


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PLUMBING PLAN AREA B









LEE'S SUMMIT LOGISTICS BUILDING C LOT 3

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

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 CAP 1" WATER PIPE WITH SHUT-OFF VALVE FOR FUTURE CONNECTION.
4 INSTALL FREEZE PROOF WALL HYDRANT 18" ABOVE GRADE.

CONNECT GAS PIPING TO EQUIPMENT AS DETAILED.

GAS PIPE UP THROUGH ROOF TO MAU CONNECTION. SEAL PENETRATION MEATHER TIGHT.

GAS PIPING BELOW ROOF SUPPORT AS REQUIRED.

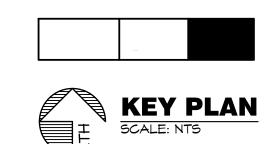
GAS PIPING ON ROOF. SUPPORT AS REQUIRED AND DETAILED.



PARTIAL PLUMBING FLOOR PLAN "UNIT C"

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

FFE = 973.25'



BC PROJECT #:22522
MISSOURI PE COA #2009003629

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Cleveland, MO 64734

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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 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
- 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.

- 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 IMES 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.

- 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) MAREHOUSE 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.

- 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.
- ALL SEMER 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.
- 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. MS5 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
- 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) 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.
- 1. GATE VALVE: JOMAR T/S-301G OR EQUAL. LEAD-FREE NSF 61, ANSI B1.20.1. . GLOBE VALVE: JOMAR TGG OR EQUAL
- B. 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, MS5 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 DMV 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
- FIFE AND 52222 FOR FITTINGS AS FER ASTM D 5965 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 &91. 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 SEMER, SANITARY SEMER, GREASE WASTE, SAND OIL WASTE, AND VENTS. (ABOVE GROUND, INTERIOR TO THE BUILDING).

- ABS SCHEDULE 40 CELLULAR CORE (FOAM CORE) PIPE AND DMV 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 SEMER, SANITARY SEMER, GREASE MASTE, SAND OIL WASTE, AND VENTS. (UNDERGROUND, EXTERIOR TO THE BUILDING).

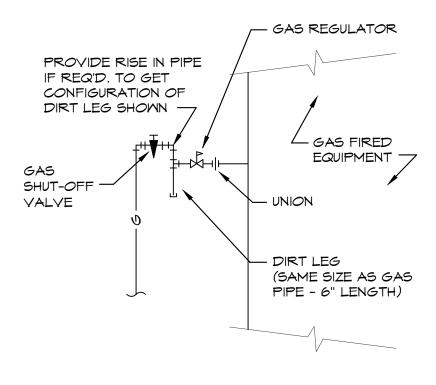
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- 2) PVC SCHEDULE 40 CELLULAR CORE (FOAM CORE) PIPE AND DWV FITTING SYSTEM: (ASTM F1488) PIPE AND FITTINGS SHALL BE MANUFACTURED FROM PVC COMPOUND WITH A CELL CLASS OF 11432 PER ASTM D 4396 FOR PIPE AND 12454 PER ASTM D 1784 FOR FITTINGS AND CONFORM 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.
- 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: ROCKMELL 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
- 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

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.

- 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
- 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" ABOYE ROOF OR EQUAL TO HEIGHT OF PARAPET, WHICHEVER IS GREATER.
- 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 & 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:

SAFING AND CAULK AT EACH END WITH FIRE RESISTANT SEALANT.

- a) DOMESTIC COLD WATER b) DOMESTIC HOT WATER 1" FOR PIPING UP TO 1-1/4" Φ , & 1-1/2" FOR PIPING 1-1/2" Φ AND LARGER
-) HOT WATER RECIRCULATING d) CONDENSATE DRAINS INSIDE BUILDING 1/2" 3/4" FOR PIPING UP TO 1-1/4"\$\Phi\$, \$ 1" FOR PIPING 1-1/2"\$\Phi\$ AND LARGER e) REFRIGERANT SUCTION F) HORIZONTAL STORM PIPE 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.



GAS PRESSURE REGULATORS FOR ROOFTOP UNITS (RTU) AND MAKE-UP AIR UNITS (MAU) SHALL BE SENSUS #143-80-2, 2 PSI INLET / 7" WC OUTLET PRESSURE WITH THE ORIFICE & SPRING SIZE AS RECOMMENDED BY THE MANUFACTURER.

GAS CONNECTION DETAIL

FOR ROOFTOP UNITS, MAKE-UP AIR UNITS,

ETC. WITH 2 PSI GAS PRESSURE

SCALE: NONE

<u>FPWH</u>

PROVIDE PRESSURE

REDUCING VALVE IF

SUPPLY PRESSURE

EXCEEDS 80 PSI.

REFER TO

CIVIL

ROOF

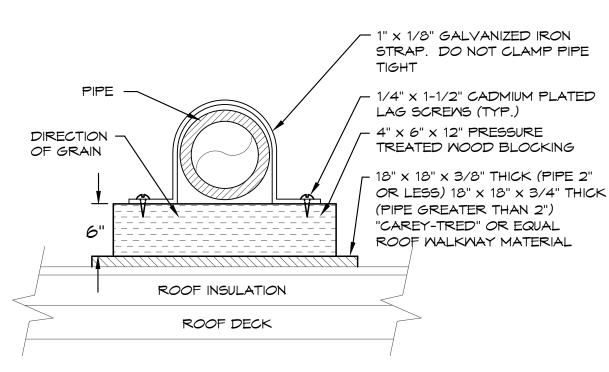
CEILING

FLOOR

REFER TO CIVIL

PLANS FOR

CONTINUATION.



<u>FPWH</u>

FPMH

ROOF PIPE SUPPORT DETAIL SCALE: NONE



5719 LAWTON LOOP E. DR. #212

INDIANAPOLIS, IN 46216

O :: 317 . 288 . 0681

F :: 317.288.0753



LEE'S SUMMIT LOGISTICS **BUILDING C LOT 3**

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

PLUMBING RISER DIAGRAMS

REFER TO CIVIL

PLANS FOR

CONTINUATION.

MASTE & VENT

201 East Walnut

Cleveland, MO 64734 816-942-6355

- 3/4"

<u>FPWH</u>

GCO FCO FCO

<u>FPWH</u>

HOT & COLD WATER

GCO FCO FCO

PLUMBING FIXTURE SCHEDULE: (OR EQUAL)

FLOOR DRAIN: JR SMITH, #2005-A, CAST IRON FLOOR DRAIN WITH ADJUSTABLE TOP, 6" NIKALOY STRAINER. PROVIDE WITH #2692 QUAD CLOSE TRAP SEAL DEVICE.

REFER TO CIVIL

PLANS FOR

CONTINUATION.

- WAREHOUSE FLOOR FLOOR CLEANOUT: JR SMITH #4100, OR EQUAL
- GRADE CLEANOUT: JR SMITH #4256, OR EQUAL
- FREEZEPROOF WALL HYDRANT: JR SMITH #5609, 3/4" SIZE, NICKEL-BRONZE FACE, KEY OPERATED, INTEGRAL VACUUM BREAKER.
- HOSE BIBB: WOODFORD, #24, 3/4" HOSE NOZZLE OUTLET, BRASS FINISH, HANDWHEEL OPERATED, INTEGRAL VACUUM BREAKER.
- REDUCED ZONE PRESSURE BACKFLOW PREVENTOR: WATTS #LF009, LEAD FREE BRONZE BODY CONSTRUCTION, TWO, IN-LINE INDEPENDENT CHECK VALVES, REPLACEABLE CHECK SEATS WITH AN INTERMEDIATE RELIEF VALVE, AND BALL VALVE TEST COCKS.

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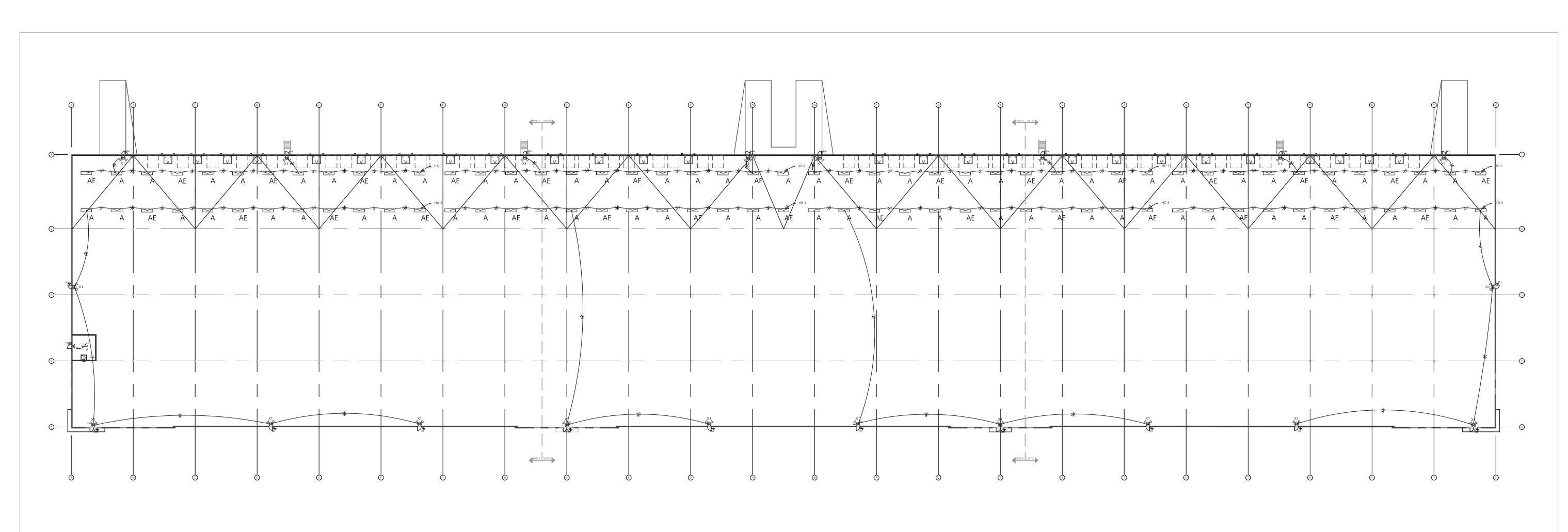
CENTRAL INCORPORATED 5720 Reeder Shawnee, KS 66203 (913)262-1772

220018 PLUMBING SPECIFICATIONS

PRELIMINARY SET

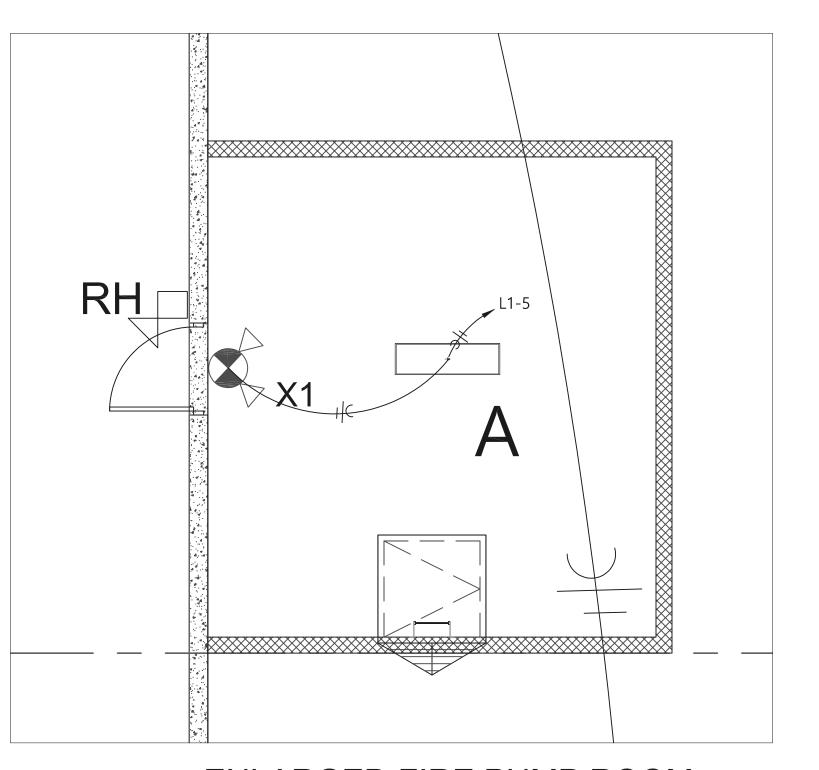
07.01.22

08.24.22



LIGHTING PLAN

1" = 40'



ENLARGED FIRE PUMP ROOM

1/4" = 1'

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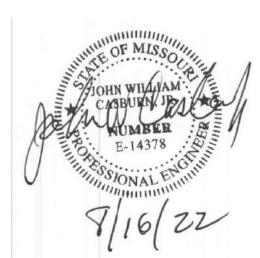
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PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING C LOT 3

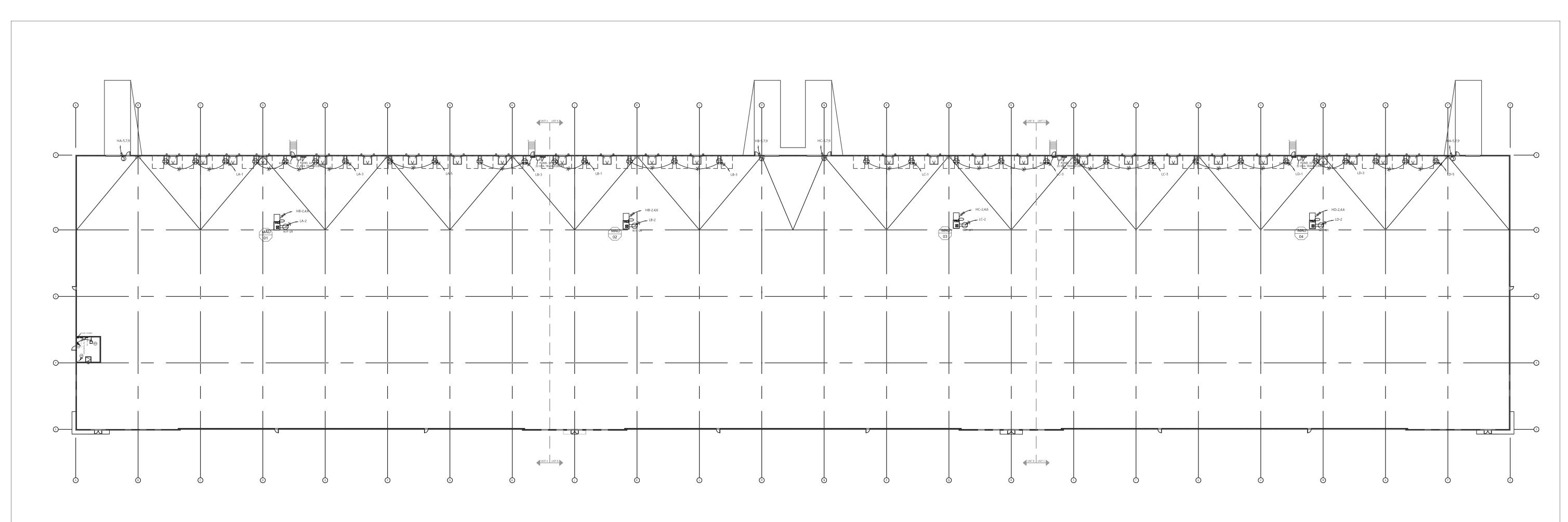
X CORNER OF NE TUDOR RD & MAIN ST LEE'S SUMMIT, MO 64086



	ISSUE DA	TES
PERMIT SET		04
PUMP ROOM	MOVE	90
	220019	
	220017	

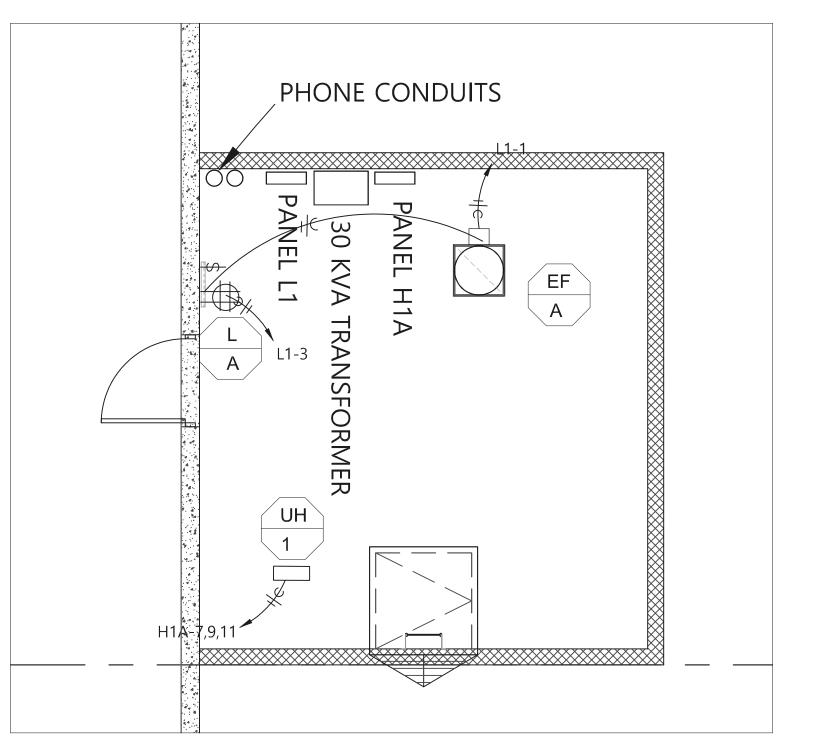
E1.00

LIGHTING PLAN



POWER PLAN

1" = 40'



ENLARGED FIRE PUMP ROOM

1/4" = 1'

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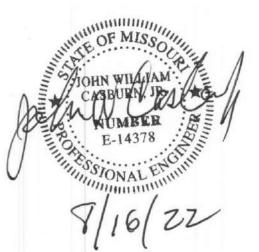
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PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING C LOT 3

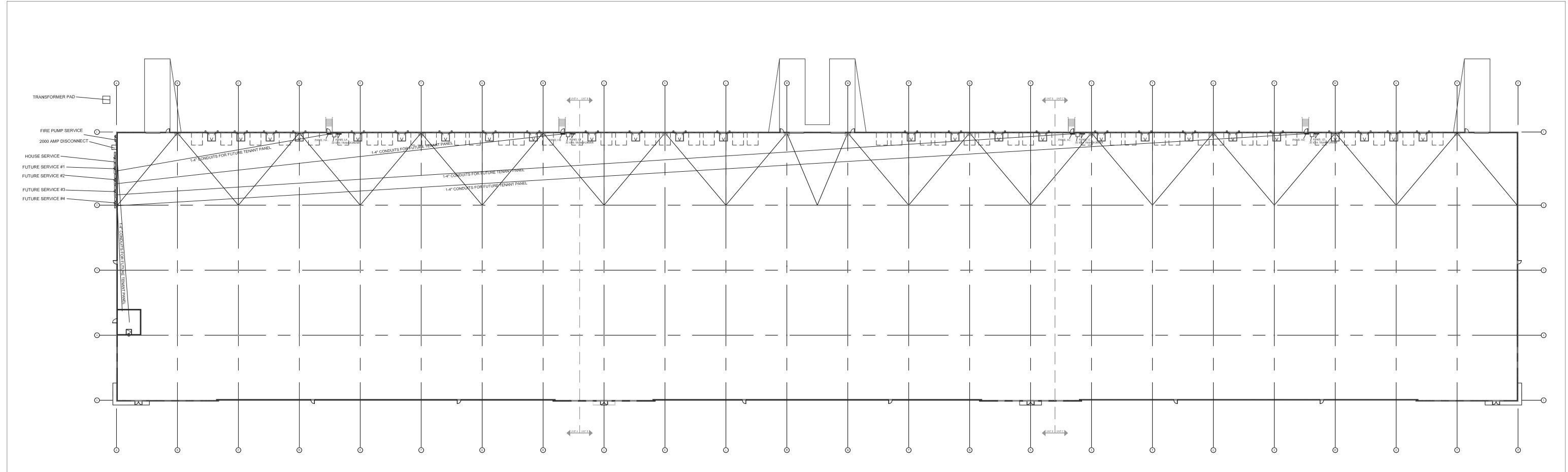
X CORNER OF NE TUDOR RD & MAIN ST LEE'S SUMMIT, MO 64086



	ISSUE	DATE	:S
PERMIT SET			04.26.22
PUMP ROOM	MOVE		08.16.22
	22	0019	

E2.00

POWER PLAN



UNDERGROUND PLAN

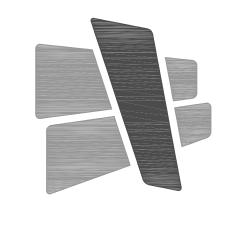
1" = 40'

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



CERTIFICATION

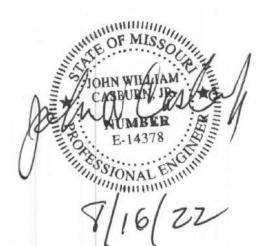
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PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING C LOT 3

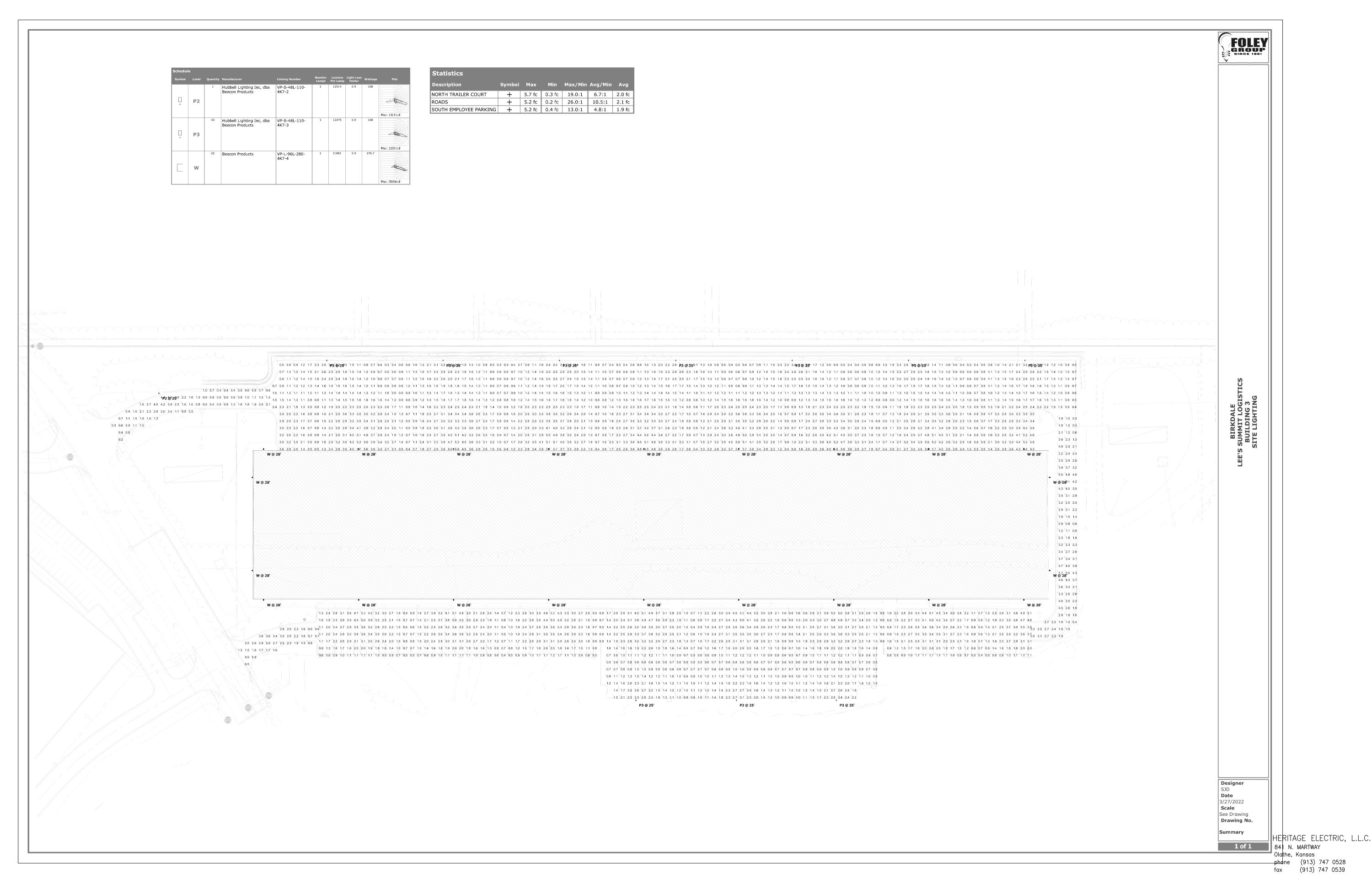
X CORNER OF NE TUDOR RD & MAIN ST LEE'S SUMMIT, MO 64086



PERMIT SET	04.3
PUMP ROOM MOVE	08.

E3.00

UNDERGROUND







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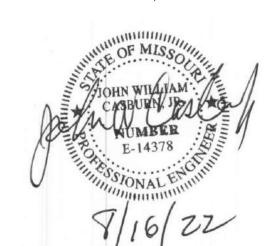
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PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING C LOT 3

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

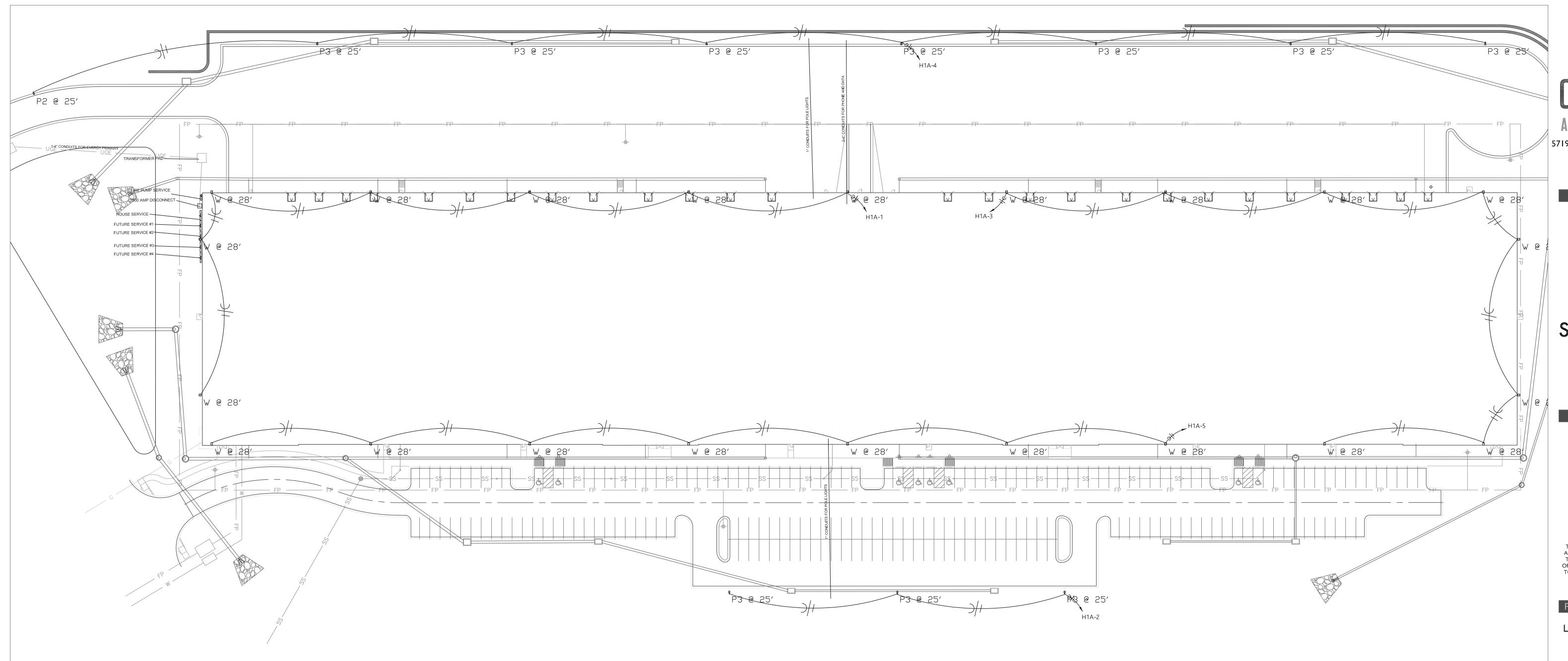


PERMIT SET	04.26.22
PUMP ROOM MOVE	08.16.22

220019

PHOTOMETRIC

E4.00



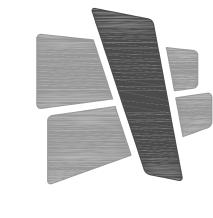
1 SITE PLAN
1" = 500'

HERITAGE ELECTRIC, L.L.C. 841 N. MARTWAY Olathe, Kansas phone (913) 747 0528 fax (913) 747 0539



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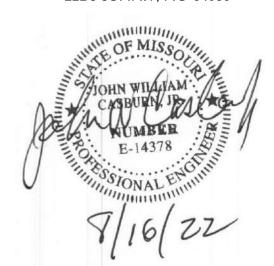
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PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS

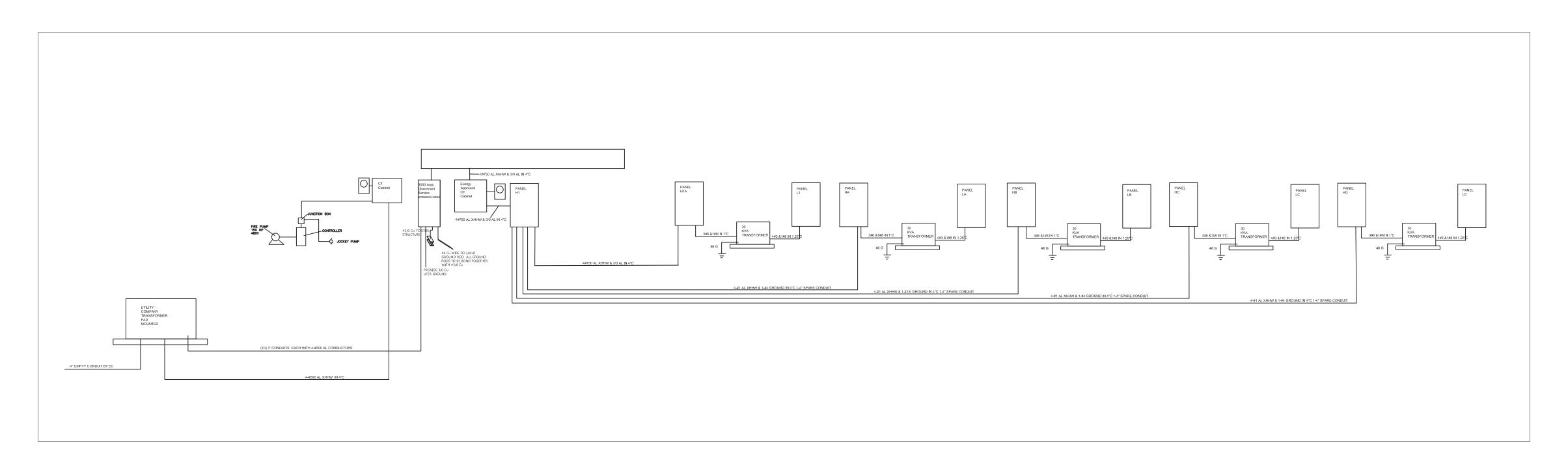
X CORNER OF NE TUDOR RD & MAIN ST LEE'S SUMMIT, MO 64086

BUILDING C LOT 3



	ISSUE DAT	ES
PERMIT SET		04.26.2
PUMP ROOM	MOVE	08.16.2
	220019	
	SITE	

E5.00



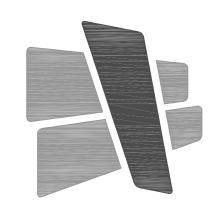


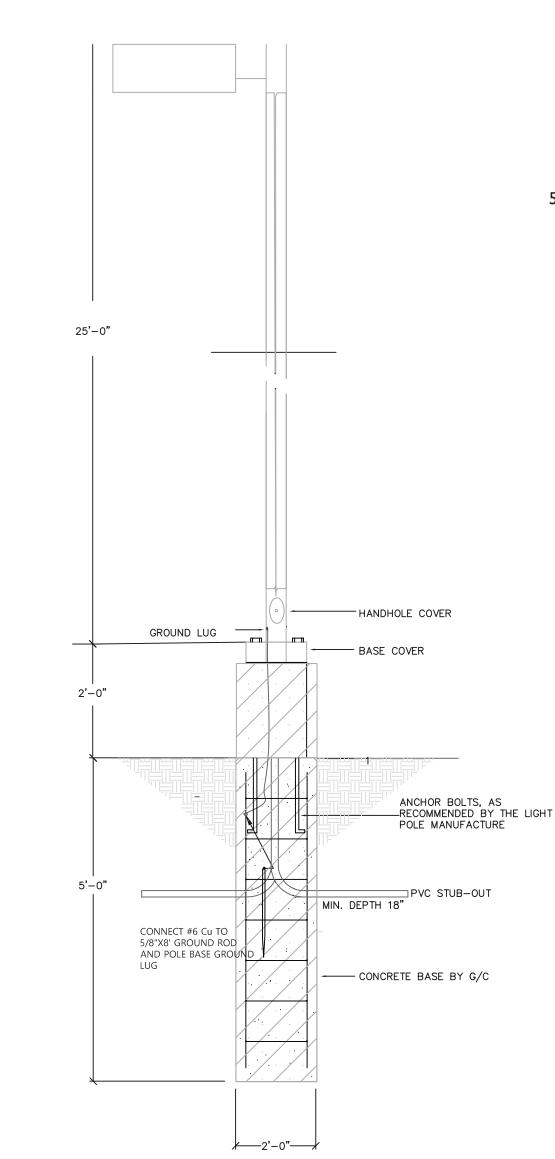
COMcheck Software Version 4.1.1.0 Interior Lighting Compliance Certificate Project Information Energy Code:				
Project Information				
Project Title:	Lee's Summit Logistics Building	#3		
Corner of Tudor Rd & Mair		Jeremy I Heritage 841 N. N Olathe, 913-747	Hansen Electric Hartway Drive KS 66061 -0528	c.com
Allowed Interior Lightin	ng Power			
		Floor Area	Allowed	Allowed Watts
1-Warehouse				
Fixture ID : Des		st Lamps/	# of Fix	ture (C X D)
		T IX COLO		
		1		
LED 1: Other:	Sentitude Sent When the Base Base Hearth	1		
Interior Lighting PASSE Interior Lighting Compl Compliance Statement: Th specifications, and other ca designed to meet the 90.1 mandatory requirements list	liance Statement e proposed interior lighting design represented culations submitted with this permit applications (2016) Standard requirements in COMcheck Vo	d in this document is c	Total Proposed V onsistent with the	vatts = 19740 te building plans, tms have been

	LIGHT FIXTURE SCHEDULE												
TYPE	MANUFACTURER	CATALOG NO.	LAMPS	MOUNTING	VOLTS	REMARKS							
A	GE Lighting	ABC1X304790Q	LED	CEILING	277	PROVIDE WITH INTEGRAL OCCUPANCY SENSOR							
AE	GE Lighting	ABC1X30479Q	LED	CEILING	277	SAME AS TYPE A WITH EMERGENCY BALLAST							
X1	Compass	CCR	LED	WALL	277	OR EQUAL							
RH	Compass	CUWZ-PC	LED	WALL	277	OR EQUAL							
P2	Hubbell	VP-S-48L-110-4K7-2	LED	POLE LIGHT	277	OR EQUAL							
Р3	Hubbell	VP-S-48L-110-4K7-3	LED	POLE LIGHT	277	OR EQUAL							
W	BEACON	VP-L-96L-280-4K7-4	LED	WALL PACK	277	OR EQUAL							

ELECTRICAL GENERAL NOTES

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





5719 LAWTON LOOP E. DR. #212

INDIANAPOLIS, IN 46216 O :: 317 . 288 . 0681 F :: 317.288.0753

SCANNELL PROPERTIES

CERTIFICATION

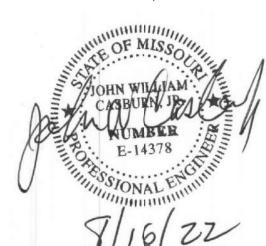
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PROJECT INFORMATION

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LEE'S SUMMIT LOGISTICS BUILDING C LOT 3

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



ISSUE DA	IES
PERMIT SET	04.26
PUMP ROOM MOVE	08.16

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phone (913) 747 0528

fax (913) 747 0539

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841 N. MARTWAY

Olathe, Kansas

220019

PANE	L: H1 400	A MB	277	7 480 V, 3PH,	4W.+GRND.				NEW		
CCT	SERVES	VA	OCP	WIRE	PHASE	WIRE		OCP	VA	SERVES	ССТ
1	PANELHA	10368	100/3	4-#1 AL-1-#6G	A	4-#1 AL-1-#6G		100/3	10168	PANEL HC	2
3		10168			В				9968		4
5		7648			С				7848		6
7	PANELHB	10158	100/3	4-#1 AL-1-#6G	A	4-#1 AL-1-#6G		100/3	10158	PANE HD	8
9		9859			В				9958		10
11		7648			С				7648		12
13	PANELH1A	9017	100/3	4-#1 AL-1-#6G	A						14
15		8261			В						16
17		8213			С						18
19					A						20
21					В						22
23					С						24
25					A						26
27					В						28
29					С						30
31					A						32
33					В						34
35					С						36
37					A						38
39					В						40
41					С						42
NOTES:					LOAD SUI	MMARY	CONN	NEC	DEM	LOAD BALANCE PER PHASE	
	1 NEMA 3R ENCLOSURE				1-LIGHTIN		0			PHASEA	49
	2 PROVIDE BOLT ON BREAKERS				2-RECEPT		137088	NEC		PHASEB	48
	3				3-KITCHE		0			PHASEC	39
					4-HVAC	-	0			LOWEST PHASE PLUS 10%	
					5-NON-CO	NT	0		1	39005 + 10%	4290
					LARGEST		0		(REBALANCE LOADS	
					TOTALVA	A	137088		7354	1	
					TOTALA		164.9		88.5		

Γ	SERVES	VA	OCP	WIRE	PHASE	WIRE		OCP	VA	SERVES	CCT
1	WALL PACKS	1937	20/1	2-#12,1-#12G	A	2#12-1#12G		20/1	1080	POLE LIGHTS	2
3	WALL PACKS	1937	20/1	2-#12-1-#12G	В	2#12-1#12G		20/1	324	POLE LIGHTS	4
5	WALL PACKS	2213	20/1	2-#12-1-#12G	С						6
7	UNITHEATER	5000	30/3	3-#10-1-#12G	A						8
9		5000			В						10
11		5000			С						12
13					A						14
15					В						16
17					С						18
19					A						2
21					В						2
23					С						2
25					A						2
27					В						2
29					С						3
31					A						3
33					В						3
35					С						3
37					A	3-#8, 1#10G		50/3	1000	TRANSFORMER	3
39					В			-	1000	TRANSFORMER	4
41					С			-	1000	TRANSFORMER	4
ES:					LOAD SUM	IMARY	CONN	NEC	DEM	LOAD BALANCE PER PHASE	
	1 NEMA 1 ENCLOSURE				1-LIGHTING		7491	1.25		PHASEA	
	2 PROVIDE BOLT ON BREAKERS				2-RECEPTA		3000	NEC		PHASEB	
	3				3-KITCHEN		0	0.65		PHASEC	
					4-HVAC		15000	1		LOWEST PHASE PLUS 10%	
					5-NON-CON	NT .	0	1	-	8213 + 10%	,
					LARGEST		0	0.25	1	PHASES ARE BALANCED	
					TOTALVA		25491		27363.75		
					TOTALAM		30.7		32.9	≟	

PANE	L: L1 10	0 MB	120	/ 208 V, 3PH,	4W.+GRND					NEW	
CCT	SERVES	VA	OCP	WIRE	PHASE	WIRE	1	OCP	VA	SERVES	CCT
1	EXHAUST FAN	250	20/1	2-#12,1-#12G	A					SPARE	2
3	GFCI RECEP	200	20/1	2-#12,1-#12G	В					SPARE	4
5	LIGHT	199	20/1	2-#12,1-#12G	С					SPARE	6
7	SPARE				A					SPARE	8
9	SPARE				В					SPARE	10
11	SPACE				С	-				SPACE	12
13	SPACE				A	-				SPACE	14
15	SPACE			-	В	-			1	SPACE	16
17	SPACE		1		С	-				SPACE	18
19	SPACE			-	A	-				SPACE	20
21	SPACE			2	В					SPACE	22
23	SPACE			-	С	-				SPACE	24
25	SPACE		10		A					SPACE	26
27	SPACE				В					SPACE	28
29	SPACE		1	550	С	-				SPACE	30
31	SPACE				A					SPACE	32
33	SPACE				В					SPACE	34
35	SPACE	T.			С					SPACE	36
37	SPACE		1	Ē	A	-			1	SPACE	38
39	SPACE				В				1	SPACE	40
41	SPACE			-	С					SPACE	42
	-72		100	-33	,			Net September 1	UISC .		
NOTES:					LOAD SUN	MINDOWS .	CONN	NEC	7.300	LOAD BALANCE PER PHASE	
	1 NEMA 1 ENCLOSURE				1-LIGHTING		199	1.25	T	PHASE A	2
	2 PROVIDE BOLT ON BREAKERS				2-RECEPT	Stavenes	200	NEC		PHASE B	20
	3				3-KIT CHEN		0	0.65		PHASEC	19
					4-HVAC		250	1	250	LOWEST PHASE PLUS 10%	
					5-NON-COI		0	1	0	199 + 10%	218
					LARGEST		0	0.25		REBALANCE LOADS	
					TOTAL VA		649		698.75	1	
					TOTAL AN	IPS	1.8		1.9	l	

PANEL	: HA	100A MLO	277	/ 480 V, 3PH,	4W.+GRND.				NEW P	ANEL	
ССТ	SERVES	VA	OCP	WIRE	PHASE	WIRE		OCP	VA	SERVES	CCT
1	WAREHOUSE LIGHTS	2520	20/1	2-#12,1-#12G	A	3-#8-1-#10G		40/3	6648	MAU 1	2
3	WAREHOUSE LIGHTS	2520	20/1	2#12-1#12G	В				6648		4
5	OVERHEAD DOOR	200	20/3	4#10-1#12G	С				6648		6
7		200			A						8
9		200			В						10
11					С						12
13					A						14
15					В						16
17				(i.	С						18
19					A						20
21					В						22
23					С						24
25				0	A						26
27					В						28
29					С						30
31					A						32
33			7		В						34
35				() ()	С						36
37					A	3-#8,1#10G		50/3	1000	TRANSFORMER	38
39					В			19-1	800	TRANSFORMER	40
41					С			•	800	TRANSFORMER	42
NOTES:					LOAD SUN	IMARY	CONN	NEC	DEM	LOAD BALANCE PER PHASE	
1	NEMA 1 ENCLOSURE				1-LIGHTING	G	5040	1.25	6300	PHASE A	103
2	PROVIDE BOLT ON BREAKERS				2-RECEPT /	ACLES	2600	NEC	2600	PHASE B	101
3					3-KITCHEN		0	0.65	(PHASE C	76
					4-HVAC		19944	1	19944	LOWEST PHASE PLUS 10%	
					5-NON-COM	NT	600	1	600	7648 + 10%	8412
					LARGEST	MOTOR	0	0.25	(REBALANCE LOADS	
					TOTAL VA	V/	28134		29444		
					TOTAL AN	ine	33.9	1	35.4	1	

PANE	L: LA 100	MB	120	/ 208 V, 3PH,	4W.+GRND.					NEW PANEL	
CCT	SERVES	VA	OCP	WIRE	PHASE	WIRE		OCP	VA	SERVES	ССТ
1	DOCK RECEPS	1200	20/1	2-#12,1-#12G	A	2#12,1#12G		20/1	200	GFCI RECEP	2
3	DOCK RECEPS	1200	20/1	2-#12,1-#12G	В			20/1		SPARE	4
5	DOCK RECEPS	800	20/1		С			20/1		SPARE	6
7	SPARE		20/1	Ť.	A			20/1		SPARE	8
9	SPARE		20/1		В			20/1		SPARE	10
11	SPARE		20/1		С			20/1		SPARE	12
13	SPACE	i.			A					SPACE	14
15	SPACE				В					SPACE	16
17	SPACE				С					SPACE	18
19	SPACE				A					SPACE	20
21	SPACE				В	Î				SPACE	22
23	SPACE		1		C					SPACE	24
25	SPACE	0			A					SPACE	26
27	SPACE				В					SPACE	28
29	SPACE				С					SPACE	30
31	SPACE	13		222	A	3				SPACE	32
33	SPACE				В					SPACE	34
35	SPACE		1		С					SPACE	36
37	SPACE			• .	A	-				SPACE	38
39	SPACE				В					SPACE	40
41	SPACE				С	-				SPACE	42
NOTES:					LOAD SUI	MMARY	CONN	NEC	DEM	LOAD BALANCE PER PHASE	
	1 NEMA 1 ENCLOSURE				1-LIGHTIN	G	0	1.25	0	PHASE A	14
	2 PROVIDE BOLT ON BREAKERS				2-RECEPT	ACLES	3400	NEC	3400	PHASE B	12
	3				3-KITCHE	N	0	0.65		PHASE C	8
					4-HVAC		0	1		LOWEST PHASE PLUS 10%	
					5-NON-CO	NT	0	1		800 + 10%	8
					LARGEST	MOTOR	0	0.25	0	REBALANCE LOADS	
					TOTAL V	4	3400		3400		
					TOTAL A	MDC	9,4		9.4	1	

FANL	L: HB 100A	MLO	211	/ 480 V, 3PH,	4W.+GRND.				NEWP	ANEL	
CCT	SERVES	VA	OCP	WIRE	PHASE	WIRE		OCP	VA	SERVES	CCT
1	WAREHOUSE LIGHTS	2310	20/1	2-#12,1-#12G		3#8-1-#10G		40/3	6648	MAU1	2
3	WAREHOUSE LIGHTS	2211	20/1	2-#12-1-#12G	Ţ.				6648		4
5	OVERHEAD DOOR	200	20/3	4-#10-1-#12G					6648		(
7	Ĭ,	200		Ĭ.							
9		200									1
11											1
13											
15											
17	Ü/L			3							1
19											- 2
21									4		- 2
23											- 3
25	1	1									
27		1									
29		-									3
31			1			1			-		3
33		-				+					3
35 37						3-#8.1#10G		50/3	1000	TRANSFORMER	3
39						3-#0, 1# 105		ours -	800	TRANSFORMER	
41	1			*		+	-	-	800	TRANSFORMER	
41	1		1.			1		0.00	000	IRANSFORMER	
NOTES:					LOAD SUI	MMARY	CONN	NEC	DEM	LOAD BALANCE PER PHASE	200
	1 NEMA 1 ENCLOSURE				1-LIGHTIN		4521	1.25		PHASE A	
	2 PROVIDE BOLT ON BREAKERS				2-RECEPT	SULTER SERVICE	2600	NEC	100,000,00	PHASE B	
	3				3-KITCHE	1	0	0.65	10	PHASE C	
					4-HVAC		19944	1	0.000	LOWEST PHASE PLUS 10%	
					5-NON-CO		600	1	600		
					LARGEST	PLOSTER MEDICAL	0	0.25		REBALANCE LOADS	
					TOTAL V	2.5	27665 33.3		28795.25	1	

PANEI	.: LB	100 MB	120	/ 208 V, 3PH,	4W.+GRND.					NEW PANEL	
CCT	SERVES	VA	ОСР	WIRE	PHASE	WIRE		OCP	VA	SERVES	CCT
1	DOCK POWER	800	20/1	2-#12,1-#12G	A	2#12,1-#12G		20/1	200	GFCI RECEP	2
3	DOCK POWER	1200	20/1	2-#12,1-#12G	В			20/1		SPARE	4
5	SPARE		20/1		С			20/1		SPARE	6
7	SPARE		20/1		A			20/1		SPARE	8
9	SPARE		20/1		В			20/1		SPARE	10
11	SPARE		20/1		С			20/1		SPARE	12
13	SPARE		20/1		A			20/1		SPARE	14
15	SPACE				В	-				SPACE	16
17	SPACE				С	-				SPACE	18
19	SPACE				A	-				SPACE	20
21	SPACE				В	-				SPACE	22
23	SPACE			-	С	-				SPACE	24
25	SPACE			_	A	_				SPACE	26
27	SPACE			_	В	_				SPACE	28
29	SPACE			_	С	_				SPACE	30
31	SPACE			_	A	-				SPACE	32
33	SPACE			_	В	_				SPACE	34
35	SPACE			_	С	_				SPACE	36
37	SPACE			-	A	-				SPACE	38
39	SPACE			_	В	_				SPACE	40
41	SPACE			_	С	_				SPACE	42
NOTES:					LOAD SUI	MMARY	CONN	NEC	DEM	LOAD BALANCE PER PHASE	
	1 NEMA 1 ENCLOSURE				1-LIGHT IN		0	1.25		0 PHASEA	10
	PROVIDE BOLT ON BREAKERS				2-RECEPT		2200	NEC		0 PHASEB	12
					3-KITCHE		0	0.65		0 PHASEC	-
,	•				4-HVAC		0	1		0 LOWEST PHASE PLUS 10%	
					5-NON-CO	NT	0	1		0 0 + 10%	
					LARGEST		0	0.25		0 REBALANCE LOADS	
					TOTALVA	A	2200		220	0	
					TOTALA		6.1		6.		

ANE	L: HC	100A MLO	277	/ 480 V, 3PH,	4W.+GRND.				NEW P	ANEL	
т	SERVES	VA	OCP	WIRE	PHASE	WIRE	j	OCP	VA	SERVES	CCT
1	WAREHOUSE LIGHTS	2520	20/1	2-#12,1-#12G	A	3-#8-1-#10G		50/3	6648	MAU1	2
3	WAREHOUSE LIGHTS	2520	20/1	2-#12-1-#12G	В				6648		4
5	OVERHEAD DOOR	200	20/3	4-#10-1-#12G	С		· ·		6648		6
7		200			A						8
9		200			В						10
11					С						12
13					A						14
15					В						16
17					С						18
19					A						20
21					В						22
23					С						24
25					A	Ĭ.					26
27					В						28
29					С	Î					30
31					A						32
33					В		T T				34
35					С	3-#8,1#10G		50/3	1000	TRANSFORMER	36
37					A			8.53	800	TRANSFORMER	38
39					В				600	TRANSFORMER	40
41					С			()			42
ES:					LOAD SUI	MMARY	CONN	NEC	DEM	LOAD BALANCE PER PHASE	
	1 NEMA 1 ENCLOSURE				1-LIGHT IN	G	5040	1.25		PHASE A	10160
	2 PROVIDE BOLT ON BREAKERS				2-RECEPT	ACLES	2400	NEC		PHASE B	996
	3				3-KITCHE	30 900 000 000	0	0.65		PHASE C	784
					4-HVAC	2%	19944	1	100	LOWEST PHASE PLUS 10%	1 122
					5-NON-CO	NT	600	1	600	person and belief didenter to a representation of	8632.8
					LARGEST		0	0.25		REBALANCE LOADS	
					TOTAL VA	A	27984	110 (17 (10 (10 (1)	29244	or instruction of the effect of U.S. S.	
					TOTAL A		33.7		35.2	1	

PANE	L: LC 100	MB	120	/ 208 V, 3PH,	4W.+GRND.					NEW PANEL	
CCT	SERVES	VA	OCP	WIRE	PHASE	WIRE		OCP	VA	SERVES	CCT
1	DOCK POWER	1200	20/1	2-#12,1-#12G	A	2-#12,1-#12G		20/1	200	GFCI RECEP	2
3	DOCK POWER	1200	20/1	2-#12,1-#12G	В			20/1		SPARE	4
5	DOCK POWER	1200	20/1	2-#12,1-#12G	С			20/1		SPARE	6
7	SPARE		20/1		A			20/1		SPARE	8
9	SPARE		20/1		В			20/1		SPARE	10
11	SPARE		20/1		С			20/1		SPARE	12
13	SPACE				A					SPACE	14
15	SPACE				В					SPACE	16
17	SPACE				С	-				SPACE	18
19	SPACE				A	-				SPACE	20
21	SPACE				В					SPACE	22
23	SPACE				С	-				SPACE	24
25	SPACE				A	<u>.</u>		1	11	SPACE	26
27	SPACE	T ₀			В	22				SPACE	28
29	SPACE				С					SPACE	30
31	SPACE				A	÷				SPACE	32
33	SPACE				В					SPACE	34
35	SPACE				С					SPACE	36
37	SPACE				A					SPACE	38
39	SPACE	0			В					SPACE	40
41	SPACE				С					SPACE	42
NOTES:					LOAD SUI	MMARY	CONN	NEC	DEM	LOAD BALANCE PER PHASE	
	1 NEMA 1 ENCLOSURE				1-LIGHT IN	G	0	1.25		0 PHASE A	14
	2 PROVIDE BOLT ON BREAKERS				2-RECEPT	ACLES	3800	NEC	380	0 PHASE B	12
	3				3-КІТСНЕ	N	0	0.65		0 PHASE C	12
					4-HVAC		0	1		0 LOWEST PHASE PLUS 10%	
					5-NON-CO	NT	0	1		0 1200 + 10%	13
					LARGEST	MOTOR	0	0.25		0 REBALANCE LOADS	1
					TOTAL V	A	3800)	380	0	
					TOTAL AL	65.	10.5	1	10		

PANE	L: HD 100	MLO	277	480 V,3PH,4W	/.+GRND.					NEWPANEL	
CCT	SERVES	VA	OCP	WRE	PHASE	WIRE		OCP	VA	SERVES	CCT
1	WAREHOUSE LIGHTS	2310	20/1	2#12,1-#12G	A	3#8-1#10G		50/3	6648	MAU4	2
3	WAREHOUSE LIGHTS	2310	20/1	2#12-1-#12G	В				6648		4
5	OVERHEAD DOOR	200	20/3	4#10-1#12G	С				6648		6
7		200			A						8
9		200			В						10
11					С						12
13					A						14
15					В						16
17					С						18
19					A						20
21					В						22
23					С						24
25					A						26
27					В						28
29				_	С						30
31				-	A						32
33				_	В						34
35				_	С						36
37					A	3-#8, 1#10G		50/3	1000	TRANSFORMER	38
39					В			-	800	TRANSFORMER	40
41					С			-	800	TRANSFORMER	42
OTES:					LOAD SUM	MADV	CONN	NEC	DEM	LOAD BALANCE PER PHASE	
	1 NEMA 1 ENCLOSURE				1-LIGHTING		4620	1.25		5 PHASE A	1015
	2 PROVIDE BOLT ON BREAKERS				2-RECEPTA		4020	NEC		0 PHASE B	995
	2 PROVIDE BOLT ON BREAKERS				3-KITCHEN		0	0.65		0 PHASE C	764
	J				4-HVAC		19944	1		4 LOWEST PHASE PLUS 10%	76-
					5-NON-CON	IT	600	1	60		8412
					LARGEST I		000	0.25		0 REBALANCE LOADS	0412
					L		25164				
					TOTALVA		20164	1	2631	9	

PANE	.: LD 100) MB	120	/ 208 V, 3PH,	4W.+GRND.					NEW PANEL	
ССТ	SERVES	VA	ОСР	WIRE	PHASE	WIRE		OCP	VA	SERVES	ССТ
1	DOCK RECEP	1200	20/1	2-#12,1-#12G	A	2-#12,1-#12G		20/1	200	GFCI	2
3	DOCK RECEP	1200	20/1	2-#12,1-#12G	В	1		20/1		SPARE	4
5	DOCK RECEP	1200	20/1	2-#12,1-#12G	С			20/1		SPARE	6
7	SPARE		20/1		A			20/1		SPARE	8
9	SPARE		20/1		В	-		20/1		SPARE	10
11	SPARE		20/1	-	С	-		20/1		SPARE	12
13	SPACE		20/1	-	A	-		20/1		SPACE	14
15	SPACE		20/1	-	В			20/1		SPACE	16
17	SPACE		20/1	-	С			20/1		SPACE	18
19	SPACE		20/1	-	Α			20/1		SPACE	20
21	SPACE		20/1	-	В	-		20/1		SPACE	22
23	SPACE		20/1	-	С	2		20/1		SPACE	24
25	SPACE		20/1		A			20/1		SPACE	26
27	SPACE		20/1		В			20/1		SPACE	28
29	SPACE		20/1		С	***		20/1		SPACE	30
31	SPACE		20/1		A	-		20/1		SPACE	32
33	SPACE		20/1		В	-		20/1		SPACE	34
35	SPACE		20/1		С			20/1		SPACE	36
37	SPACE		20/1	-	Α	÷		20/1		SPACE	38
39	SPACE		20/1		В			20/1		SPACE	40
41	SPACE		20/1		С			20/1		SPACE	42
NOTES:					LOAD SU	MMARY	CONN	NEC	DEM	LOAD BALANCE PER PHASE	
	NEMA 1 ENCLOSURE				1-LIGHTIN	NG .	0	1.25		0 PHASE A	1400
	PROVIDE BOLT ON BREAKERS				2-RECEPT	ACLES	3800	NEC	380	0 PHASEB	1200
					3-KIT CHE	N	0	0.65		0 PHASE C	1200
					4-HVAC	222	0	1		0 LOWEST PHASE PLUS 10%	
					5-NON-CO	DNT	0	1		0 1200 + 10%	1320
					LARGEST	MOTOR	0	0.25		0 REBALANCE LOADS	
					TOTAL V	A	3800		380	o	
					TOTAL A	MPS	10.5		10.		

Provide electrical for new warehouse

All Electrical work shall be as per NEC 2017.

All work shall be done by qualified electricians.

All branch wiring shall bé copper. Devices shall be 20a commercial grade and color shall be by architect.

SPECIFICATIONS

1. CONDUIT ABOVE GRADE SHALL BE EMT UNLESS OTHERWISE NOTED

2. CONDUIT BELOW GRADE SHALL BE RIGID PVC UNLESS OTHERWISE NOTED 3. CONNECTIONS SHALL BE MADE USING SET SCREW CONNECTORS

4. MC CABLE IS ACCETABLE FOR FINAL CONNECTIONS TO LIGHT FIXTURES PROVIDE WITH 10' WHIP ON ALL HIGHBAYS 5. BRANCH WIRING SHALL BE #12 THHN COPPER UNLESS OTHERWISE NOTED

6. WIRING SHALL BE AS PER CURRENT NEC 2017

7. WIRING DEVICES SHALL BE OF COMMERCIAL GRADE RATED AT 20 AMP 8. INSTALLATION SHALL ADHERE TO ADA STANDARDS

9. ALUMINUM XHHW-#2 CABLE MAY BE USED FOR FEEDERS LARGER THEN #2 OTHERWISE COPPER

10. REFER TO KCP&L STANDARDS MANUAL FOR 480 SERVICES 11. ALL LIGHTING/EQUIPMENT IN WAREHOUSE SHALL BE MOUNTED TO PROVIDE A MIN OF 36' CLEAR HEIGHT HERITAGE ELECTRIC, L.L.C. 841 N. MARTWAY Olathe, Kansas

phone (913) 747 0528 fax (913) 747 0539



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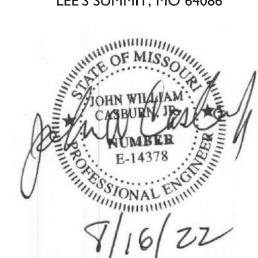
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PROJECT INFORMATION

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LEE'S SUMMIT LOGISTICS BUILDING C LOT 3

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



PERMIT SET	04.26.22
PUMP ROOM MOVE	08.16.22

ISSUE DATES

PANEL SCHEDULE

220019

FIRE PROTECTION PLANS

F. E. Moran, Inc. Fire Protection 3001 Research Rd Champaign, IL 61822 (217) 356-0700 MISSOURI COA: E-2022012018

SCOPE OF WORK

SCOPE OF WORK:

** FURNISH & INSTALL 7 NEW WET PIPE ESFR SPRINKLER SYSTEMS FOR THE NEW

** FURNISH & INSTALL A NEW 1500 GPM FIRE PUMP WITH ACCESSORIES ** POINT OF CONNECTION (START OF CONTRACT) IS AT AN 10" FLANGE, 12" ABOVE THE

FINISHED FLOOR IN THE FIRE PUMP ROOM. ** TRAPEZE HANGERS FOR ALL 8" AND LARGER PIPES HANGING PARALLEL WITH THE

BAR JOIST. ** INSTALL CLASS I. MAN-DOOR ADJACENT, HOSE CONNECTIONS

NOT INCLUDED:

** WIRING OF ELECTRICAL DEVICES ** ELECTRICAL WIRING BETWEEN FIRE PUMP AND CONTROLLER

** FIRE EXTINGUISHERS

** STANDPIPES ** FIRE PUMP CONTROLLER AUTO TRANSFER SWITCH

** ALL UNDERGROUND PIPING AND TESTING

** BACKFLOW PREVENTER (IN PIT BY OTHERS)

** COLUMN SPRINKLERS ** SEISMIC BRACING

** PAINTED PIPING

** CONCRETE PADS ** COMPONENT IDENTIFICATION BEYOND NFPA 13 REQUIREMENTS

** ACCESS PANELS ** CUTTING AND PATCHING

** PIPE SLEEVES & BOLLARDS

CODE INFORMATION

CODE INFORMATION:

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

BUILDING INFO:

IBC OCCUPANCY CLASSIFICATION: S-1 IBC CONSTRUCTION TYPE: II-B

IBC SEISMIC DESIGN CATEGORY: B

HIGHEST FLOOR ELEVATION FROM FIRE DEPARTMENT VEHICLE ACCESS: GRADE NUMBER OF STORIES: 1

BUILDING AREA: 253,278 ft²

GENERAL REQUIREMENTS

** SUPPLY A SPARE SPRINKLER CABINET WITH WRENCH FOR EACH SPRINKLER TYPE AS **REQUIRED BY NFPA 13.** ** IDENTIFY ALL HYDRAULICALLY CALCULATED SYSTEMS WITH A PERMANENTLY MARKED

AND WEATHERPROOF SIGN. ** ALL NEW PIPING OR PIPING MODIFICATIONS WHICH AFFECT MORE THAN 20 SPRINKLERS SHALL BE HYDROSTATICALLY TESTED AT 200 PSI OR 50 PSI OVER THE SYSTEM WORKING PRESSURE. THE SYSTEM SHALL MAINTAIN THIS PRESSURE WITHOUT

LOSS FOR 2 HOURS. ** ** ALL NEW PIPING OR PIPING MODIFICATIONS WHICH AFFECT 20 SPRINKLERS OR LESS, SHALL BE TESTED AT THE SYSTEM WORKING PRESSURE.

** ALL PIPING MODIFICATIONS WHICH CANNOT BE ISOLATED FROM THE EXISTING SYSTEM, SHALL BE TESTED AT THE SYSTEM WORKING PRESSURE. ** THE LOCAL FIRE/BUILDING INSPECTOR IS TO BE NOTIFIED 48 HOURS IN ADVANCE OF

ALL TESTING.

UNDERGROUND TESTING AND FLUSHING: ** ALL UNDERGROUND PIPE SHALL BE TESTED AND FLUSHED BY THE INSTALLING CONTRACTOR AS REQUIRED BY NFPA 24 BEFORE ANY OVERHEAD SPRINKLER PIPING IS

VALVES

** ALL VALVES CONTROLLING WATER FLOW TO SPRINKLERS SHALL BE INDICATING &

** ALL VALVES SHALL BE ACCESSIBLE AT ALL TIMES AND PERMANENTLY IDENTIFIED. ** THE IDENTIFICATION OF CONTROL VALVES SHALL INCLUDE A DESCRIPTION OR

DIAGRAM OF WHAT THEY CONTROL. ** ALL TRAPPED PORTIONS OF SPRINKLER PIPING SHALL BE PROVIDED WITH A LOW

PIPE HANGERS

POINT DRAIN AS REQUIRED BY NFPA 13.

** 1"-8" HANGER RINGS ARE TO BE ADJUSTABLE SWIVEL RINGS, ZINC PLATED, MANUFACTURED TO ANSI/MSS SP-69 STANDARDS. ** HANGER ROD SIZES AND LOCATIONS ARE TO BE AS REQUIRED BY NFPA 13.

DRAWING INDEX

FP 0.0-GENERAL INFORMATION FP 0.1-DETAILS FP 1.0-HYDRAULIC SITE PLAN

FP 2.0-OVERHEAD PIPING PLAN & SECTION VIEW FP 2.1-SYSTEM 1 WEST FP 2.2-SYSTEM 1 EAST

FP 2.4-SYSTEM 2 EAST FP 2.5-SYSTEMS 3-4 WEST FP 2.6-SYSTEMS 3-4 EAST

FP 2.3-SYSTEM 2 WEST

FP 2.7-SYSTEM 5 FP 2.9-SYSTEM 6 WEST

FP 2.10-SYSTEM 6 EAST FP 2.11-SYSTEM 7 WEST FP2.12-SYSTEM 7 EAST FP 3.0-FIRE PUMP DETAILS

WET SYSTEM PIPE & FITTINGS

WET-PIPE SPRINKLER SYSTEM BLACK PIPE:

**11/4 4" & SMALLER PIPING SHALL BE BLACK STEEL SCH. 7 PIPE, MANUFACTURED TO ASTM A795 STANDARDS.

** 6" & GREATER PIPING SHALL BE BLACK STEEL SCH. 10 PIPE, MANUFACTURED TO ASTM

**1" LINE PIPING SHALL BE BLACK STEEL SCH. 40

USE UP TO 175 PSI WORKING PRESSURE.

WET-PIPE SPRINKLER SYSTEM BLACK OUTLETS & FITTINGS:

** 1" BRANCH LINE FITTINGS SHALL BE BLACK DUCTILE IRON THREADED, CLASS 125 STANDARD, MANUFACTURED PER ANSI/ASME B16.4, U.L. LISTED FOR FIRE PROTECTION USE UP TO 175 PSI WORKING PRESSURE. ** 11/4"-3" BRANCH LINE FITTINGS SHALL BE BLACK DUCTILE IRON GROOVED, CLASS 150 STANDARD, MANUFACTURED PER ANSI/ASME B16.3, U.L. LISTED FOR FIRE PROTECTION

** 11/4" - 3" BRANCH LINE PIPE OUTLETS TO BE WELDED MANUFACTURED TO ASTM A53 & ANSI B1.20.1 STANDARDS.

** 4"-8" MAIN PIPE BRANCH OUTLETS TO BE WELDED MANUFACTURED TO ASTM A53 & ANSI B1.20.1 STANDARDS. ** 4"-8" MAIN PIPE BRANCH OUTLETS TO BE DUCTILE IRON MECHANICAL MANUFACTURED

DESIGN CRITERIA - ESFR (16.8 k)

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

FROM NFPA 13, 2016 EDITION TABLE 16.3.3.1 & TABLE 17.3.3.1 COMMODITY CLASSIFICATION: CLASS I, II, III OR IV, ENCAPSULATED OR

UNENCAPSULATED, NO OPEN TOP CONTAINERS STORAGE ARRANGEMENT: PALLETIZED/SOLID-PILE/SINGLE, DOUBLE & MULTIPLE ROW RACKS WITH NO SOLID SHELVING CONSTRUCTION TYPE: ALL TYPES

MAXIMUM STORAGE HEIGHT: 35 FEET MAXIMUM CEILING/ROOF HEIGHT: 40 FEET

MINIMUM CLEARANCE FROM SPRINKLER DEFLECTOR TO TOP OF STORAGE: 36 INCHES SPRINKLER TYPE: ESFR (EARLY SUPPRESSION FAST-RESPONSE) SPRINKLER K-FACTOR: 16.8

SPRINKLER TEMPERATURE RATING: 205°F SPRINKLER ORIENTATION: PENDENT

MAXIMUM SPRINKLER DEFLECTOR DISTANCE BELOW CEILING: 14 INCHES MINIMUM SPRINKLER DEFLECTOR DISTANCE BELOW CEILING: 6 INCHES MAXIMUM SPRINKLER SPACING/AREA: 10 FEET/100 ft²

MINIMUM SPRINKLER SPACING: 8 FEET/64 ft² TYPE OF SYSTEM: WET NUMBER OF DESIGN SPRINKLERS: 12 MINIMUM SPRINKLER OPERATING PRESSURE: 52 PSI INSIDE HOSE STREAM ALLOWANCE: 0 GPM

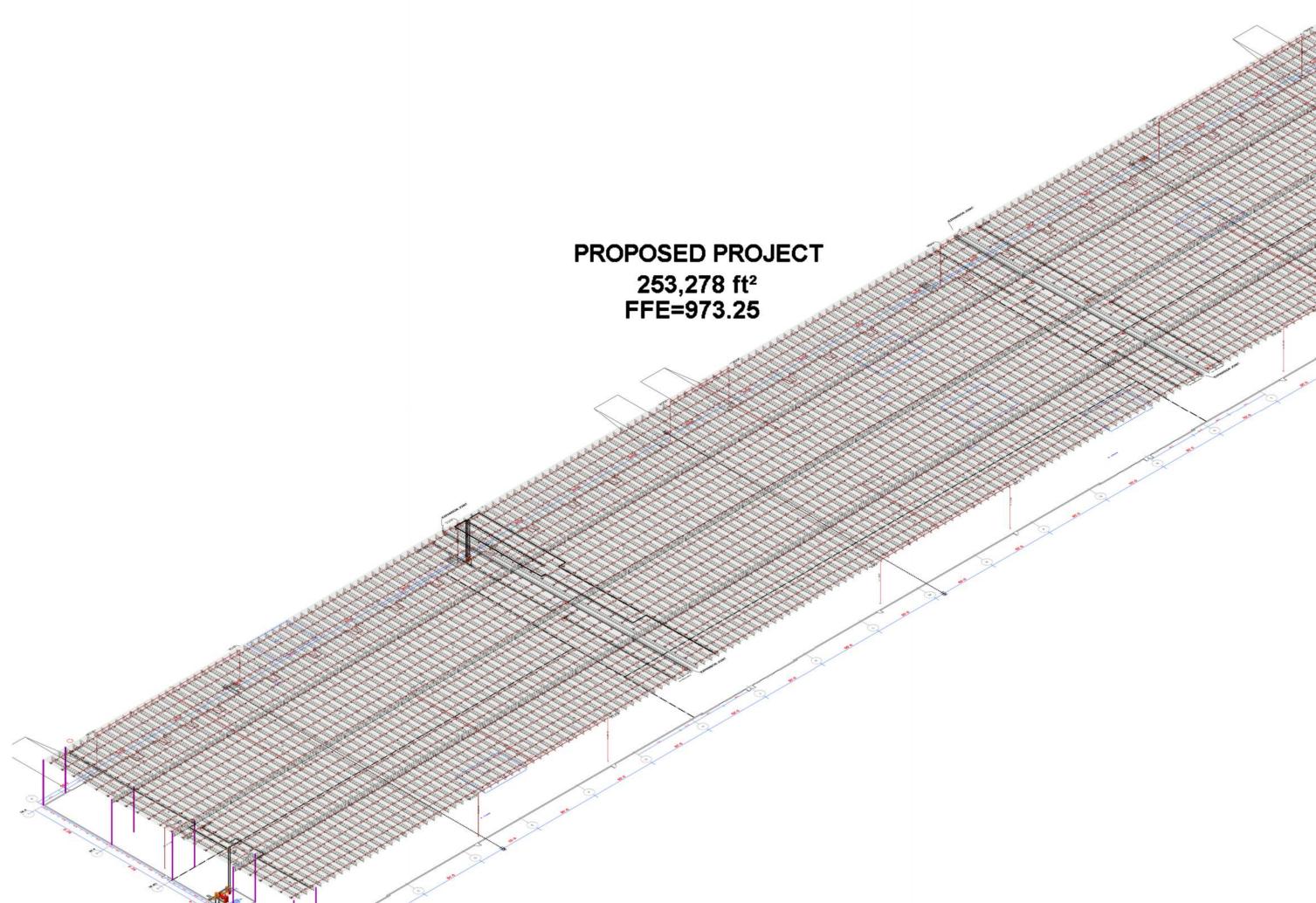
OUTSIDE HOSE STREAM ALLOWANCE: 250 GPM TOTAL HOSE STREAM ALLOWANCE: 250 GPM

IN-RACK SPRINKLERS: NO SYSTEMS SHALL BE WET ONLY.

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

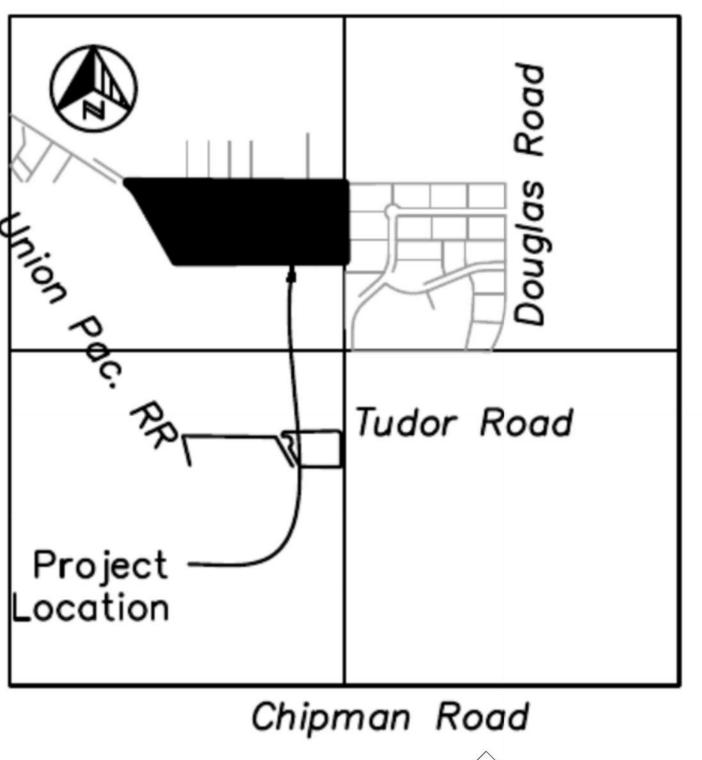
WHERE ROOF OR CEILING HEIGHTS ARE 30' OR LESS, ESFR SPRINKLERS MAY BE SPACED

TOTAL SYSTEM SIZE SHALL NOT EXCEED 40,000 ft2 COMBINED HIGH PILED/RACK STORAGE & LIGHT/ORDINARY HAZARD SYSTEMS MAY COVER UP TO









SITE MAP





CERTIFICATION

NUMBER

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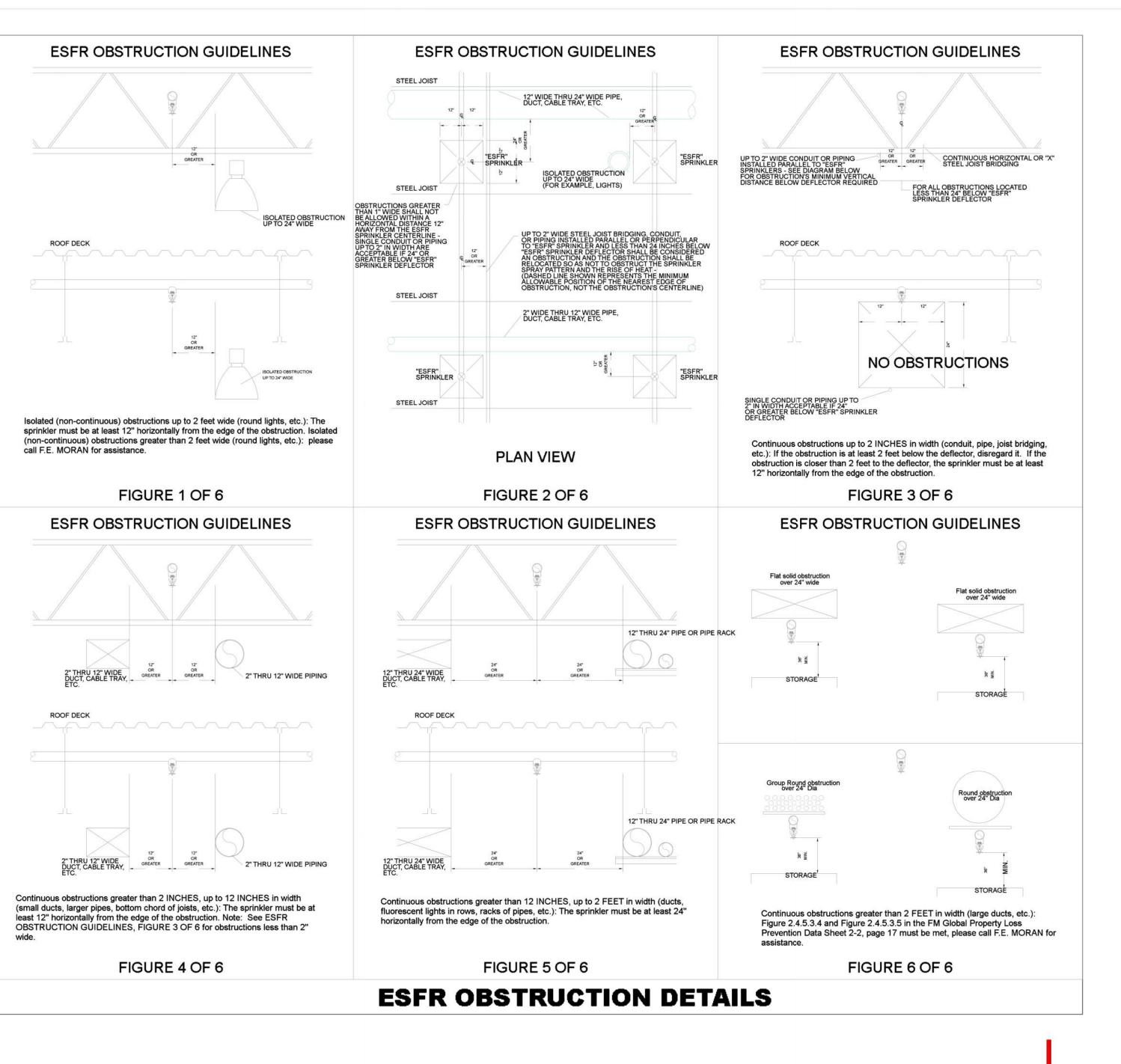
PROJECT INFORMATION LEE'S SUMMIT LOGISTICS **BUILDING C LOT 2** NW CORNER OF

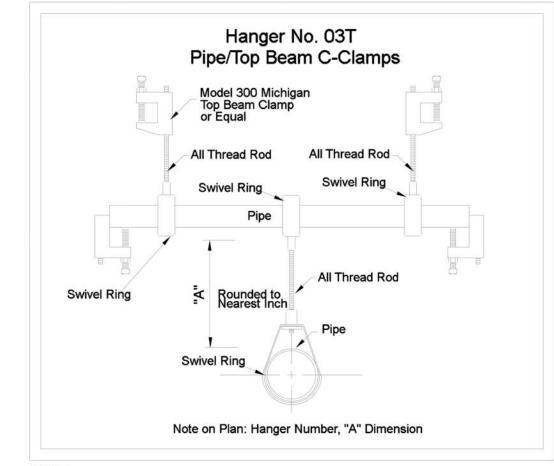
> **NE TUDOR RD & MAIN ST** LEE'S SUMMIT, MO 64086

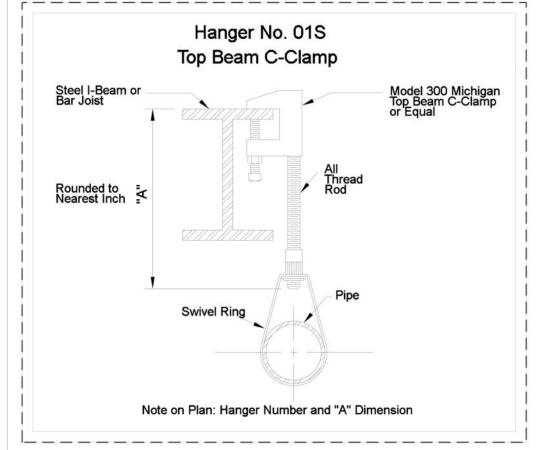
ISSUE DATES

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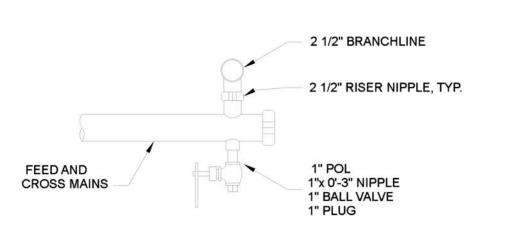
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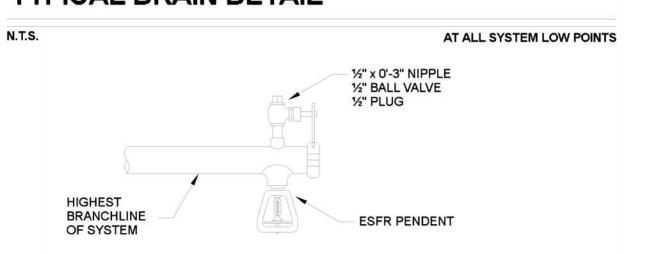




*TRAPEZE MEMBER SECTION MODULUS TO MEET OR EXCEED NFPA 13 REQUIREMENTS
*ALL THREAD ROD SUPPORTING TRAPEZE MEMBERS TO BE EQUAL IN SIZE TO THE
ALL THREAD ROD SUPPORTHING THE SPRINKLER PIPE



TYPICAL DRAIN DETAIL



MANUAL AIR VENT DETAIL

AT ALL SYSTEM HIGH POINTS - NFPA 13, 2016 AND LATER EDITIONS

			Р	IPE SI	ZE TA	BLE				
NOMINAL	S	CHEDUL	E 40		SCHEDUL	E 10	EDDYFLOW			
PIPE SIZE	O.D.	I.D.	WALL THICKNESS	O.D.	I.D.	WALL THICKNESS	O.D.	I.D.	WALL	
1	1.315	1.049	.133	1.315	1.097	.109	1.315	1.191	.062	
11/4	1.660	1.380	.140	1.660	1.442	.109	1.660	1.536	.062	
11/2	1.900	1.610	.145	1.900	1.682	.109	1.900	1.728	.086	
2	2.375	2.067	.154	2.375	2.157	.109	2.375	2.203	.086	
21/2	2.875	2.469	.203	2.875	2.635	.120	2.875	2.703	.086	
3	3.500	3.068	.216	3.500	3.260	.120	3.500	3.314	.093	
4	4.500	4.026	.237	4.500	4.260	.120	4.500	4.310	.095	
5	5.563	5.047	.258	5.563	5.295	.134				
6	6.625	6.065	.280	6.625	6.357	.134				
8	8.625	7.981	.322	8.625	8.249	.188			1	
10	10.750	10.020	.365	10.750	10.370	.188				

H	ANGER	INST	ALLATI	ON RE	QUIRE	MENTS	i	
	МА	XIMUM E	DISTANCE E	BETWEEN I	HANGER	s		4" - 8"
OMINAL PIPE SIZE	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	N/A

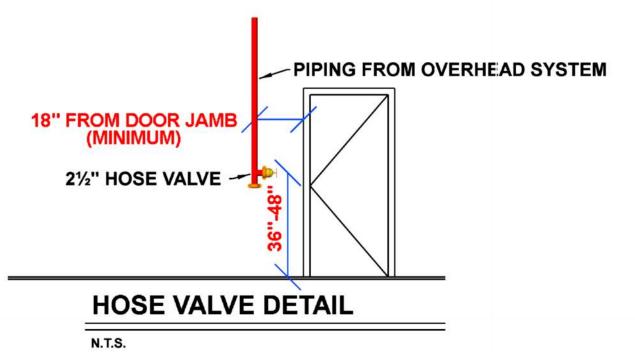
N/A 12' 0" 12' 0" 15' 0" 15' 0" 15' 0" 15' 0" 15' 0"

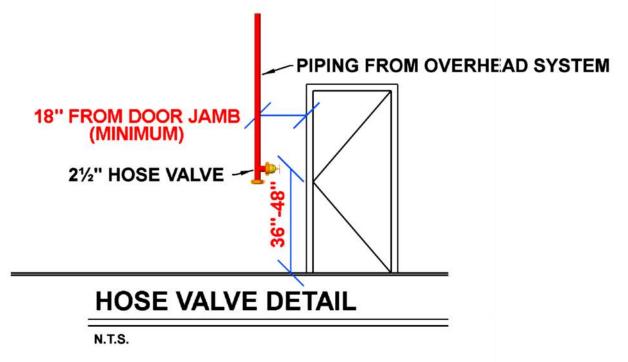
THE UNSUPPORTED LENGTH BETWEEN THE END SPRINKLER AND THE LAST HANGER ON THE LINE SHALL NOT EXCEED 36" FOR 1" PIPE, 48" FOR 1 1/4" PIPE AND 60" FOR 1 1/2" PIPE OR LARGER

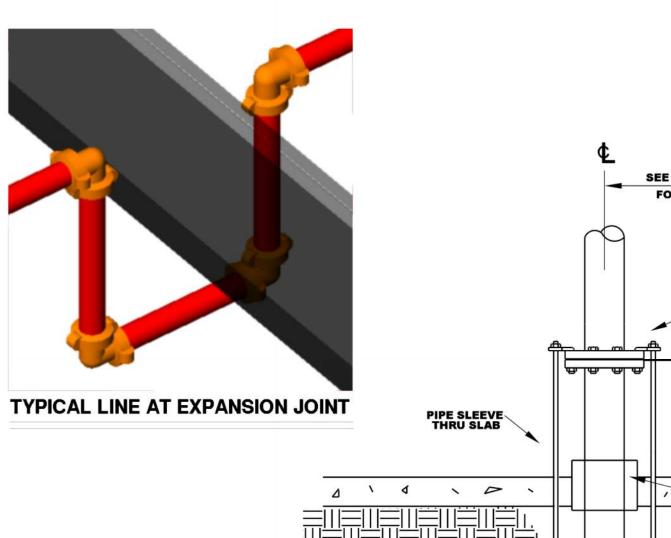
100 PSI STATIC PRESSURE ON SYSTEM REQUIRES UP-LIFT RESTRAINT WITHIN 12 INCHES HORIZONTALLY OF HEAD FOR ARM-OVERS AND END OF BRANCH LINE

SPRINKLER DROP, OR SPRIG-UP SHALL NOT EXCEED 24"

THE CUMULATIVE HORIZONTAL LENGTH OF AN UNSUPPORTED ARMOVER TO A SPRINKLER

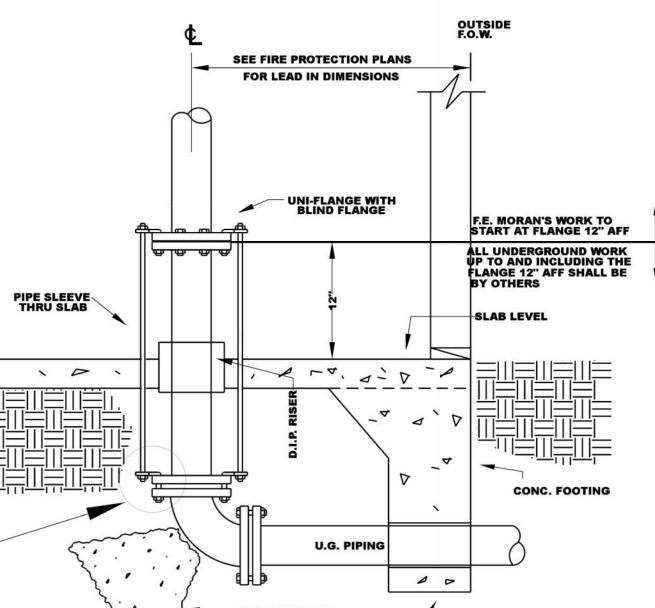




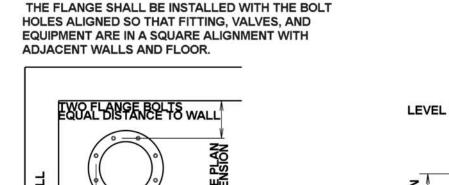


RESTRAINTS TO BE SIZED BY SITE CONTRACTOR

"J" BOLT OR-TIE BOLT



TO BE SIZED BY SITE CONTRACTOR (PER NFPA 24)

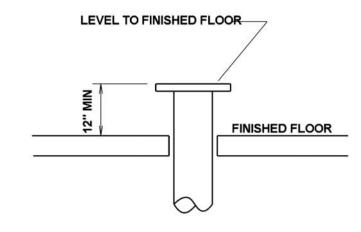


NOTE: ALL FIRE PROTECTION PIPING STUB-UPS WHETHER INSIDE OR OUTSIDE A BUILDING

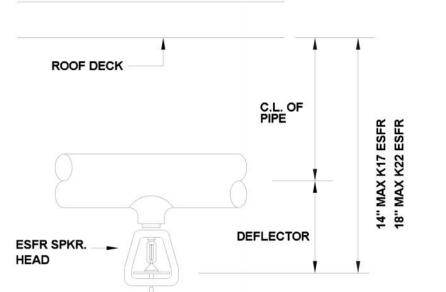
SEE PLAN FOR DIMENSION

(INCLUDING PUMP ROOMS), SHALL BE INSTALLED

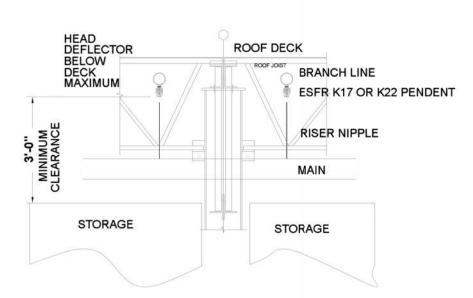
UTILIZING THE "2-HOLE METHOD" ON ALL FLANGES.



INCOMING FIRE PROTECTION SUPPLY DETAIL NOT TO SCALE



ESFR PENDENT DETAIL N.T.S.



STORAGE CLEARANCE

N.T.S.

TYPICAL UNDERGROUND LEAD-IN

F.E. MORAN 3001 RESEARCH Rd CHAMPAIGN, IL 61822 (217) 356-0700 MISSOURI COA:

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LOPEZ NUMBER PE-2022007904

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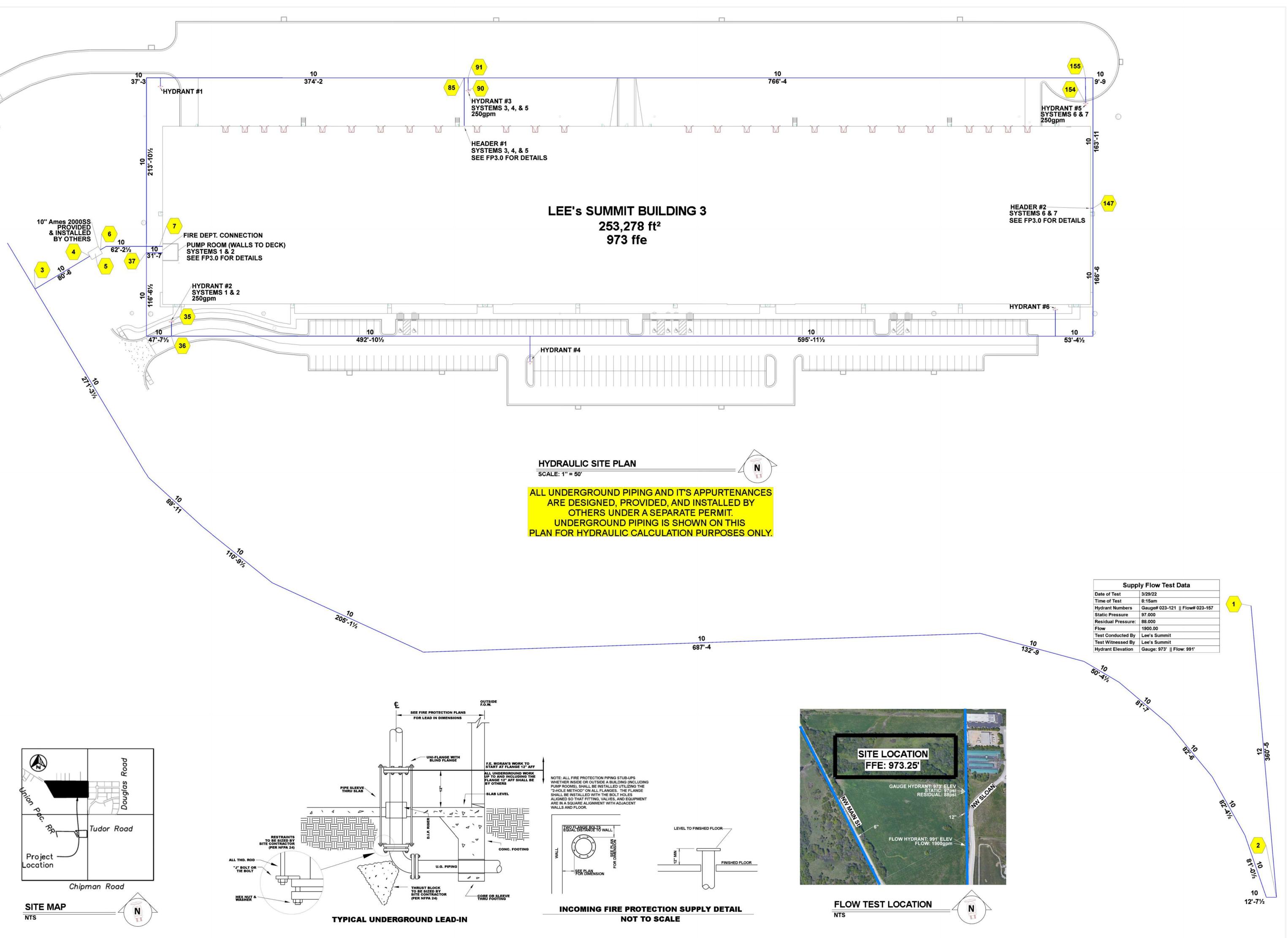
PROJECT INFORMATION LEE'S SUMMIT LOGISTICS BUILDING C LOT 2

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

210300

ISSUE DATES

FP 0.1



16815 College Blvd Lenexa, KS 66219 (217) 356-0700 MISSOURI COA:

E-2022012018



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LEE'S SUMMIT LOGISTICS

BUILDING C LOT 2

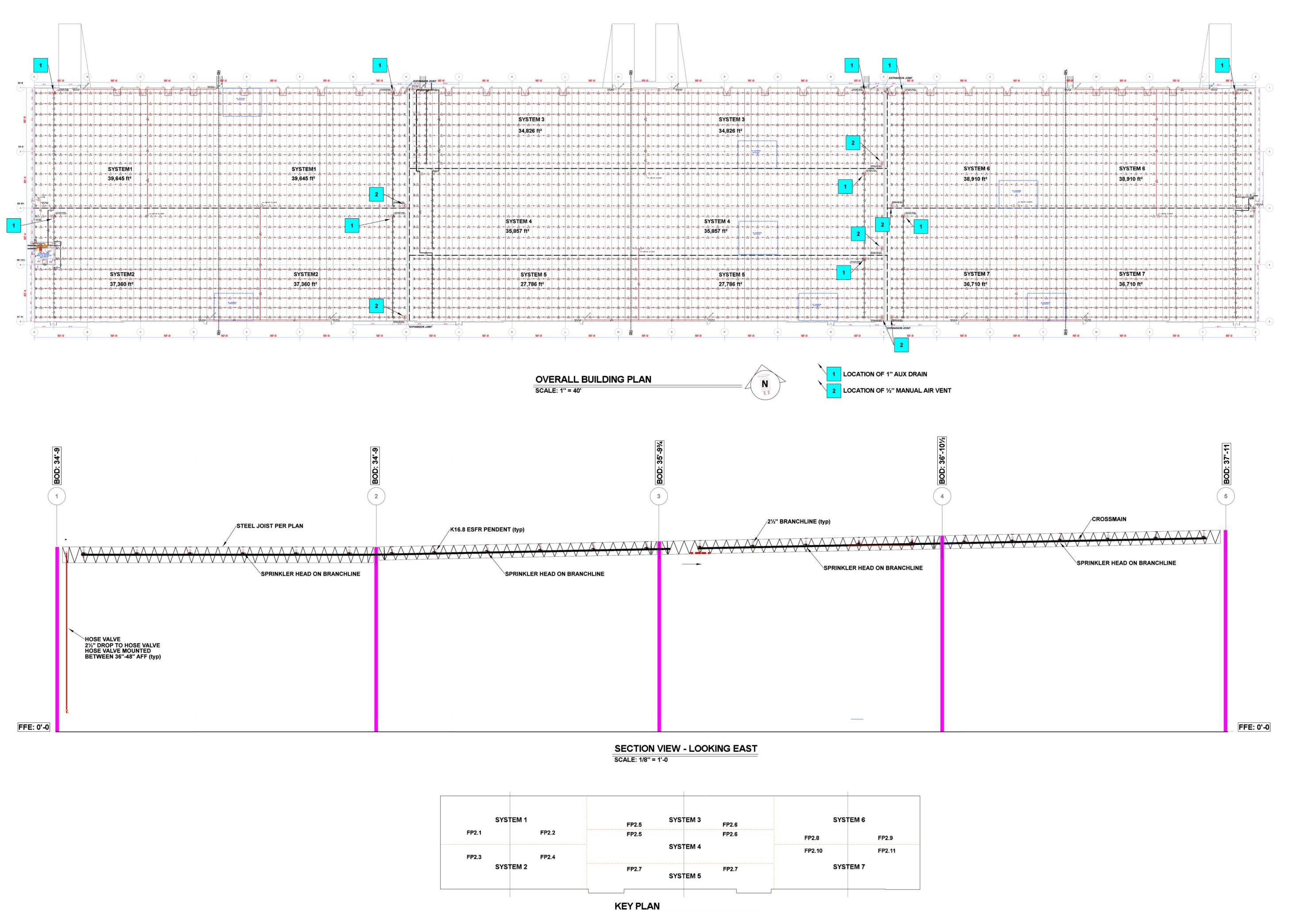
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NW CORNER OF NE TUDOR RD & MAIN ST LEE'S SUMMIT, MO 64086

ISSUE DATES
ERMIT SET 8-11-22

210300

FP 1.0



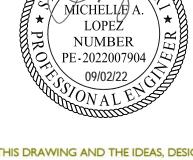
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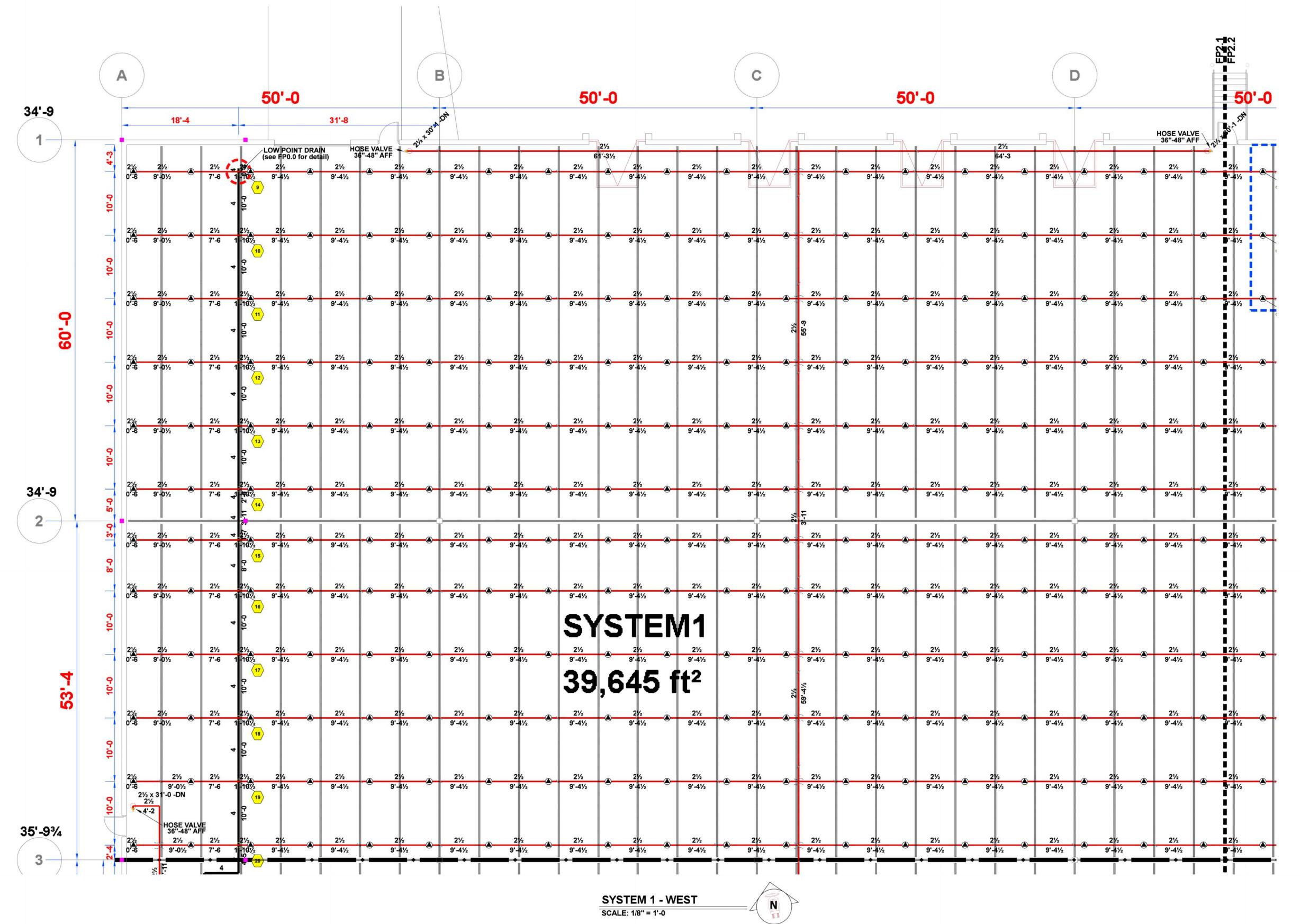
PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING C LOT 2 NW CORNER OF

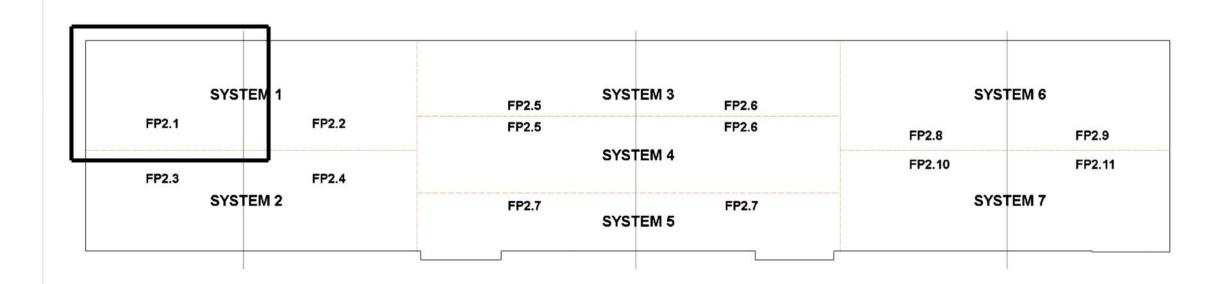
> NE TUDOR RD & MAIN ST LEE'S SUMMIT, MO 64086

ISSUE DATES
PERMIT SET 8-11-22

210300



PIPING CENTERLINES
BRANCHLINES ARE TO BE HUNG 0'-8" BELOW TOS
6" MAINS ARE TO BE HUNG 1'-7" BELOW TOS
4" MAINS ARE TO BE HUNG 1'-6" BELOW TOS



	Sprinkler Legend										
Symbol	Manufacturer	SIN	Model	Quantity	K-Factor	Туре	Size	Response	Finish	Temperature	Note
	Viking	VK503	ESFR	2825	16.80	Pendent	3/4	Quick	Brass	205°F	
0	Viking	VK3501	Microfast	4	8.00	Upright	3/4	Quick	Brass	200°F	BRASS
				Total = 2829		1	100				

F.E. MORAN



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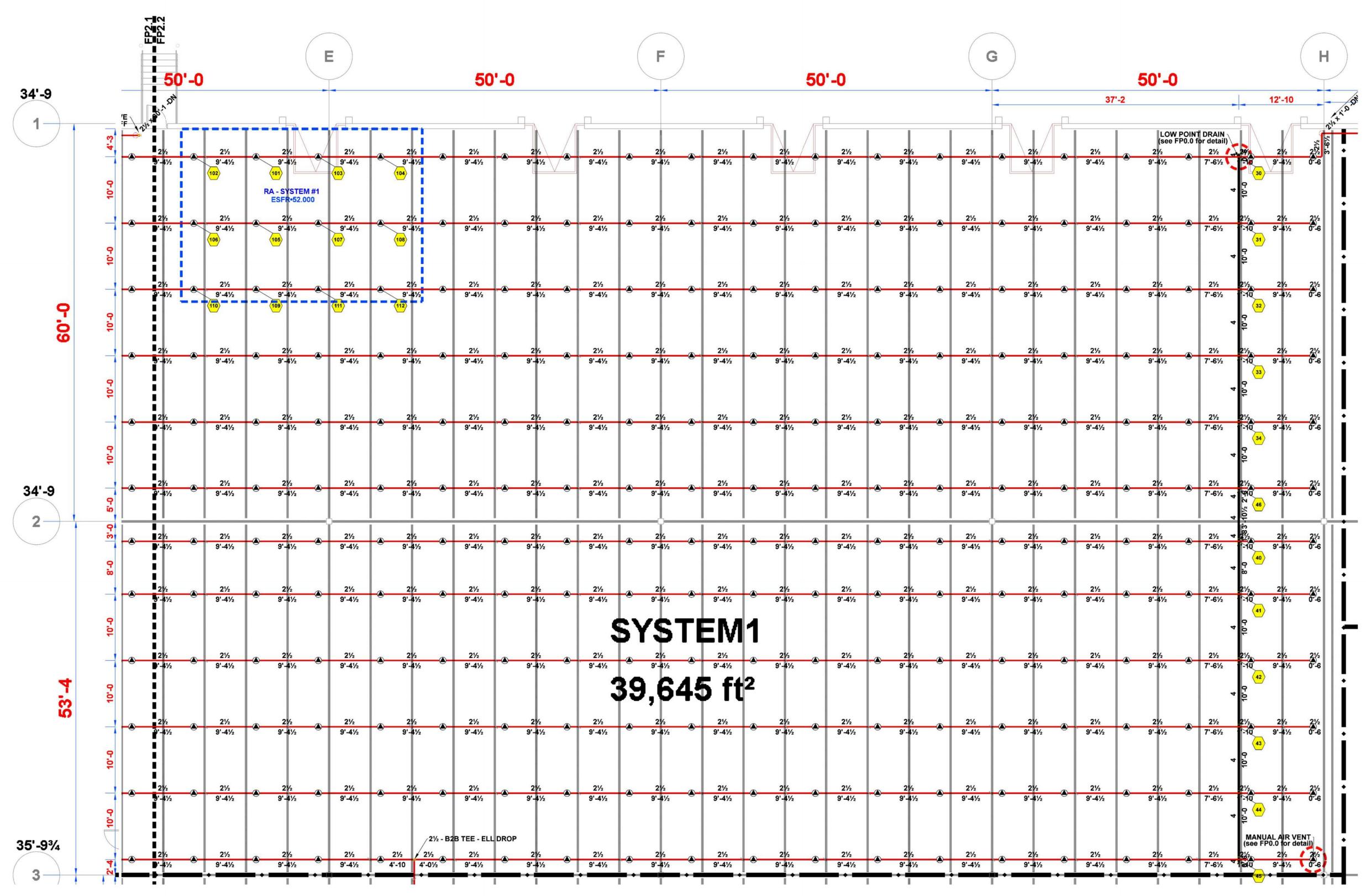
LEE'S SUMMIT LOGISTICS BUILDING C LOT 2

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

ISSUE D	ATES
PERMIT SET	8-11-22

FP 2.1

210300



SYSTEM 1 - EAST

SCALE: 1/8" = 1'-0

PIPING CENTERLINES
BRANCHLINES ARE TO BE HUNG 0'-8" BELOW TOS
6" MAINS ARE TO BE HUNG 1'-7" BELOW TOS
4" MAINS ARE TO BE HUNG 1'-6" BELOW TOS

SYSTEM 1	FP2.5	SYSTEM 3	22.6	SYSTEM 6
FP2.1 FP2.2	FP2.5		P2.6 FP2.8	FP2.9
FP2.3 FP2.4		SYSTEM 4	FP2.10	FP2.11
SYSTEM 2	FP2.7	SYSTEM 5	22.7	SYSTEM 7

Hydraulic Inform	ation
Remote Area #1 - Sys	tem 1
OCCUPANCY CLASSIFICATION	ESFR
MIN. END HEAD PRESSURE	52.000 (ESFR)
TOTAL HOSE STREAMS	250.00
TOTAL HEADS FLOWING	12
K-FACTOR	16.80
TOTAL WATER REQUIRED	1708.60
TOTAL PRESSURE REQUIRED	81.528
BASE of RISER (gpm)	1708.60
BASE of RISER (psi)	59.628
SAFETY MARGIN (psi)	+8.077 (9.0%)

	Sprinkler Legend											
Symbol	Manufacturer	SIN	Model	Quantity	K-Factor	Туре	Size	Response	Finish	Temperature	Note	
	Viking	VK503	ESFR	2825	16.80	Pendent	3/4	Quick	Brass	205°F		
0	Viking	VK3501	Microfast	4	8.00	Upright	3/4	Quick	Brass	200°F	BRASS	
				Total = 2829								

F.E. MORAN

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PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS

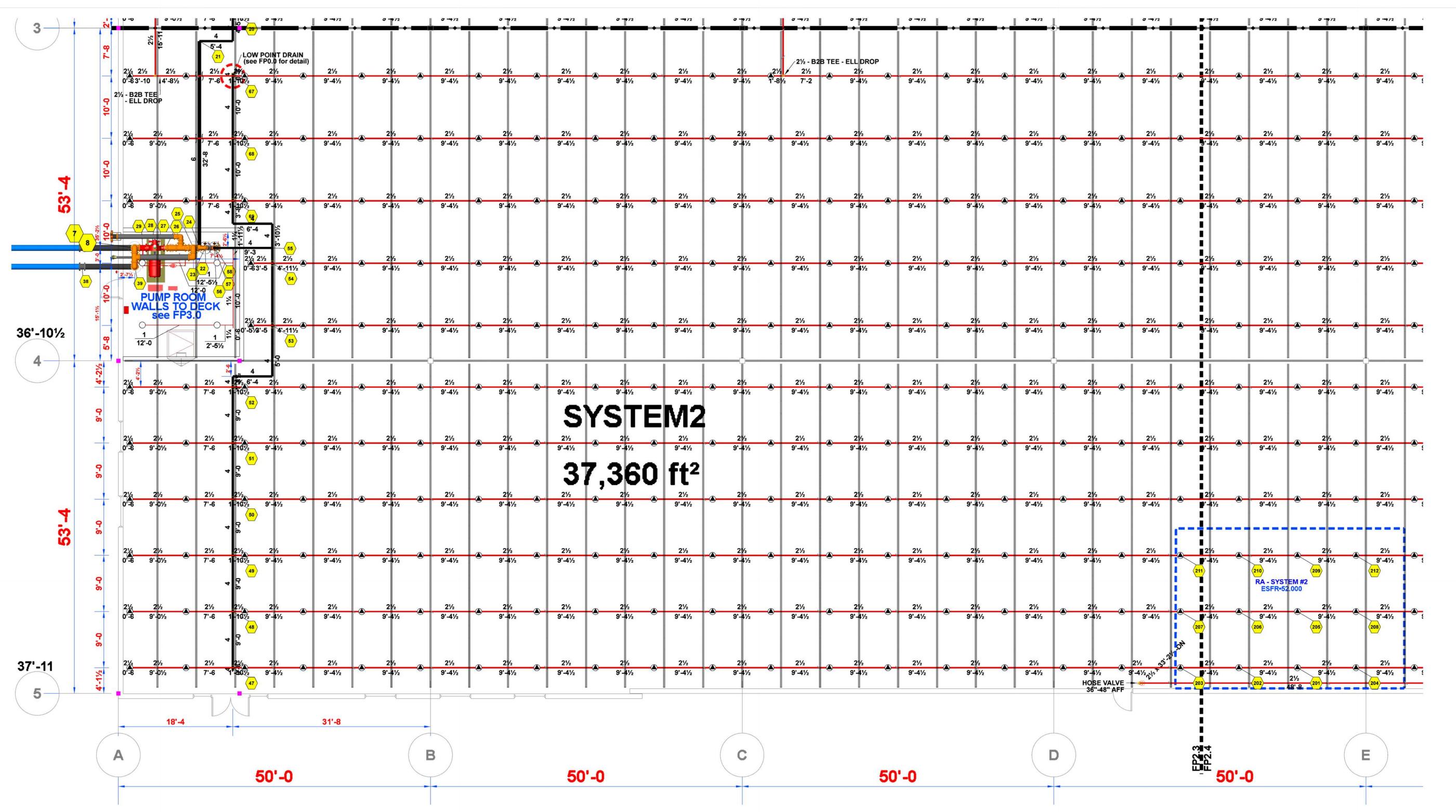
BUILDING C LOT 2

NW CORNER OF
NE TUDOR RD & MAIN ST

LEE'S SUMMIT, MO 64086

ISSUE DATES
PERMIT SET 8-11-22

210300



SYSTEM 2 - WEST

SCALE: 1/8" = 1'-0

PIPING CENTERLINES
BRANCHLINES ARE TO BE HUNG 0'-8" BELOW TOS
6" MAINS ARE TO BE HUNG 1'-7" BELOW TOS
4" MAINS ARE TO BE HUNG 1'-6" BELOW TOS

SYST	EM 1	FP2.5	SYST	гем з	FP2.6	SYSTE	EM 6
FP2.1	FP2.2	FP2.5			FP2.6	FP2.8	FP2.5
FP2.3	FP2.4	S		SYSTEM 4		FP2.10	FP2.11
SYST	EM 2	FP2.7		ГЕМ 5	FP2.7	SYSTE	EM 7

Hydraulic Inforn	nation
Remote Area #2 - Sy	stem 2
OCCUPANCY CLASSIFICATION	ESFR
MIN. END HEAD PRESSURE	52.000 (ESFR)
TOTAL HOSE STREAMS	250.00
TOTAL HEADS FLOWING	12
K-FACTOR	16.80
TOTAL WATER REQUIRED	1709.09
TOTAL PRESSURE REQUIRED	76.031
BASE of RISER (gpm)	1709.09
BASE of RISER (psi)	54.122
SAFETY MARGIN (psi)	+13.570 (15.1%)

				Spr	inkler Le	gend					
Symbol	Manufacturer	SIN	Model	Quantity	K-Factor	Туре	Size	Response	Finish	Temperature	Note
	Viking	VK503	ESFR	2825	16.80	Pendent	3/4	Quick	Brass	205°F	
0	Viking	VK3501	Microfast	4	8.00	Upright	3/4	Quick	Brass	200°F	BRASS
				Total = 2829							

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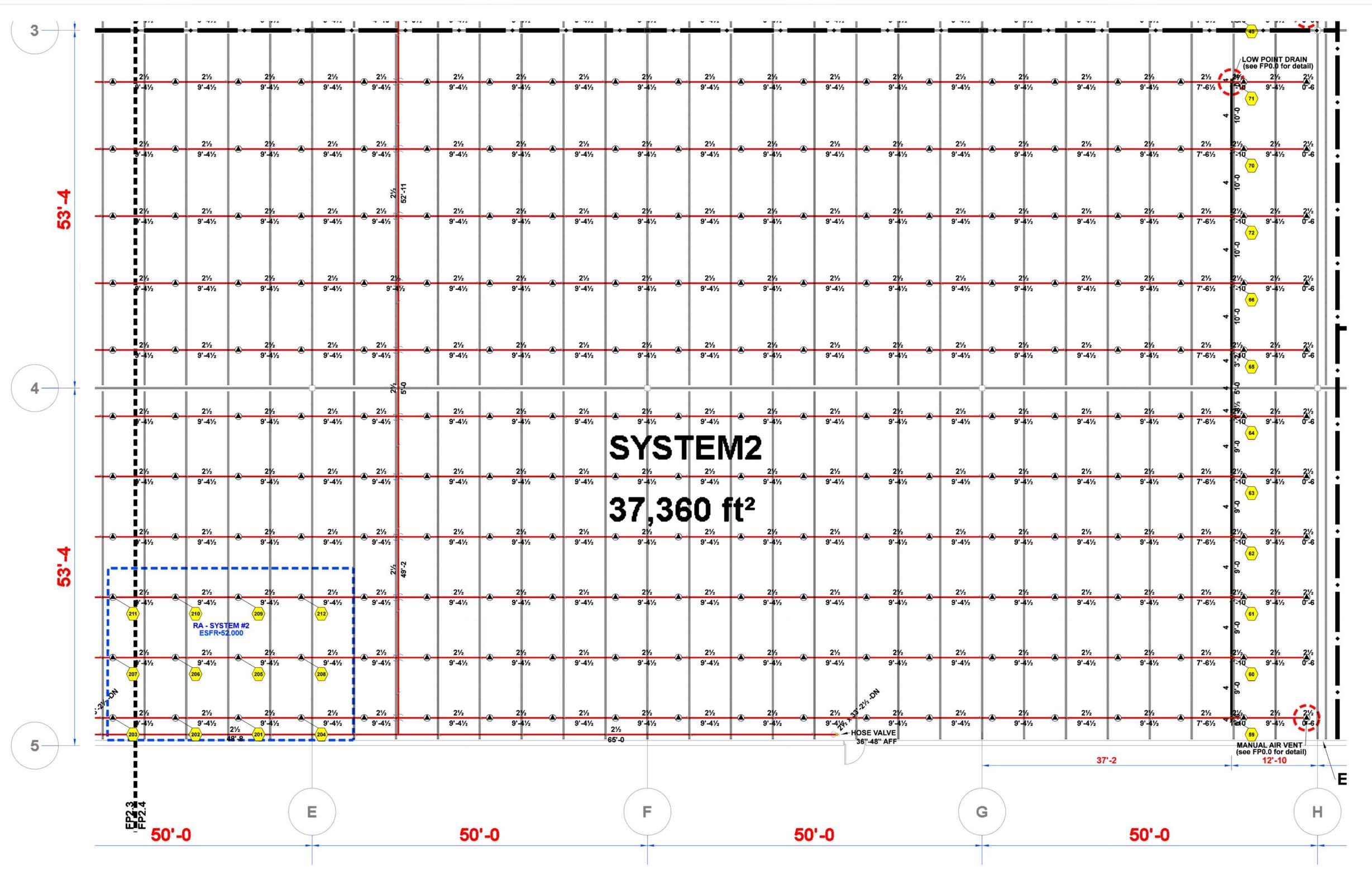
LEE'S SUMMIT LOGISTICS
BUILDING C LOT 2

NW CORNER OF

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

ISSUE DATES
PERMIT SET 8-11-22

210300



SYSTEM 2 - EAST

SCALE: 1/8" = 1'-0

PIPING CENTERLINES
BRANCHLINES ARE TO BE HUNG 0'-8" BELOW TOS
6" MAINS ARE TO BE HUNG 1'-7" BELOW TOS
4" MAINS ARE TO BE HUNG 1'-6" BELOW TOS

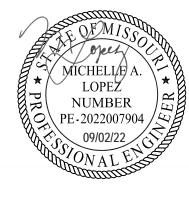
Hydraulic Inforn	nation
Remote Area #2 - Sy	stem 2
OCCUPANCY CLASSIFICATION	ESFR
MIN. END HEAD PRESSURE	52.000 (ESFR)
TOTAL HOSE STREAMS	250.00
TOTAL HEADS FLOWING	12
K-FACTOR	16.80
TOTAL WATER REQUIRED	1709.09
TOTAL PRESSURE REQUIRED	76.031
BASE of RISER (gpm)	1709.09
BASE of RISER (psi)	54.122
SAFETY MARGIN (psi)	+13.570 (15.1%)

	Sprinkler Legend											
Symbol	Manufacturer	SIN	Model	Quantity	K-Factor	Туре	Size	Response	Finish	Temperature	Note	
	Viking	VK503	ESFR	2825	16.80	Pendent	3/4	Quick	Brass	205°F		
0	Viking	VK3501	Microfast	4	8.00	Upright	3/4	Quick	Brass	200°F	BRASS	
				Total = 2829								





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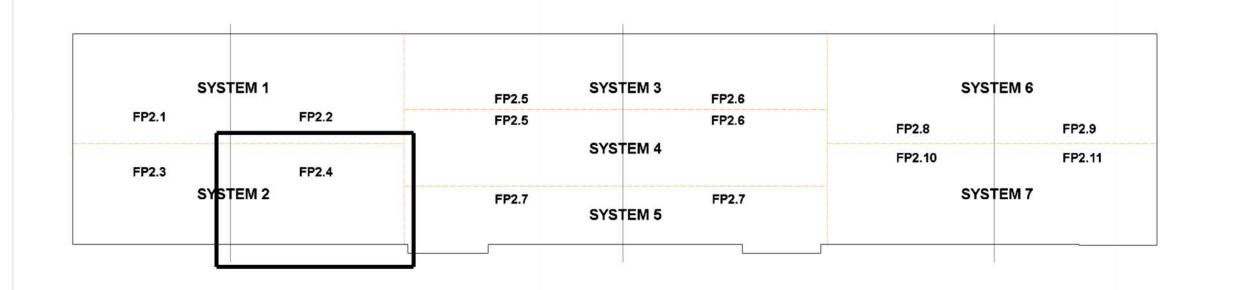
BUILDING C LOT 2

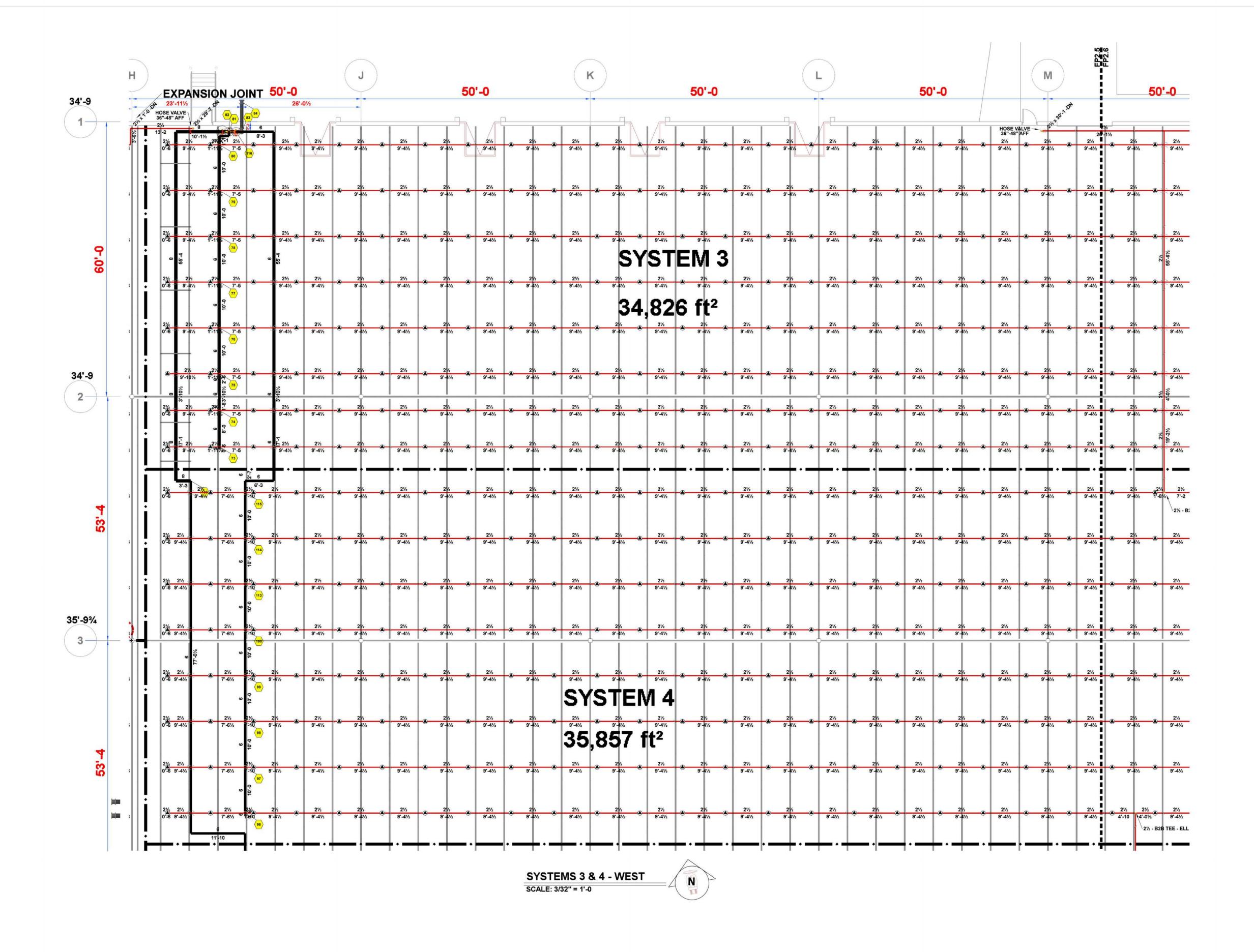
NW CORNER OF NE TUDOR RD & MAIN ST LEE'S SUMMIT, MO 64086

ISSUE D	ATES
PERMIT SET	8-11-22

FP 2.4

210300





SYSTEM 1 SYSTEM 6 FP2.6 FP2.5 FP2.2 FP2.5 FP2.6 FP2.8 FP2.9 SYSTEM 4 FP2.10 FP2.11 FP2.3 FP2.4 SYSTEM 2 SYSTEM 7 FP2.7 SYSTEM 5

PIPING CENTERLINES
BRANCHLINES ARE TO BE HUNG 0'-8" BELOW TOS
6" MAINS ARE TO BE HUNG 1'-7" BELOW TOS
4" MAINS ARE TO BE HUNG 1'-6" BELOW TOS

	Sprinkler Legend											
Symbol	Manufacturer	SIN	Model	Quantity	K-Factor	Туре	Size	Response	Finish	Temperature	Note	
	Viking	VK503	ESFR	2825	16.80	Pendent	3/4	Quick	Brass	205°F		
Ŏ	Viking	VK3501	Microfast	4	8.00	Upright	3/4	Quick	Brass	200°F	BRASS	
			9	Total = 2829								

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MICHELLE A. LOPEZ NUMBER PE-2022007904 09/02/22
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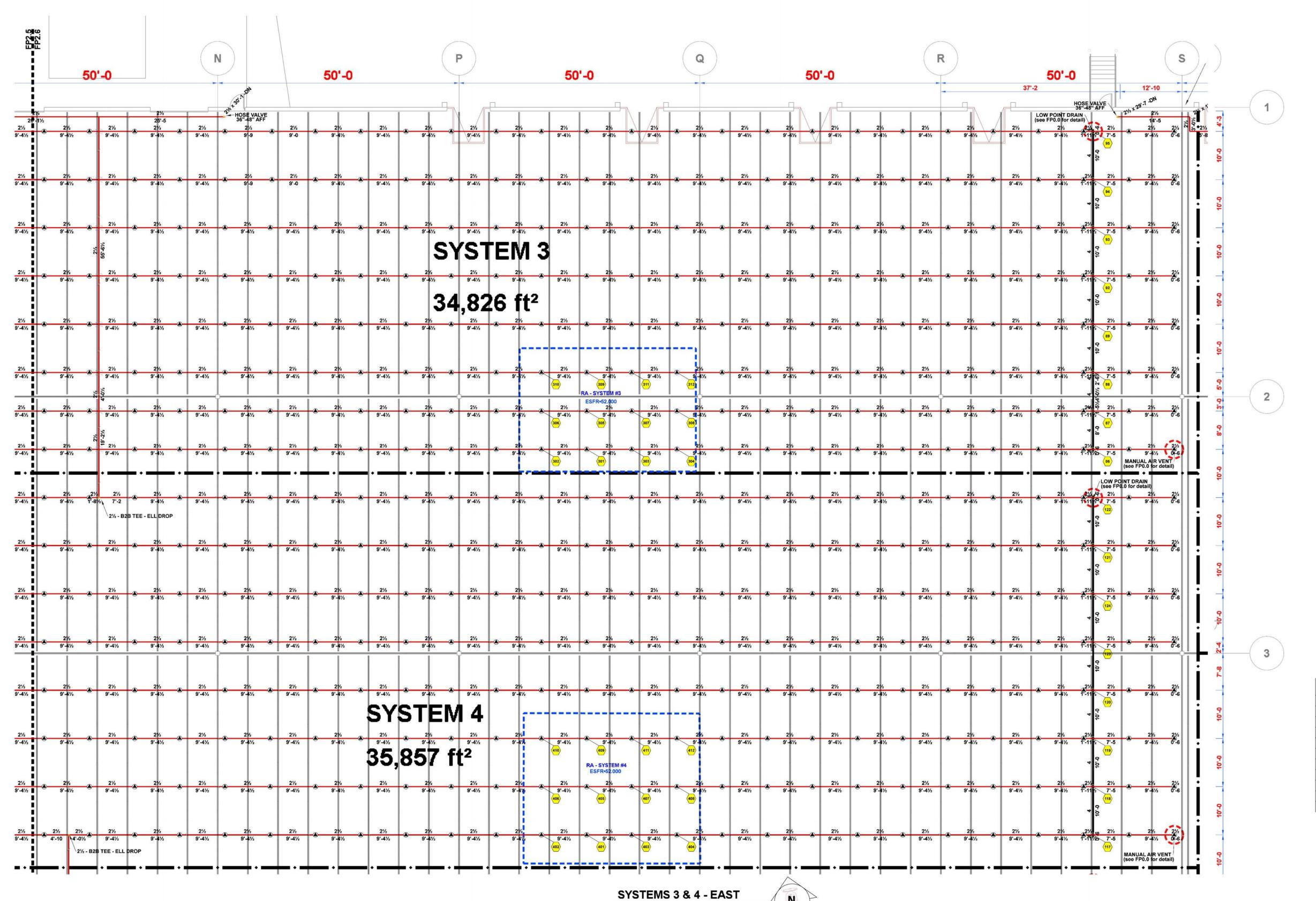
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PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS

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

ISSUE D	ATES
PERMIT SET	8-11-22



Hydraulic Inforn	nation
Remote Area #3 - Sy	stem 3
OCCUPANCY CLASSIFICATION	ESFR
MIN. END HEAD PRESSURE	52.000 (ESFR)
TOTAL HOSE STREAMS	250.00
TOTAL HEADS FLOWING	12
K-FACTOR	16.80
TOTAL WATER REQUIRED	1708.18
TOTAL PRESSURE REQUIRED	76.173
BASE of RISER (gpm)	1708.18
BASE of RISER (psi)	54.281
SAFETY MARGIN (psi)	+13.435 (15.0%)

Remote Area #4 - System 4									
OCCUPANCY CLASSIFICATION	ESFR								
MIN. END HEAD PRESSURE	52.000 (ESFR)								
TOTAL HOSE STREAMS	250.00								
TOTAL HEADS FLOWING	12								
K-FACTOR	16.80								
TOTAL WATER REQUIRED	1709.88								
TOTAL PRESSURE REQUIRED	78.816								
BASE of RISER (gpm)	1709.88								
BASE of RISER (psi)	56.893								
SAFETY MARGIN (psi)	+10.779 (12.0%)								

PIPING CENTERLINES
BRANCHLINES ARE TO BE HUNG 0'-8" BELOW TOS
6" MAINS ARE TO BE HUNG 1'-7" BELOW TOS
4" MAINS ARE TO BE HUNG 1'-6" BELOW TOS

SCALE: 3/32" = 1'-0

			f			
SYSTEM	Л 1	FP2.5	SYS	TEM 3 FP2.6	SYST	ГЕМ 6
FP2.1	FP2.2	FP2.5		FP2.6	FP2.8	FP2.9
FP2.3 F SYSTEM 2	FP2.4		SYS	EM 4	FP2.10	FP2.11
	12	FP2.7	SYST	FP2.7 EM 5	SYST	TEM 7
		FP2.7	SYST		SYST	E

	Sprinkler Legend										
Symbol	Manufacturer	SIN	Model	Quantity	K-Factor	Туре	Size	Response	Finish	Temperature	Note
	Viking	VK503	ESFR	2825	16.80	Pendent	3/4	Quick	Brass	205°F	
0	Viking	VK3501	Microfast	4	8.00	Upright	3/4	Quick	Brass	200°F	BRASS
				Total = 2829							

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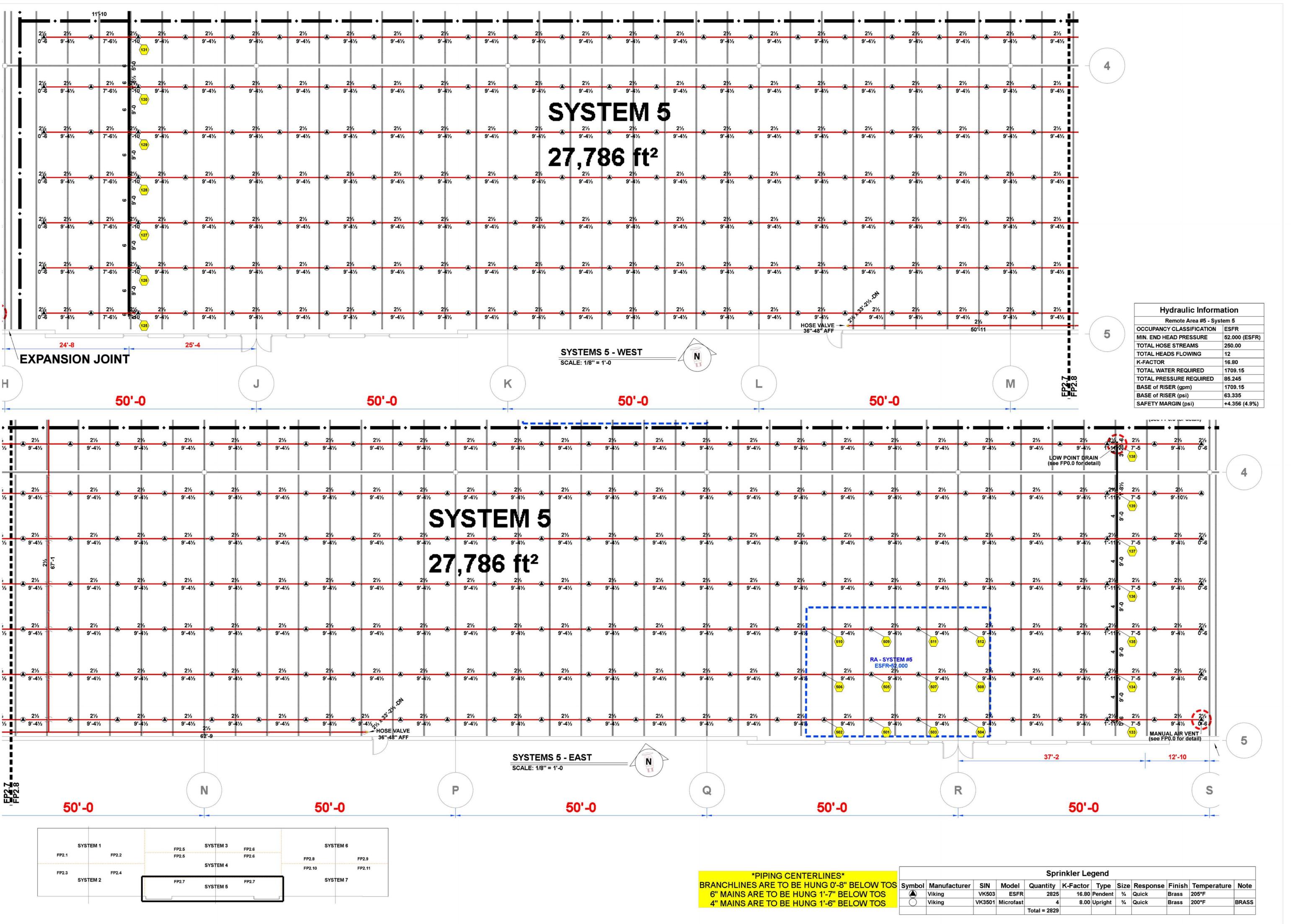
PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS

BUILDING C LOT 2

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

ISSUE D	ATES
PERMIT SET	8-11-22
21030	10







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NUMBER
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09/02/22

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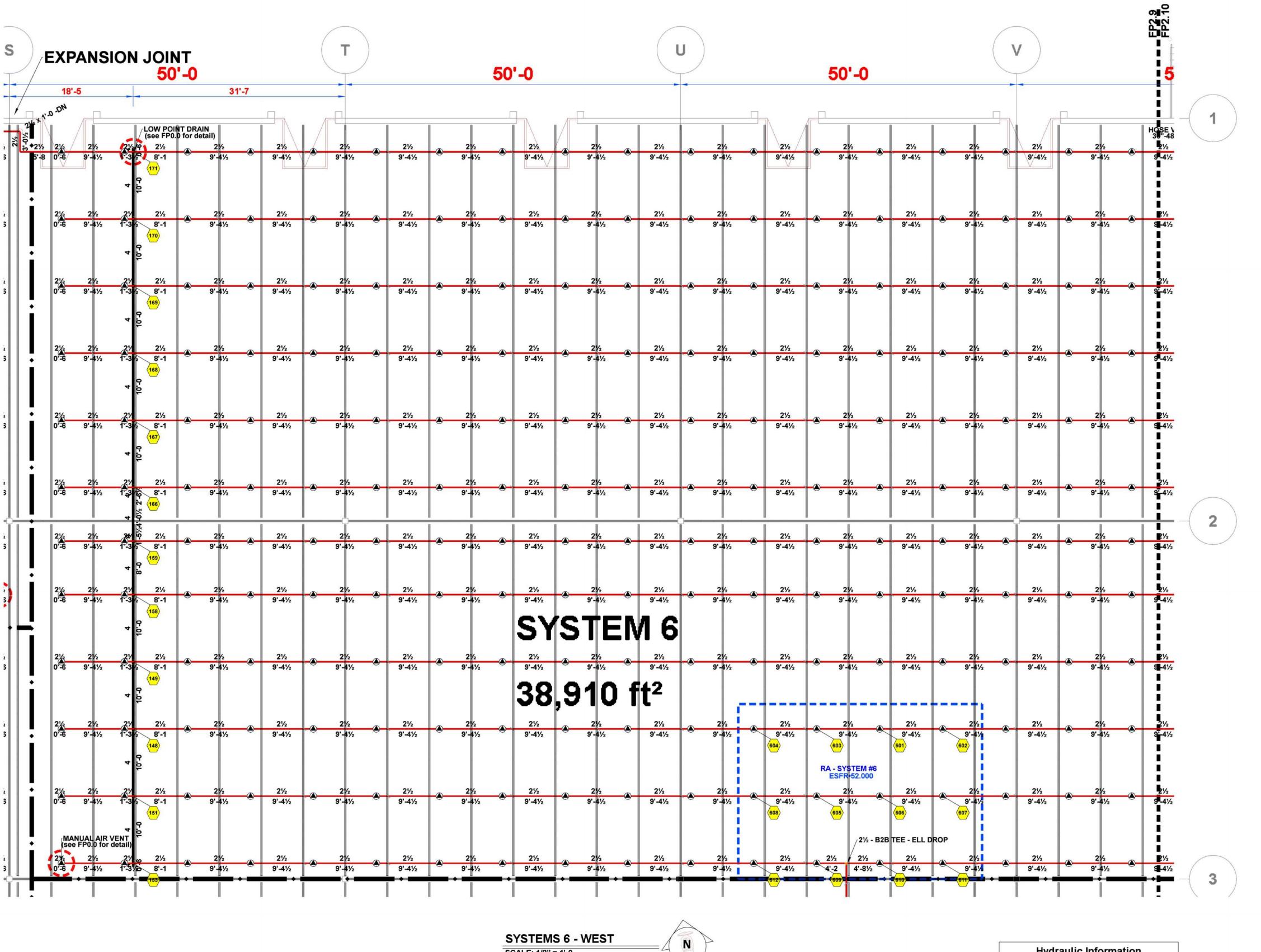
LEE'S SUMMIT LOGISTICS

BUILDING C LOT 2

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

ISSUE D	ATES
PERMIT SET	8-11-22

210300



SCALE: 1/8" = 1'-0

PIPING CENTERLINES BRANCHLINES ARE TO BE HUNG 0'-8" BELOW TOS 6" MAINS ARE TO BE HUNG 1'-7" BELOW TOS 4" MAINS ARE TO BE HUNG 1'-6" BELOW TOS

sys	TEM 1	FP2.5	SYST	FP2.6	syst	геи 6			
FP2.1	FP2.2	FP2.5		FP2.6	FP2.8	FP2.9			
FP2.3 SYSTEM 2	FP2.4	FP2.4	FP2.4		SYST	TEM 4	FP2.10	FP2.10 FP2.1	
	TEM 2	FP2.7	SYST	FP2.7	SYST	ГЕМ 7			

Remote Area #6 - System 6							
OCCUPANCY CLASSIFICATION	ESFR						
MIN. END HEAD PRESSURE	52.000 (ESFR)						
TOTAL HOSE STREAMS	250.00						
TOTAL HEADS FLOWING	12						
K-FACTOR	16.80						
TOTAL WATER REQUIRED	1715.54						
TOTAL PRESSURE REQUIRED	78.504						
BASE of RISER (gpm)	1715.54						
BASE of RISER (psi)	56.477						
SAFETY MARGIN (psi)	+11.045 (12.3%)						

	Sprinkler Legend										
Symbol	Manufacturer	SIN	Model	Quantity	K-Factor	Туре	Size	Response	Finish	Temperature	Note
	Viking	VK503	ESFR	2825	16.80	Pendent	3/4	Quick	Brass	205°F	
0	Viking	VK3501	Microfast	4	8.00	Upright	3/4	Quick	Brass	200°F	BRASS
				Total = 2829							





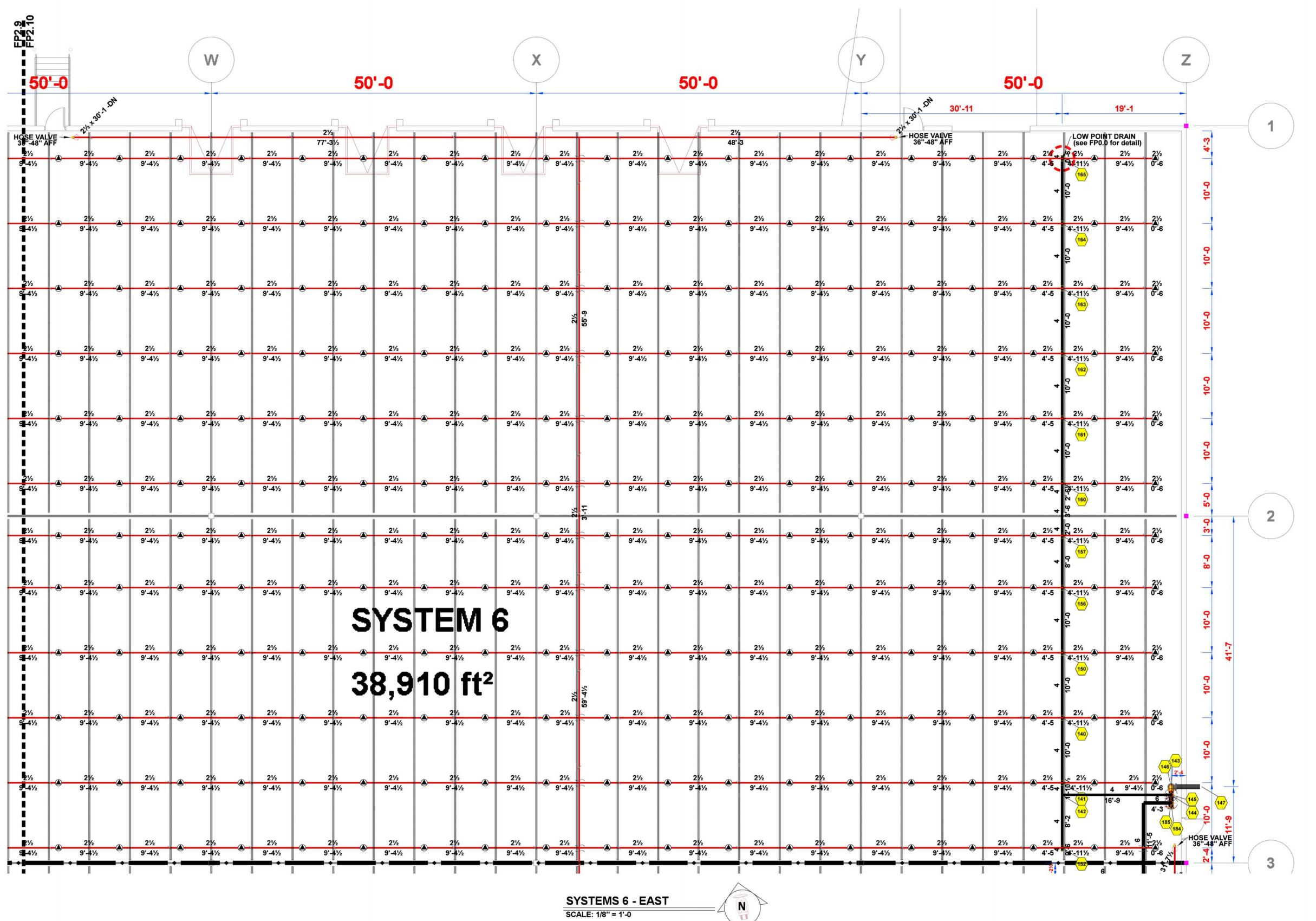
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PROJECT INFORMATION LEE'S SUMMIT LOGISTICS **BUILDING CLOT 2**

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

ISSUE D	ATES
PERMIT SET	8-11-2
2103	00



PIPING CENTERLINES
BRANCHLINES ARE TO BE HUNG 0'-8" BELOW TOS
6" MAINS ARE TO BE HUNG 1'-7" BELOW TOS
4" MAINS ARE TO BE HUNG 1'-6" BELOW TOS

SYST	EM 1	FP2.5	SYSTEM	3 FP2.6	sys	ГЕМ 6
FP2.1	FP2.2	FP2.5		FP2.6	FP2.8	FP2.9
FP2.3	FP2.4		SYSTEM	1	FP2.10	FP2.44
SYST	EM 2	FP2.7	SYSTEM	FP2.7	SYST	TEM 7

Sprinkler Legend											
Symbol	Manufacturer	SIN	Model	Quantity	K-Factor	Туре	Size	Response	Finish	Temperature	Note
	Viking	VK503	ESFR	2825	16.80	Pendent	3/4	Quick	Brass	205°F	
0	Viking	VK3501	Microfast	4	8.00	Upright	3/4	Quick	Brass	200°F	BRASS
				Total = 2829							





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PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS
BUILDING C LOT 2

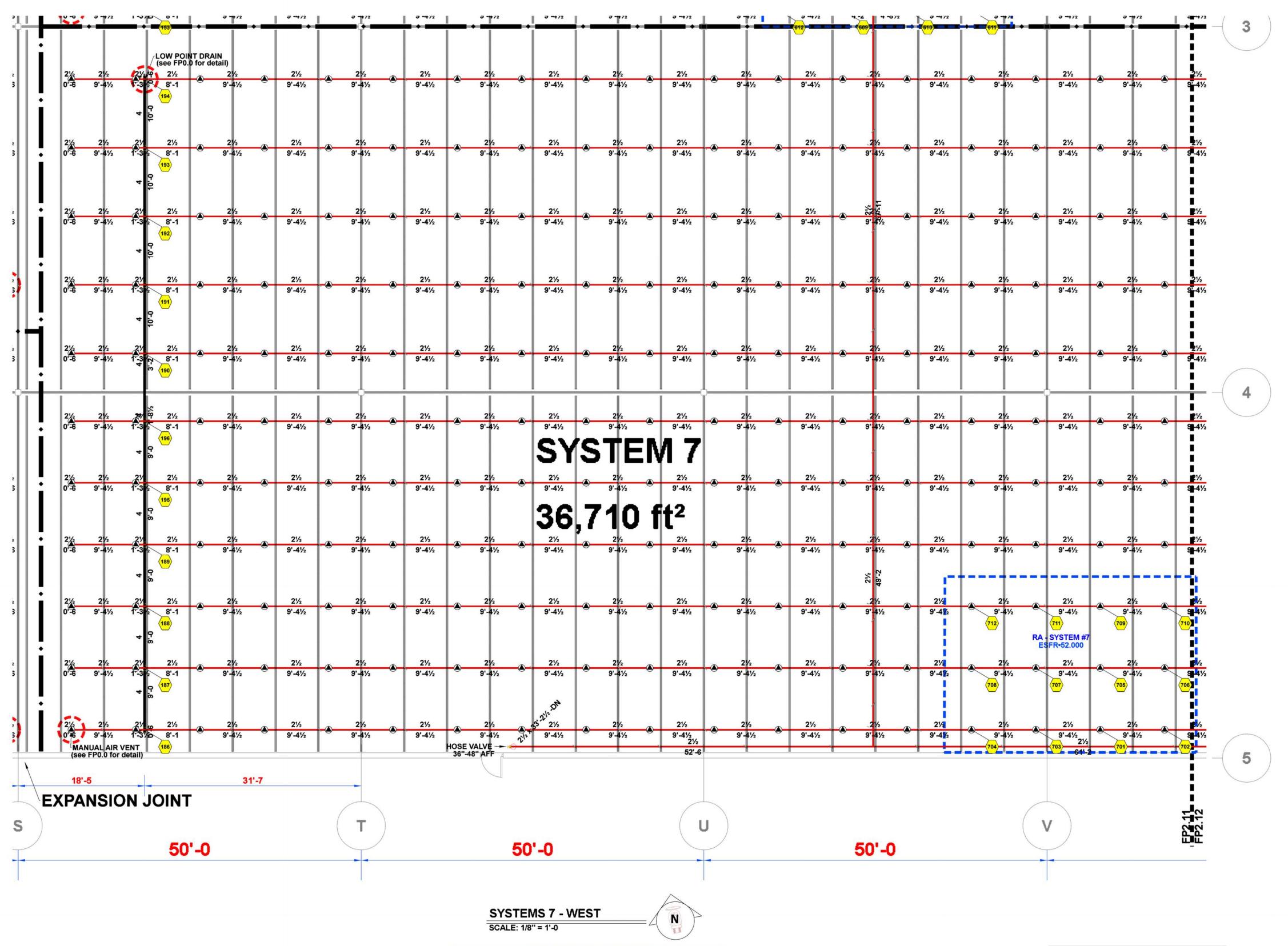
NW CORNER OF

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

PERMIT SET	8-11-22

FP 2.9

210300



SYSTEM 6

SYSTEM 7

FP2.10

FP2.9

FP2.11

SYSTEM 1

SYSTEM 2

FP2.3

FP2.2

FP2.4

FP2.5

FP2.5

FP2.7

FP2.6

FP2.6

FP2.7

SYSTEM 4

SYSTEM 5

PIPING CENTERLINES BRANCHLINES ARE TO BE HUNG 0'-8" BELOW TOS 6" MAINS ARE TO BE HUNG 1'-7" BELOW TOS 4" MAINS ARE TO BE HUNG 1'-6" BELOW TOS

Hydraulic Inform	ation
Remote Area #7- Sys	tem 7
OCCUPANCY CLASSIFICATION	ESFR
MIN. END HEAD PRESSURE	52.000 (ESFR)
TOTAL HOSE STREAMS	250.00
TOTAL HEADS FLOWING	12
K-FACTOR	16.80
TOTAL WATER REQUIRED	1709.12
TOTAL PRESSURE REQUIRED	82.419
BASE of RISER (gpm)	1709.12
BASE of RISER (psi)	60.510
SAFETY MARGIN (psi)	+7.182 (8.0%)

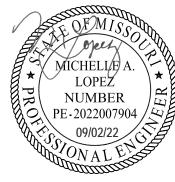
	Sprinkler Legend										
Symbol	Manufacturer	SIN	Model	Quantity	K-Factor	Туре	Size	Response	Finish	Temperature	Note
	Viking	VK503	ESFR	2825	16.80	Pendent	3/4	Quick	Brass	205°F	
()	Viking	VK3501	Microfast	4	8.00	Upright	3/4	Quick	Brass	200°F	BRASS
				Total = 2829							







CERTIFICATION



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PROJECT INFORMATION LEE'S SUMMIT LOGISTICS **BUILDING CLOT 2**

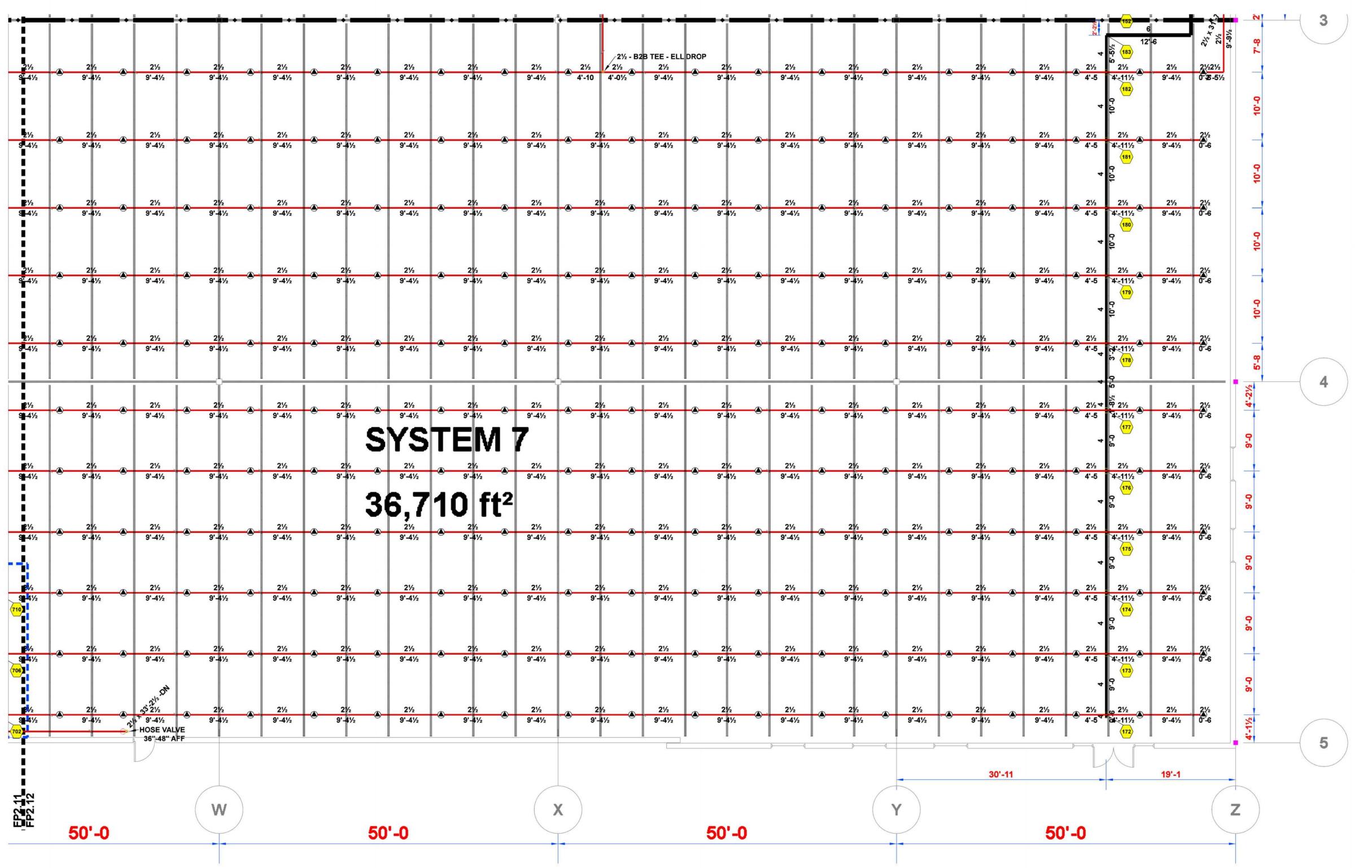
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NW CORNER OF NE TUDOR RD & MAIN ST LEE'S SUMMIT, MO 64086

ISSUE D	ATES
PERMIT SET	8-11-22

FP 2.10

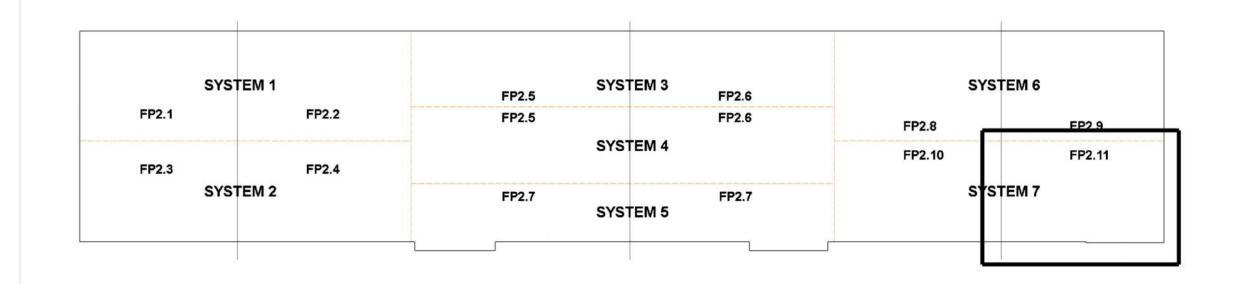
210300



SYSTEMS 7 - EAST

SCALE: 1/8" = 1'-0

PIPING CENTERLINES
BRANCHLINES ARE TO BE HUNG 0'-8" BELOW TOS
6" MAINS ARE TO BE HUNG 1'-7" BELOW TOS
4" MAINS ARE TO BE HUNG 1'-6" BELOW TOS



				Spr	inkler Le	gend					
Symbol	Manufacturer	SIN	Model	Quantity	K-Factor	Туре	Size	Response	Finish	Temperature	Note
	Viking	VK503	ESFR	2825	16.80	Pendent	3/4	Quick	Brass	205°F	
0	Viking	VK3501	Microfast	4	8.00	Upright	3/4	Quick	Brass	200°F	BRASS
				Total = 2829			100				

F.E. MORAN





CERTIFICATION
MICHELIF A. LOPEZ NUMBER PE-2022007904 09/02/22

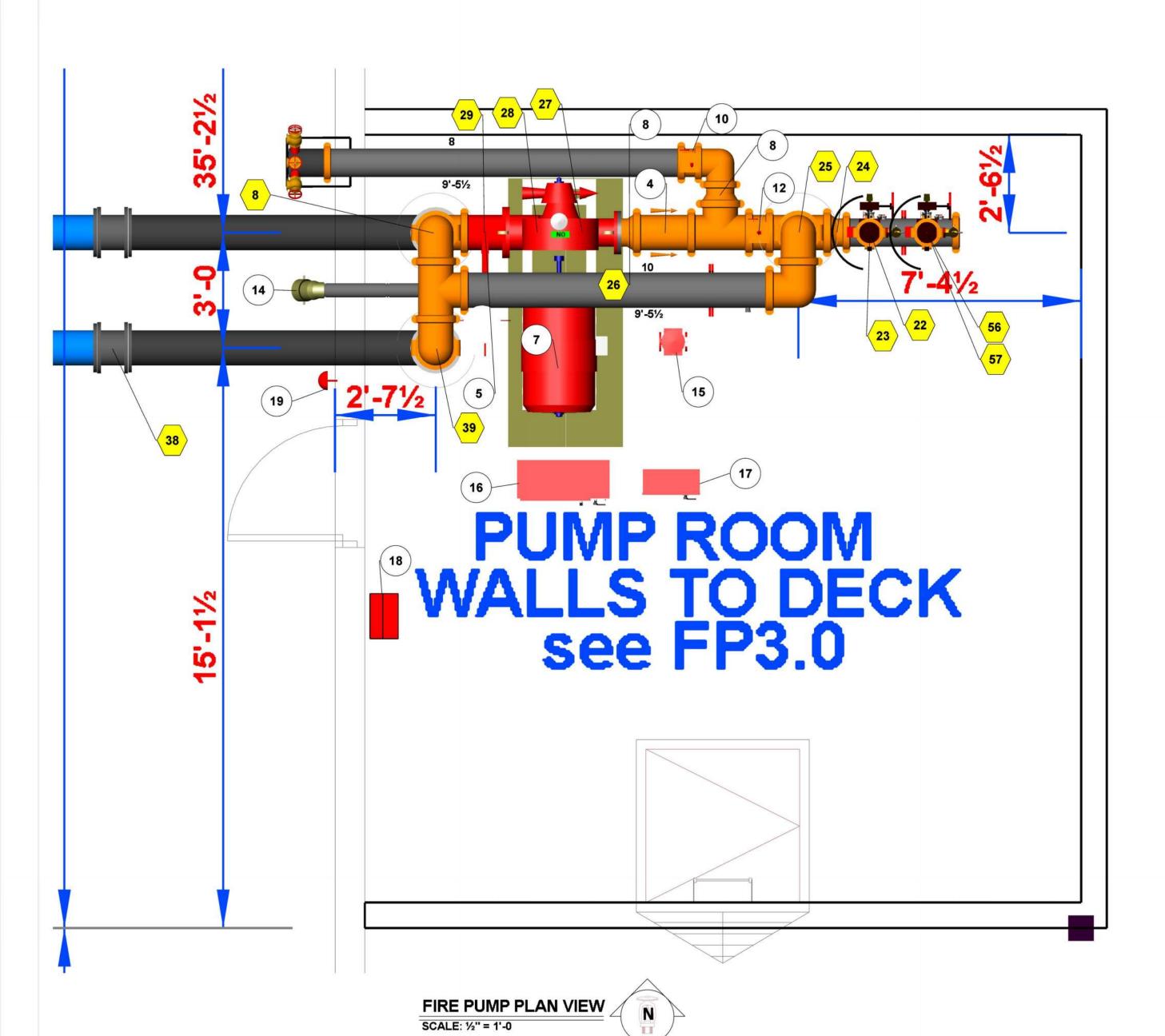
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PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS

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

ISSUE D	ATES
PERMIT SET	8-11-
2103	00



FIRE PUMP NOTES:

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

NFPA 20 REQUIREMENTS:

EQUIPMENT PROTECTION:

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

PIPE AND FITTINGS:

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

SUCTION PIPE AND FITTINGS:

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

DISCHARGE PIPE:

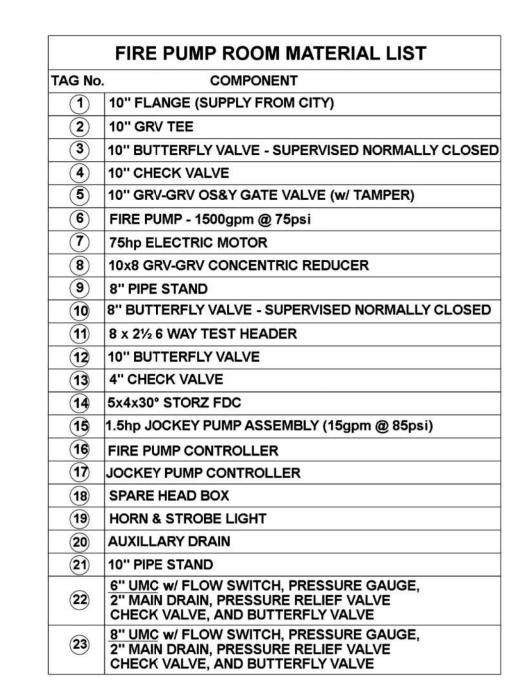
SHALL BE HYDROSTATICALLY TESTED IN ACCORDANCE WITH NFPA 13. THE SIZE OF THE PUMP DISCHARGE PIPE AND FITTINGS SHALL BE NOT LESS THAN THAT GIVEN IN NFPA 20.

ELECTRIC DRIVE FOR PUMPS:

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

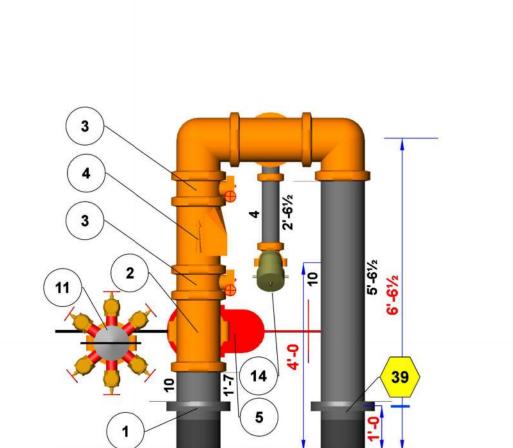
FIRE PUMP CONTROLLER:

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



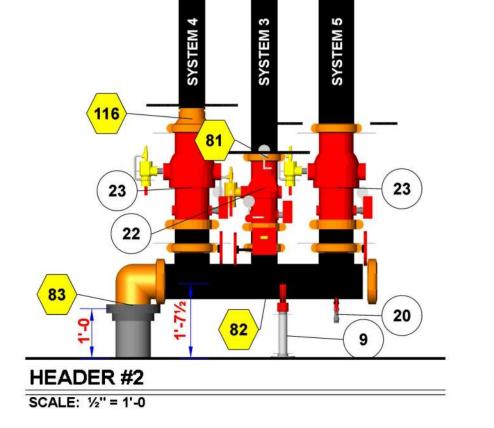
N.T.S.

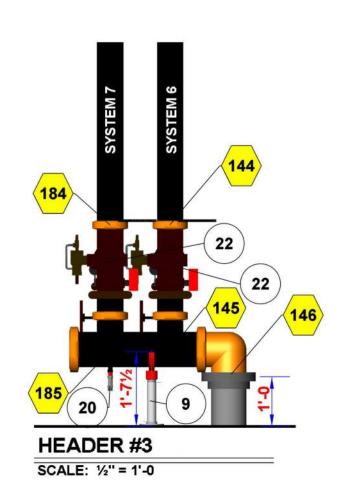
N.T.S.



FIRE PUMP SECTION VIEW - B

SCALE: 1/2" = 1'-0







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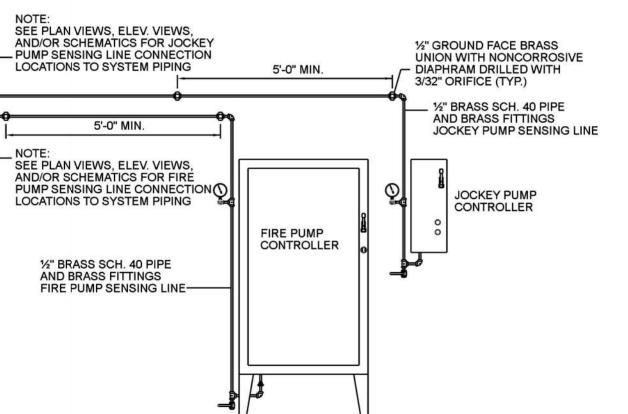
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PROJECT INFORMATION LEE'S SUMMIT LOGISTICS **BUILDING C LOT 2** NW CORNER OF **NE TUDOR RD & MAIN ST**

LEE'S SUMMIT, MO 64086

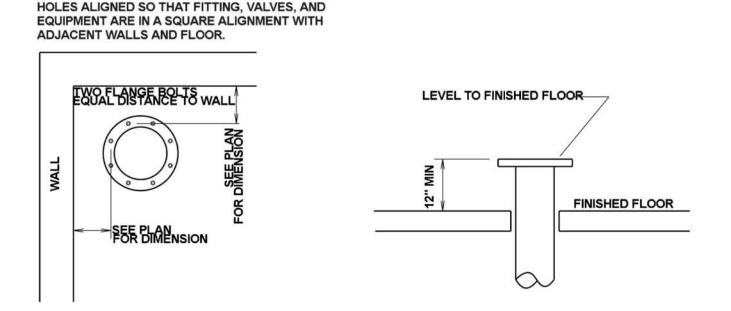
ISSUE DATES

PERMIT SET



FIRE PUMP AND JOCKEY PUMP SENSING LINE SCHEMATIC

FIRE PUMP SECTION VIEW - A



INCOMING FIRE PROTECTION SUPPLY DETAIL

NOT TO SCALE

N.T.S.

NOTE: ALL FIRE PROTECTION PIPING STUB-UPS

(INCLUDING PUMP ROOMS), SHALL BE INSTALLED

UTILIZING THE "2-HOLE METHOD" ON ALL FLANGES.

THE FLANGE SHALL BE INSTALLED WITH THE BOLT

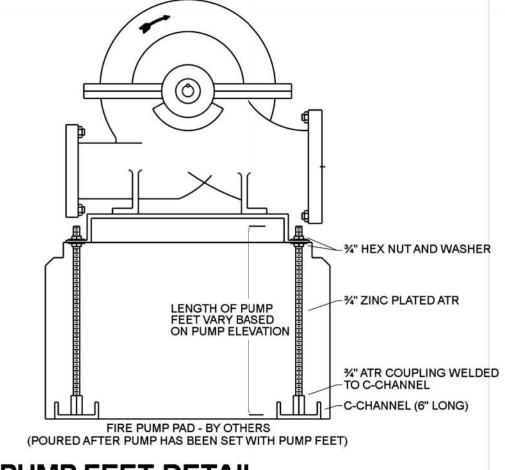
WHETHER INSIDE OR OUTSIDE A BUILDING

1/2" BRASS JOCKEY PUMP SENSING LINE, SEE FIRE PUMP AND JOCKEY PUMP SENSING SCHEMATIC ON THIS DWG. ⊊ 1/2" GALV. PIPE AND FITTINGS FROM FIRE PUMP PACKING GLAND DRIP BASIN, FIRE PUMP CASING RELIEF VALVE, DISCHARGE TO INTERIOR FLOOR DRAIN DISCHARGE TO INTERIOR FLOOR DRAIN-BALL VALVE (NO TAMPER ST FIRE PUMP SUPPORT MATERIALS PER PROJECT REQUIREMENTS -1" BLK. DISCHARGE 1" BLK. SUCTION PIPE AND FITTINGS PIPE AND FITTINGS ELECTRIC MOTOR DRIVE

N.T.S.

JOCKEY PUMP SCHEMATIC

ELECTRIC FIRE PUMP SCHEMATIC



PUMP FEET DETAIL

FP 3.0