



CURRAN
ARCHITECTURE

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

4/26/2022



LEE'S SUMMIT LOGISTICS
BUILDING A LOT I

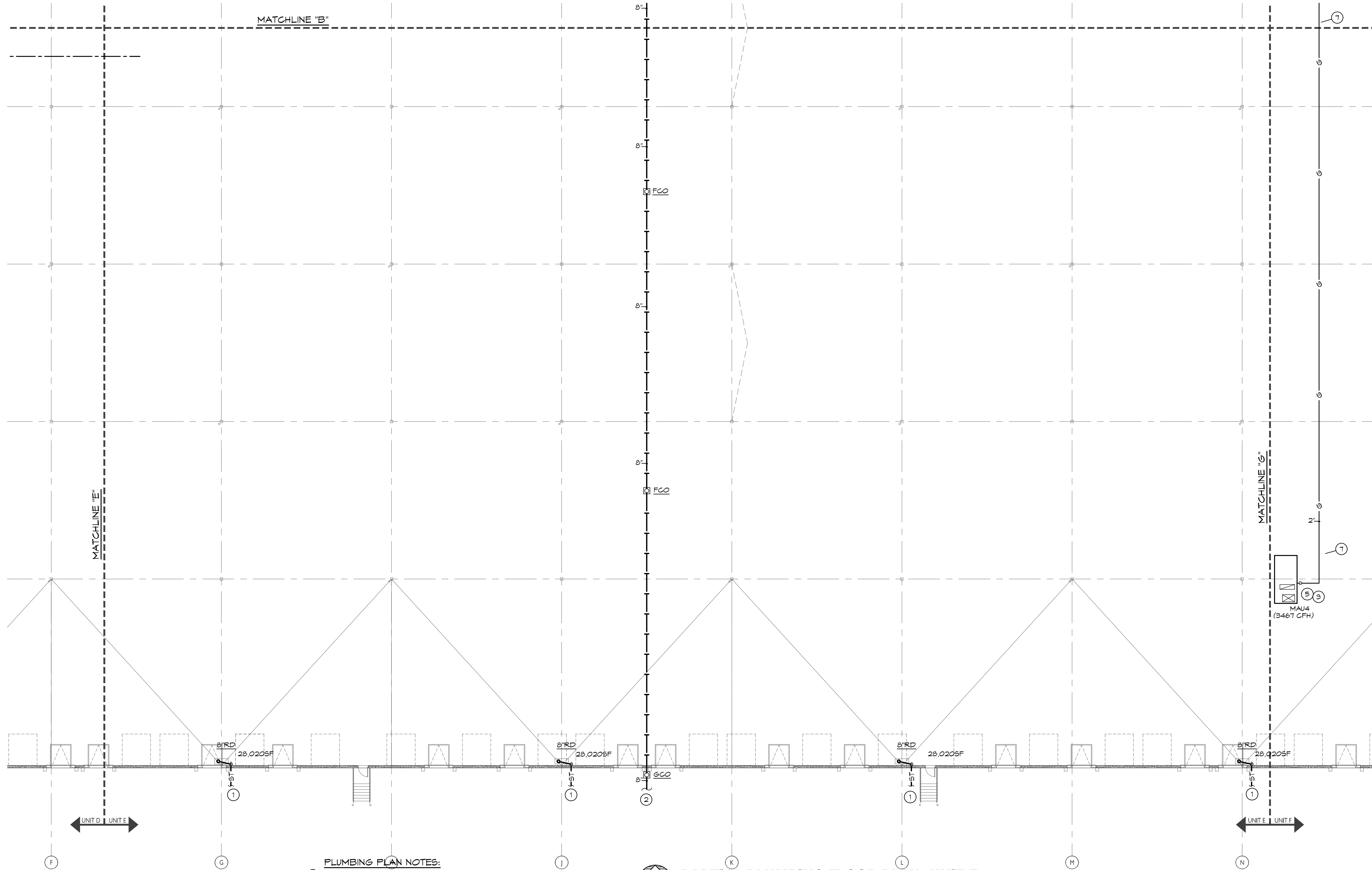
NW CORNER OF
NE TUDOR RD & MAIN ST
LEE'S SUMMIT, MO 64086

PERMIT SET 02.18.22

210300

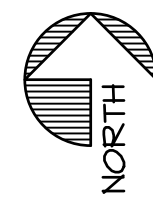
PLUMBING PLAN
AREA E

P104



PLUMBING PLAN NOTES:

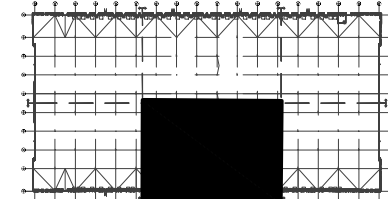
- 1 REFER TO CIVIL FOR 8" STORM PIPE. MAINTAIN A MIN. OF 24" COVER.
- 2 REFER TO CIVIL FOR 8" WASTE PIPE. MAINTAIN A MIN OF 30" COVER.
- 3 GAS PIPE UP THROUGH ROOF TO MAU CONNECTION. SEAL PENETRATION WEATHER TIGHT.
- 4 INSTALL FREEZE PROOF WALL HYDRANT 18" ABOVE GRADE.
- 5 CONNECT GAS PIPING TO EQUIPMENT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



PARTIAL PLUMBING FLOOR PLAN "UNIT E"

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

FFE = 991.50'



KEY PLAN

SCALE: NTS

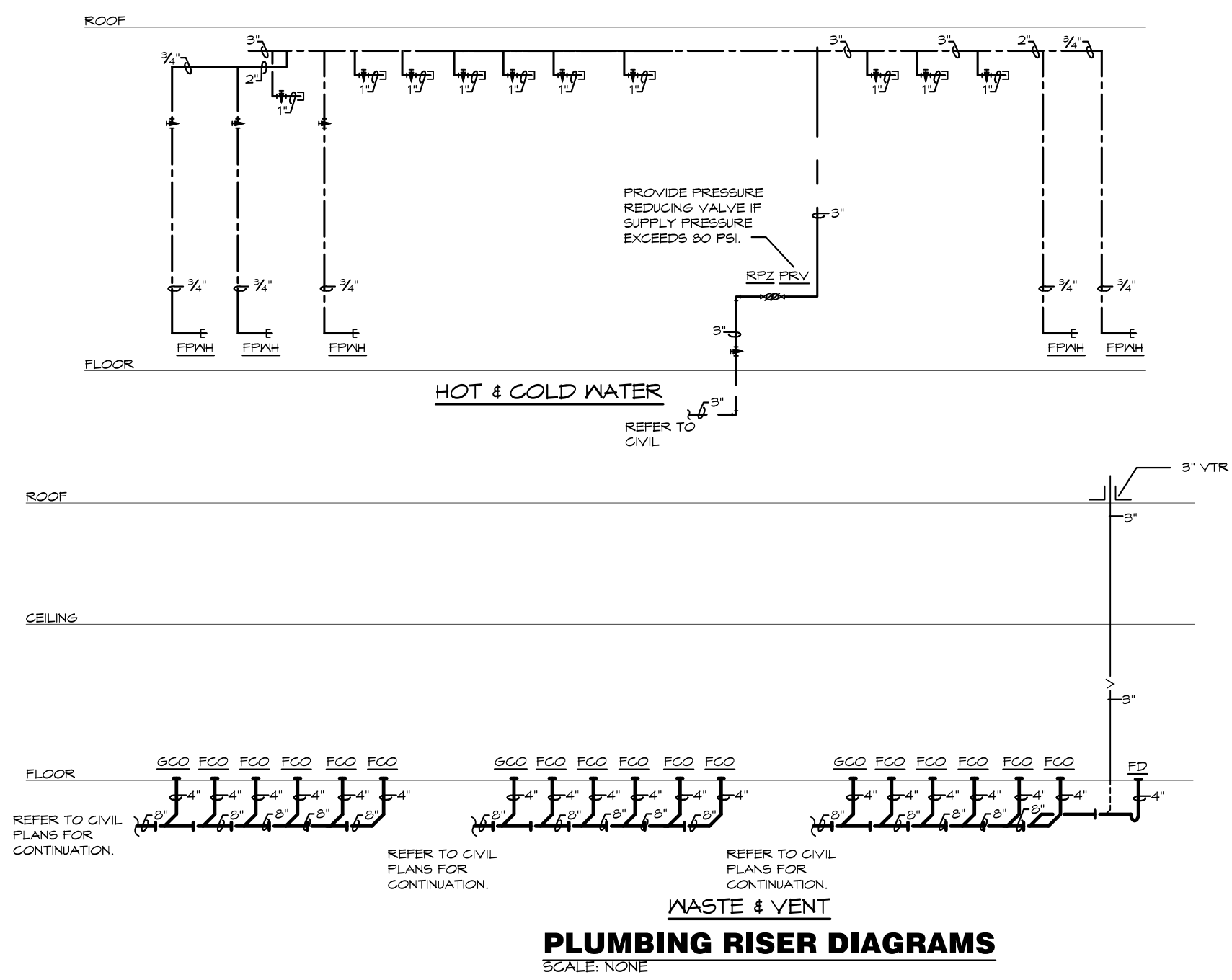
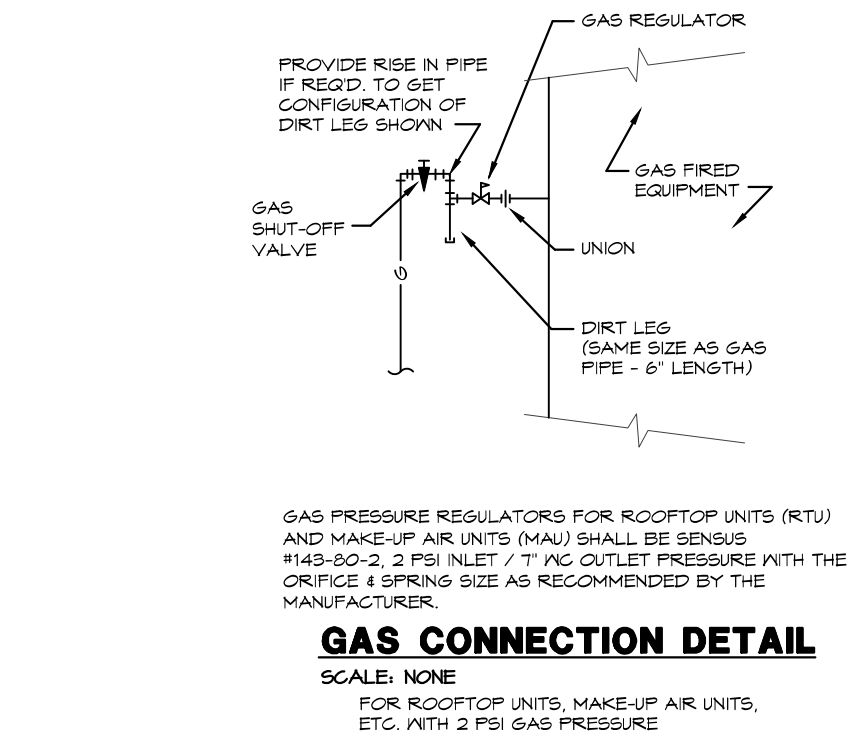
BC PROJECT #22208
MISSOURI PE COA #2009003629

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





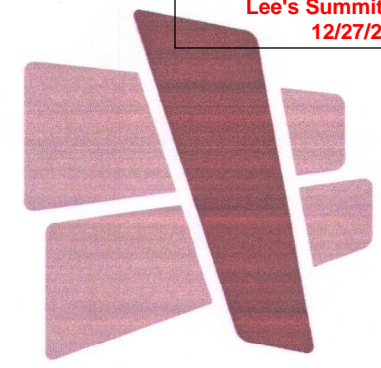
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LEE'S SUMMIT, MO 64086

210300
PLUMBING
SPECIFICATION

PLUMBING SPECIFICATIONS (CONTINUED)

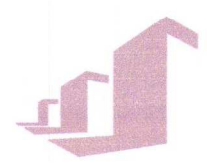
- STORM SEWER, SANITARY SEWER, GREASE WASTE, SAND OIL WASTE, AND VENTS.
(UNDERGROUND, EXTERIOR TO THE BUILDING).
- I. ABS SCHEDULE 40 CELLULAR CORE (FOAM CORE) PIPE AND DRYV FITTING SYSTEM (ASTM F1488).
PIPE AND FITTINGS SHALL BE MANUFACTURED FROM ABS COMPOUND WITH A CELL CLASS OF 42222 FOR PIPE AND 32222 FOR FITTINGS AS PER ASTM D 3565 AND CONFORM WITH NATIONAL SANITATION FOUNDATION (NSF) STANDARD 14. PIPE SHALL BE IRON PIPE SIZE (IPS) CONFORMING TO ASTM F 620. FITTINGS SHALL CONFORM TO ASTM D 2661. SOLVENT CEMENTS SHALL CONFORM TO ASTM D 2235.
- J. PVC SCHEDULE 40 CELLULAR CORE (FOAM CORE) PIPE AND DRYV FITTING SYSTEM (ASTM F1488).
PIPE AND FITTINGS SHALL BE MANUFACTURED FROM PVC COMPOUND WITH A CELL CLASS OF 11432 PER ASTM D 3596 FOR PIPE AND 12454 PER ASTM D 1154 FOR FITTINGS AND CONFORM WITH NATIONAL SANITATION FOUNDATION (NSF) STANDARD 14. PIPE SHALL BE IRON PIPE SIZE (IPS) CONFORMING TO ASTM F 681. INJECTION MOLDED FITTINGS SHALL CONFORM TO ASTM D 2665. FABRICATED FITTINGS SHALL CONFORM TO ASTM D 1886. SOLVENT CEMENTS SHALL CONFORM TO ASTM D 2564.
- K. PVC SCHEDULE 40 SOLID WALL PIPE AND DRYV FITTING SYSTEM (ASTM D 2665).
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- L. 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 880 AND GISEI STANDARD 301. HUBLESS COUPLINGS SHALL CONFORM TO GISEI STANDARD 310 AND BE CERTIFIED BY NSF8 INTERNATIONAL.
- M. HUB AND SPROGOT CAST IRON SOIL PIPE AND FITTINGS. HUB AND SPROGOT CAST IRON PIPE AND FITTINGS SHALL BE MANUFACTURED FROM GRAY CAST IRON AND SHALL CONFORM TO ASTM A 74.
- F. STORM SEWER, SANITARY SEWER, GREASE WASTE, SAND OIL WASTE, AND VENTS.
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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 880 AND GISEI STANDARD 301. HUBLESS COUPLINGS SHALL CONFORM TO GISEI STANDARD 310 AND BE CERTIFIED BY NSF8 INTERNATIONAL.
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- N. COPPER DRYV. DRAINAGE TUBE SHALL CONFORM TO ASTM B306, VROUGHT COPPER FITTINGS, AND E-16-29.
- O. GALVANIZED STEEL PIPE, WITH MALLEABLE IRON, THREADED FITTINGS, DRAINAGE PATTERN FOR SEWERS SHALL CONFORM TO ASTM A 53.
- H. NATURAL GAS.
1. BLACK STEEL, PIPE, SCHEDULE 40, ASTM A53.
2. PIPE 3" AND SMALLER; 150 LB MALLEABLE IRON, THREADED FITTINGS.
3. PIPE 4" AND SMALLER; VESDA BEAPRESS 6 FOR WATER AND GAS, GAS LCA4, T55A/ASME B31.
4. FOR USE WITH ASHTA 1000, APPROVALS: UL842, FM, GAS, NSF 610, MSS SP-110.
5. PIPE 2-1/2" AND LARGER, WELDED.
6. PLUG VALVE: ROCKWELL NORDSTREAM FIGURE NO. 142 OR 143.
7. BALL VALVE: JOMAX T-100NE, APPROVALS: UL842, FM, GAS, NSF 610, MSS SP-110.
8. GAS PIPES LABELING:
- a) ALL ELEVATED PRESSURE GAS PIPING SHALL BE LABELED EVERY 40 FEET WITH SIGNS INDICATING "ELEVATED PRESSURE".
9. GAS PIPING PAINTING:
- a) ALL BLACK STEEL GAS PIPING LOCATED EXTERIOR TO THE BUILDING SHALL BE PRIMED AND PAINTED TO EIT. VAPOR INJURY HAZARD OR MINOR CORROSION. IF LOCATED ON OR NEAR EXTERIOR WALL AND PAINTED SAFETY YELLOW LOCATED ON THE ROOF.
10. ALL PIPE HANGERS AND SUPPORTS SHALL BE STANDARD PRODUCTS OF GRINNELL, FEE AND MASON, OR ELLEN. HANGER SPACING SHALL BE IN ACCORDANCE WITH MSS-SP-64.
- J. SLEEVES
1. PROVIDE, SET, AND PROPERLY LOCATE PIPE SLEEVES AS REQUIRED FOR THIS WORK. ALL SLEEVES SHALL BE OF SUFFICIENT SIZE TO PERMIT PIPE MOVEMENT DUE TO EXPANSION AND CONTRACTION AND TO ACCOMMODATE PIPE INSULATION.
2. INTERIOR PARTITIONS: 16-GAGE GALVANIZED STEEL, PLAC BETWEEN PIPE AND SLEEVE WITH FIRE RESISTING AND GASKETING TO PREVENT FIRE RESISTANCE.
3. ROOF: PROTECT OR EROD, 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 UNDER SLAB. IF CONTACT WITH CONCRETE OR OTHER MATERIALS IS UNAVOIDABLE, IT SHALL BE PROTECTED WITH A 1/4" THICK SOL. SHEATHING USED TO PREVENT DIRECT CONTACT SHALL HAVE A THICKNESS OF GREATER THAN .005; AND THE SHEATHING SHALL BE MANUFACTURED FROM GRAY CAST IRON OR SHALL CONFORM TO ASTM A 74.
5. PREVENTED WITH A RELIEVING ARCH, OR A PIPE SLEEVE SHALL BE BUILT INTO THE FOUNDATION WALL. THE SL SHALL BE TWO TIMES GREATER THAN THE PIPE PASSING THOUGH THE WALL OR FOOTING.
5. PLUMBING VENTS: FLASH ROOF VENT INTO ROOFING SYSTEM AS REQUIRED BY THE ROOFING.
6. VENTS TO ROOF: VENTS TO ROOF SHALL BE PROTECTED WITH A 1/4" THICK SOL. SHEATHING SHALL TERMINATE A MINIMUM OF 12" ABOVE ROOF OR EQUAL TO HEIGHT OF PARAPET, WHICHEVER IS GREATER.
- INSULATION:
1. ALL INSULATIONS AND ACCESSORIES SHALL HAVE A FIRE HAZARD CLASSIFICATION WITH A FLAME SPREAD RATINGS OF NOT OVER 25, A FUEL CONTRIBUTION RATINGS OF NOT OVER 50, AND A SMOKE DEVELOPED RATING OF NOT OVER 50, IN ACCORDANCE WITH NFPA.
2. PIPE INSULATION - ABOVE GRADE:
- 1) THE PIPING INSULATION USED SHALL HAVE A THERMAL CONDUCTIVITY OF 0.27 BTU IN/IN²HT/FT OR LESS.
- 2) FIBERGLASS INSULATION WITH FACTORY APPLIED VAPOR BARRIER, ASB JACKET, FACTORY APPLIED PRESSURE SEALING LONGITUDE LAP JOINT, NO STAPLES, ZESTON, PREMOULDED PIPY FITTING COVERS. INSTALLATION TO BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- 3) FLEXIBLE CLOSED CELL ELASTOMERIC THERMAL INSULATION, UNSULIT OR PRESULIT NATI PRESSURE SENSITIVE CHEMICAL RESISTANT OR GLOUSE AND VAPOR SEALING, TO BE STRONGS AR ARMARFLEX OR ARMARFLEX 2000.
- 4) FOR NON CIRCULATING SYSTEMS, THE FIRST 8 FEET OF INLET AND OUTLET PIPING BETWEEN THE TANK AND THE HEAT TRAP (INCLUDING THE HEAT TRAP) MUST BE INSULATED.
- 5) FOR CIRCULATING SYSTEMS, ALL HOT WATER PIPING IN THE CIRCULATION LOOP MUST BE INSULATED AS SPECIFIED BELOW.
- 6) INSULATION SCHEDULE:
- a) DOMESTIC COLD WATER 1/2"
- b) DOMESTIC HOT WATER 1" FOR PIPING UP TO 1-1/4"; 1-1/2" FOR PIPING 1-1/2" AND LARGER
- c) HOT WATER RECIPIENT TANKS 1"
- d) CONDENSATE DRAINS INSIDE BUILDING 1"
- e) REFRIGERANT SUCTION 3/4" FOR PIPING UP TO 1-1/4"; 1" FOR PIPING 1-1/2" AND LARGER
- f) HORIZONTAL STORM PIPE 2"
- g) HORIZONTAL STORM OVERFLOW PIPE 1/2"
- ????? 1) ROOF DRAINS 1" INSULATION SHALL BE PROVIDED AT ROOF DRAIN BODY AND A MINIMUM OF 10" OF HORIZONTAL INSULATION SHALL BE PROVIDED FOR THE INSULATION OF HORIZONTAL AND VERTICAL STORM PIPING DOWNSTREAM OF ROOF DRAIN BODY.

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



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PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS
BUILDING A LOT I

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

ISSUE DATES

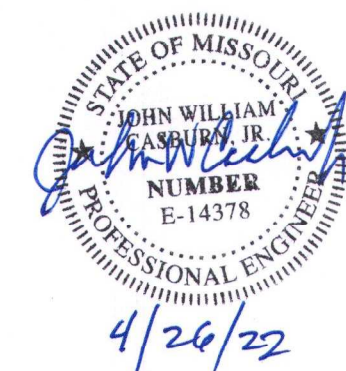
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HERITAGE ELECTRIC, L.L.C.
841 N. MARTWAY
Olathe, Kansas
phone (913) 663 1200
fax (913) 663 2025



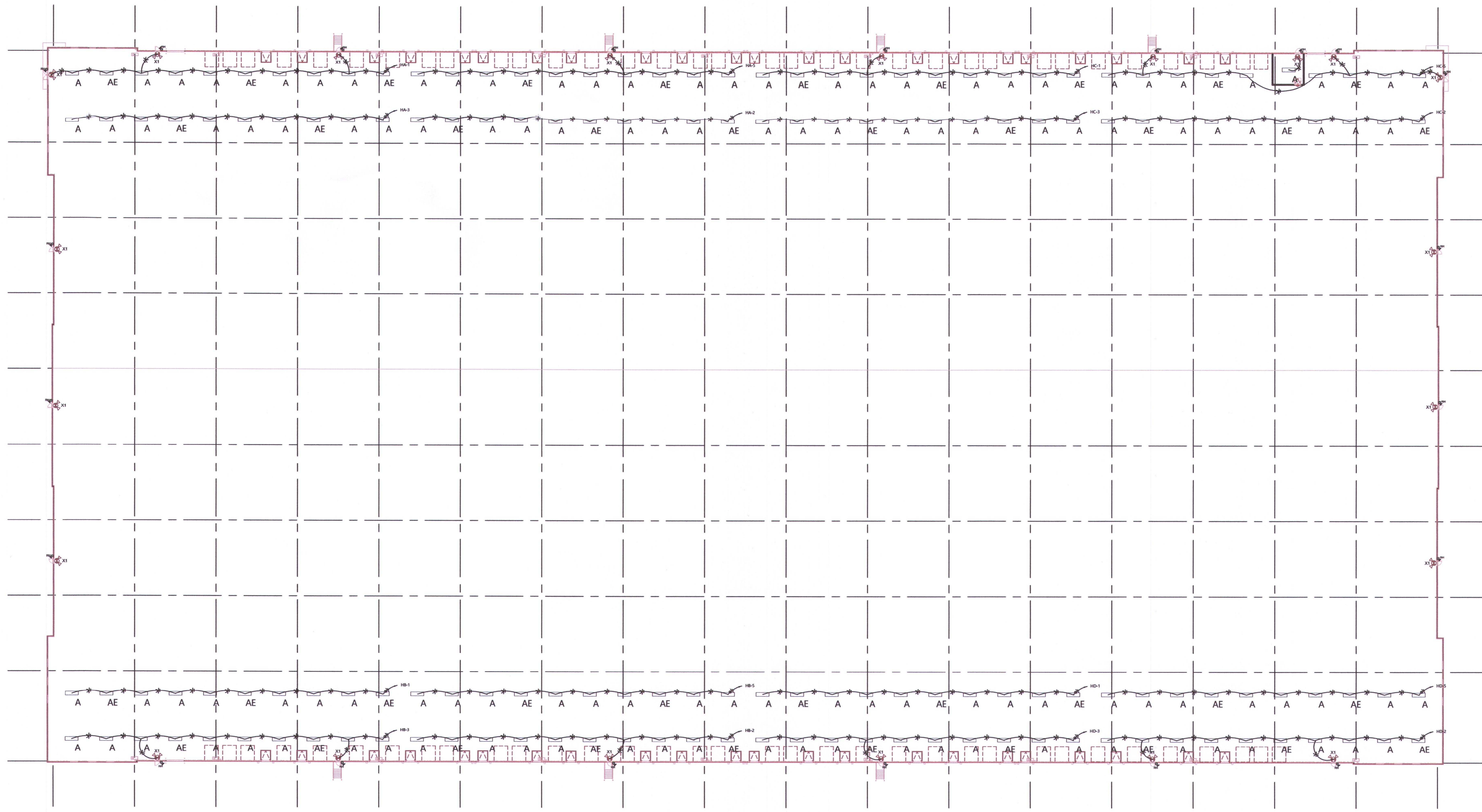
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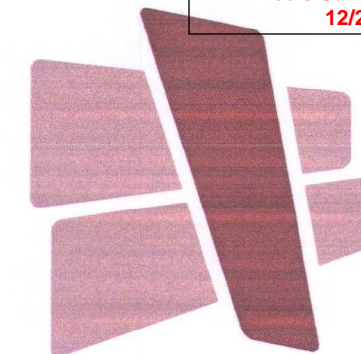


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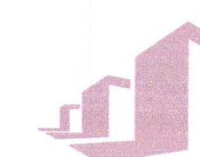


1 LIGHTING PLAN
1" = 40'



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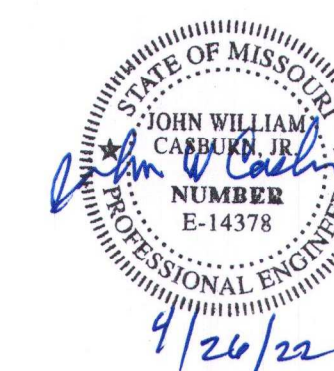
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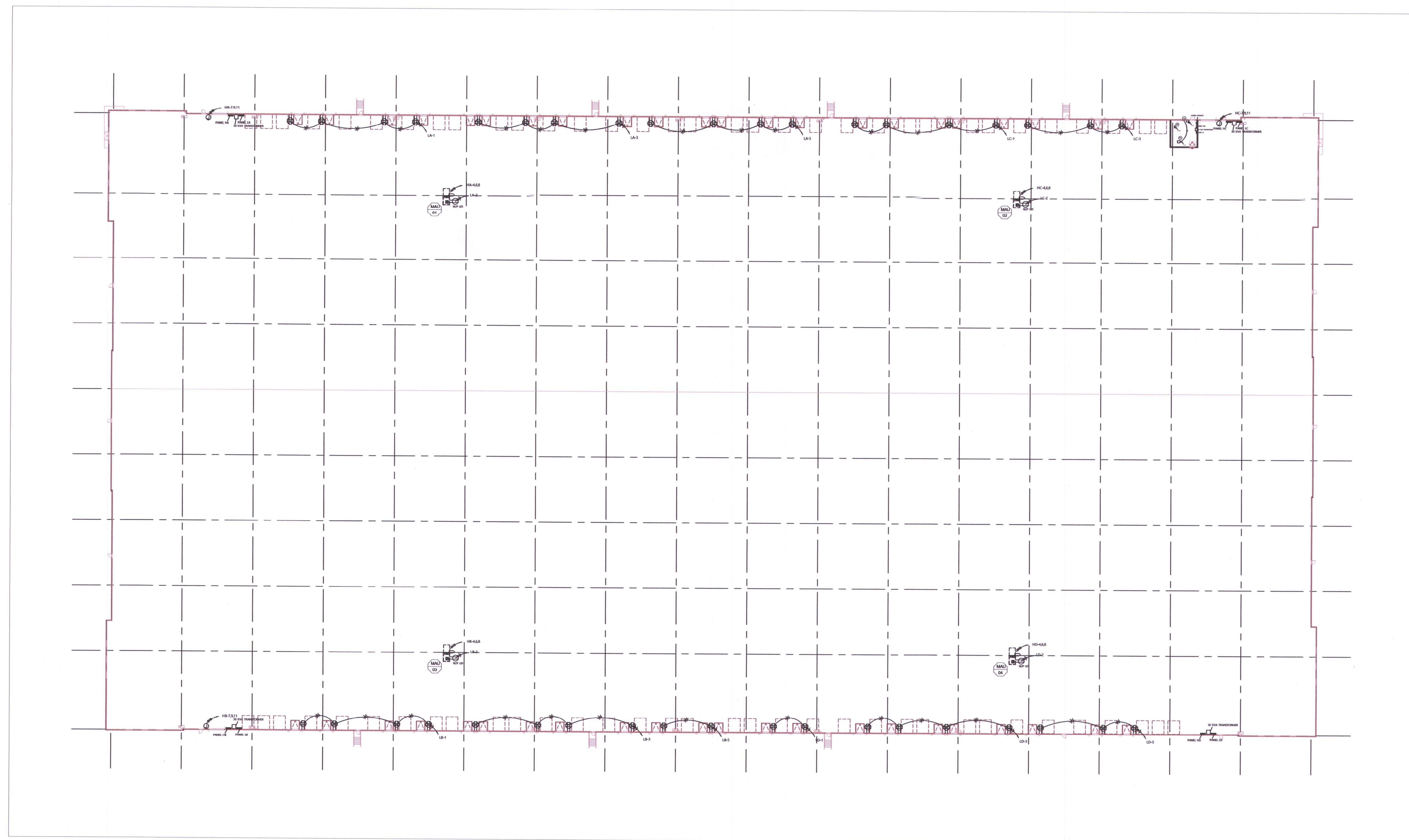
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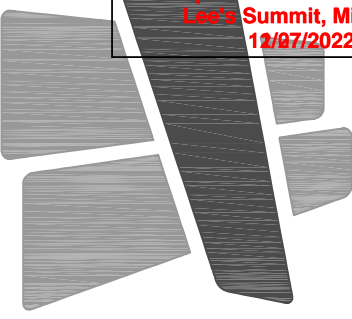


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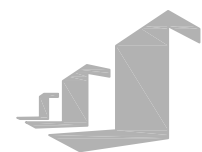


POWER PLAN
1" = 40'



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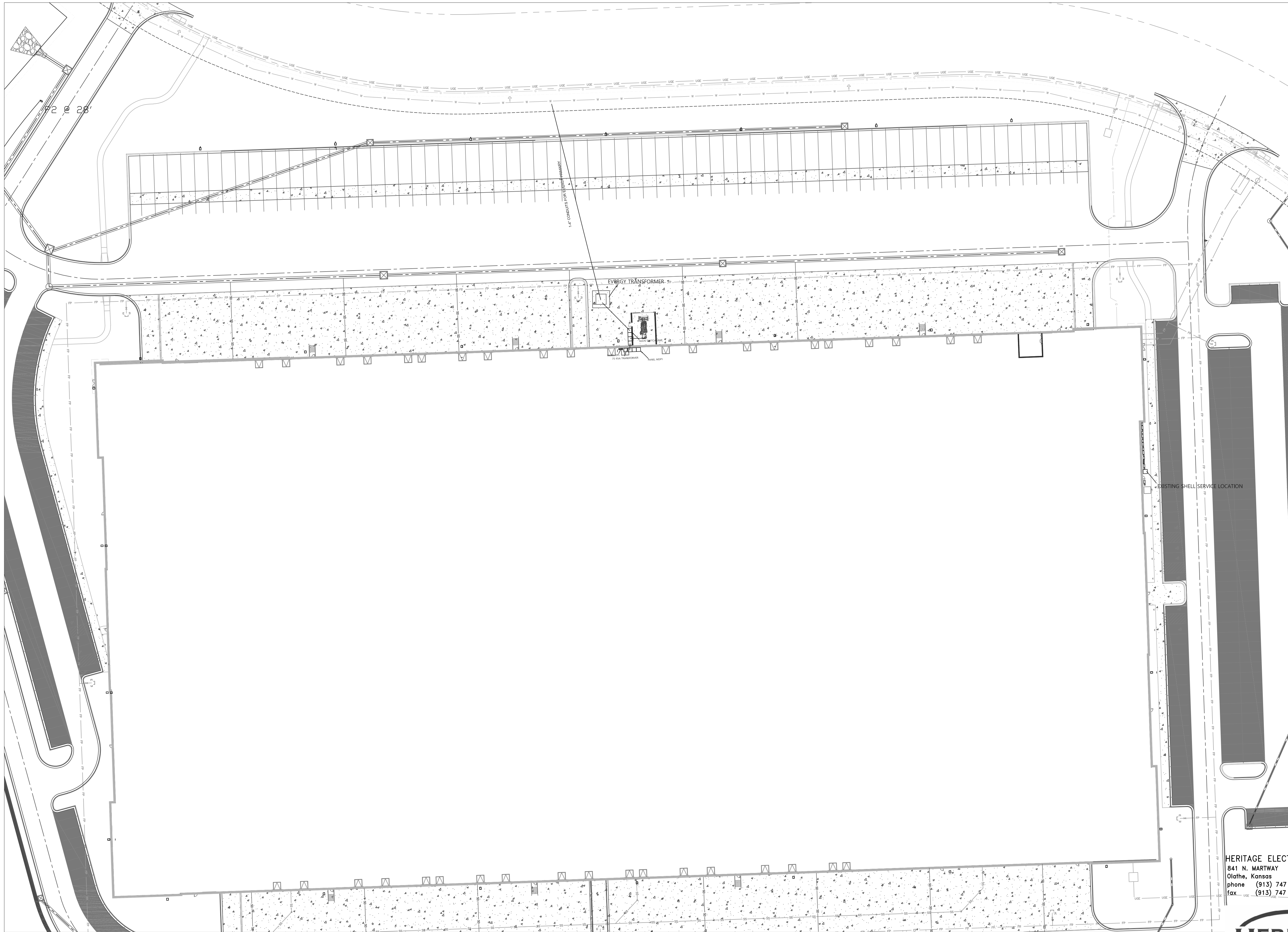
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CITY COMMENTS	10.17.22

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Site

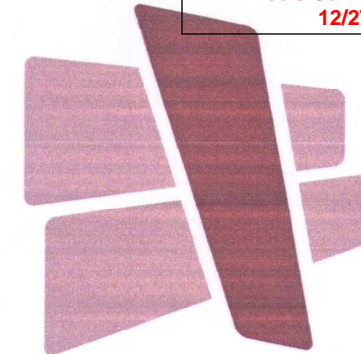
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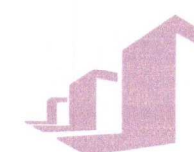
1 Site
scale: N.T.S
north

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PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS
BUILDING A LOT I

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

ISSUE DATES

PERMIT SET 02.18.22

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



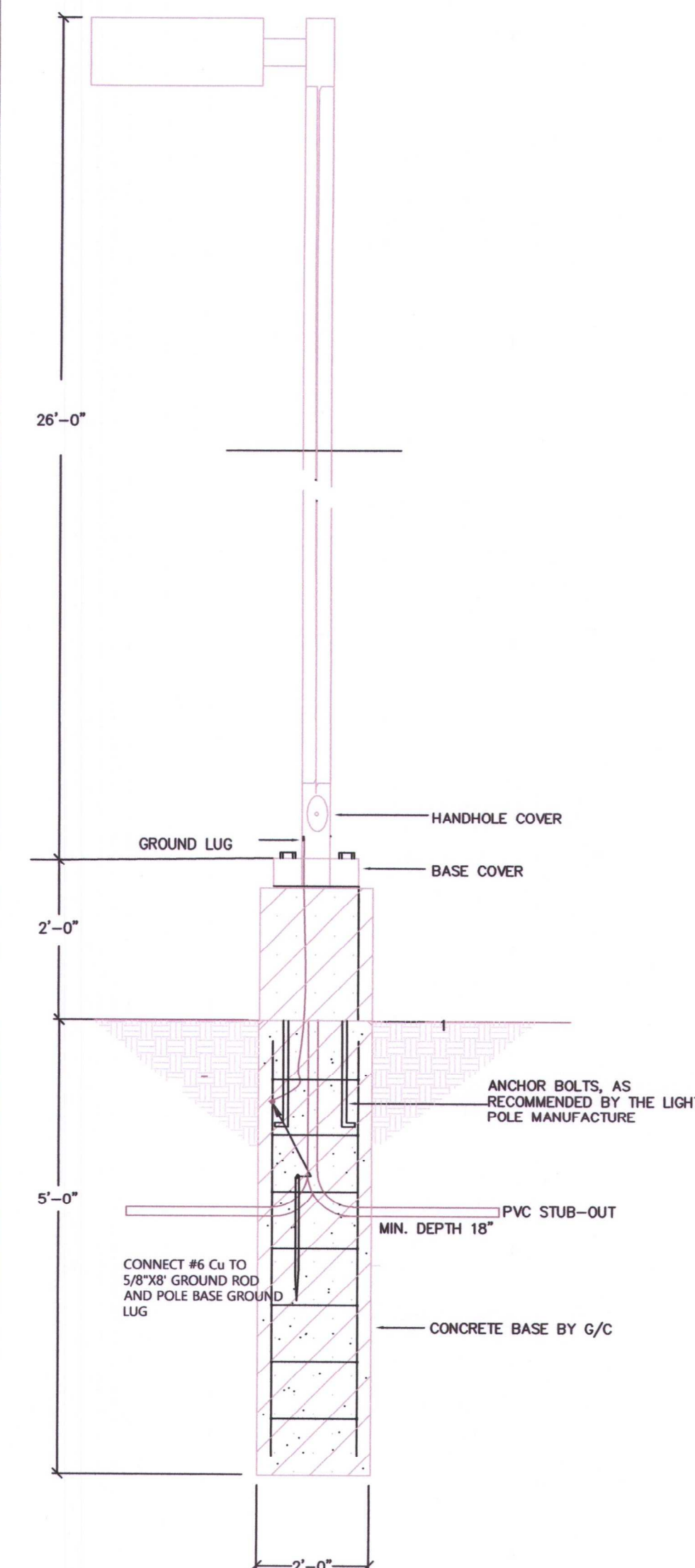
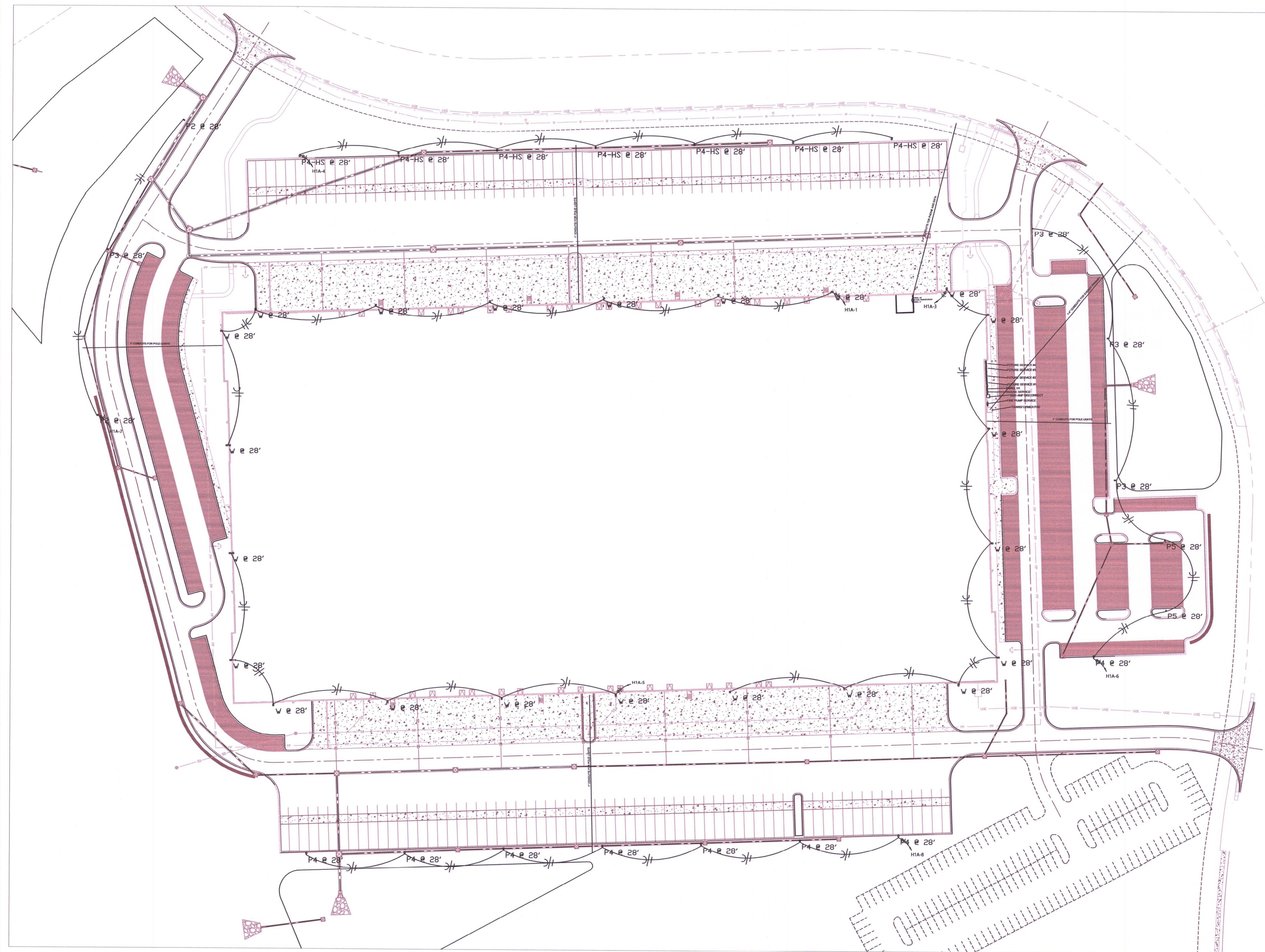
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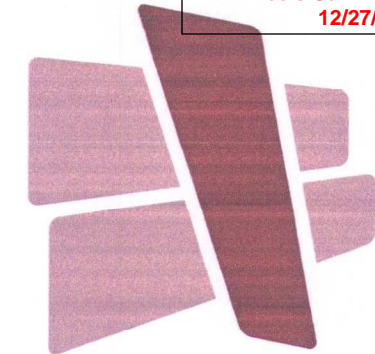
STATE OF MISSOURI
JOHN WILLIAM
GASBORN, IV
ELECTRICAL ENGINEER
NUMBER
E-14378
4/24/22

210300

E5.00



1 SITE
1/64" = 1'



CURRAN
ARCHITECTURE

5719 LAWTON LOOP E. DR. #212
INDIANAPOLIS, IN 46216
O :: 317.288.0681
F :: 317.288.0753



SCANNELL
PROPERTIES

CERTIFICATION

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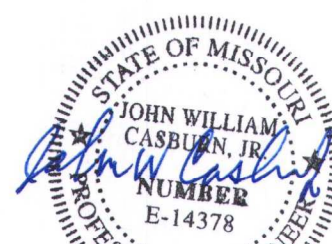
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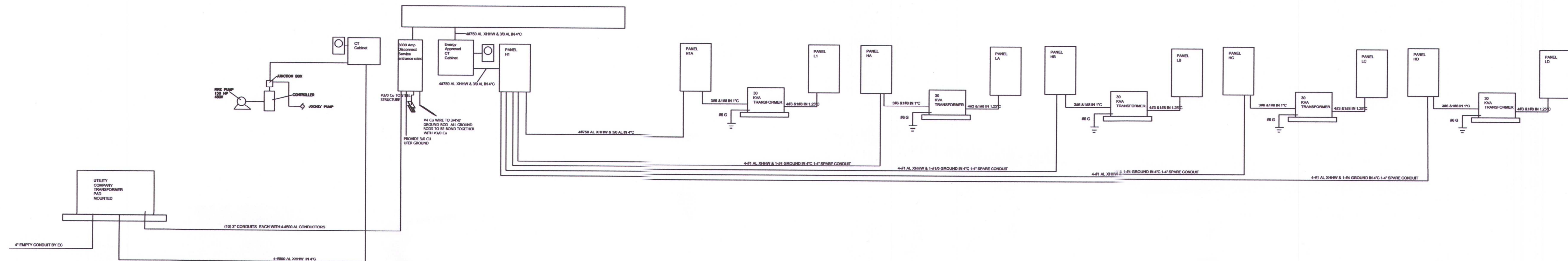
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4/26/22

210300

E6.00



1 RISER DIAGRAM
N.T.S

LIGHT FIXTURE SCHEDULE						
TYPE	MANUFACTURER	CATALOG NO.	LAMPS	MOUNTING	VOLTS	REMARKS
A	Columbia Lighting	PEL4-40MV-EDU-DS1360	LED	CEILING	277	PROVIDE WITH INTEGRAL OCCUPANCY SENSOR
AE	Columbia Lighting	PEL4-40MV-EDU-ELL40-PS1360	LED	CEILING	277	SAME AS TYPE A WITH EMERGENCY BALLAST
X1	Compass	CCR	LED	WALL	277	OR EQUAL
RH	Compass	CUWZ-PC	LED	WALL	277	OR EQUAL
P2	Hubbell	VP-S-48L-110-4K7-2	LED	POLE LIGHT	277	OR EQUAL
P3	Hubbell	VP-S-48L-110-4K7-3	LED	POLE LIGHT	277	OR EQUAL
P4	BEACON	VP-L-96L-220-4K7-4W	LED	POLE LIGHTS	277	OR EQUAL
P4-HS	BEACON	VP-L-96L-220-4K7-8C	LED	POLE LIGHTS	277	OR EQUAL
P5	HUBBELL	VP-S-48L-110-4K7-5QM	LED	POLE LIGHT	277	OR EQUAL
WP1	BEACON	VP-L-96L-280-4K7-4	LED	WALL PACK	277	OR EQUAL

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

SPECIFICATIONS

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



COMcheck Software Version 4.1.1.0

Interior Lighting Compliance Certificate

Project Information

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

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

Owner/Agent:

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

Allowed Interior Lighting Power

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

Proposed Interior Lighting Power

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

Interior Lighting PASSES: Design 85% better than code

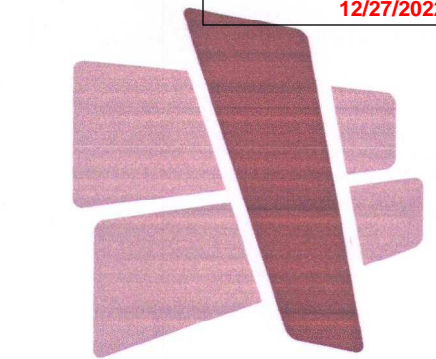
Interior Lighting Compliance Statement

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

Jeremy Hansen V.P. Signature Date 03/16/2022

Project Title: Lee's Summit Logistics Building A Lot 1
Data filename: Untitled.cck

Report date: 03/15/22
Page 1 of 5



CURRAN
ARCHITECTURE

5719 LAWTON LOOP E. DR. #212

INDIANAPOLIS, IN 46216

○ : 317.288.0681

F : 317.288.0753



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210300

E7.00

PANEL: H1 400A MB 277/ 480 V, 3PH, 4W, +GRND. NEW												
CCT	SERVICES	VA	OCP	WIRE	PHASE	WIRE	OCP	VA	SERVICES	VA	OCP	CCT
1	PANEL HA	1200	1000	2#4 AL-1#6S	A	2#4 AL-1#6S	1000	1100	PANEL HC	B	2	2
3		500			B			500		A	4	4
5		500			C			500		B	6	6
7	PANEL HR	1200	1000	2#4 AL-1#6S	A	2#4 AL-1#6S	1000	1100	PANEL HC	B	8	8
9		500			B			500		A	10	10
11		500			C			500		B	12	12
13	PANEL H1A	1200	1000	2#4 AL-1#6S	A	2#4 AL-1#6S	1000	1100	PANEL HC	B	14	14
15		500			B			500		A	16	16
17		500			C			500		B	18	18
19					A					C	20	20
21					B					A	22	22
23					C					B	24	24
25					A					C	26	26
27					B					A	28	28
29					C					B	30	30
31					A					C	32	32
33					B					A	34	34
35					C					B	36	36
37					A					C	38	38
39					B					A	40	40
41					C					B	42	42

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

LOAD SUMMARY
LIGHTING 0 1.25 0 PHASE A 500W
2 RECEPTACLES 2000 NEC 2000 PHASE B 500W
SKITCHEN 0 0.65 0 PHASE C 500W
4 KWAC 0 1 0 LOWEST PHASE PLUS 10% 500W
5 MOTOR CONT 0 1 0 800 1000 PHASE PLUS 10% 1000W
LARGEST MOTOR 0 0.25 0 REBALANCE LOADS 1000W
TOTAL VA 12000 3000 3000 3000
TOTAL AMP 34.6 34.6 34.6 34.6

PANEL: H1A 100A MLO 277/ 480 V, 3PH, 4W, +GRND. NEW												
CCT	SERVICES	VA	OCP	WIRE	PHASE	WIRE	OCP	VA	SERVICES	VA	OCP	CCT
1	WALL PACKS	220	201	2#12-1#10S	A	2#12-1#10S	201	200	WALL PACKS	B	2	2
3	WALL PACKS	220	201	2#12-1#10S	B	2#12-1#10S	201	200	WALL PACKS	C	4	4
5	WALL PACKS	1000	201	2#12-1#10S	A	2#12-1#10S	201	200	WALL PACKS	B	6	6
7	WALL PACKS	500	201	2#12-1#10S	A	2#12-1#10S	201	200	WALL PACKS	B	8	8
9		500			B			500		A	10	10
11		500			C			500		B	12	12
13					A					C	14	14
15					B					A	16	16
17					C					B	18	18
19					A					C	20	20
21					B					A	22	22
23					C					B	24	24
25					A					C	26	26
27					B					A	28	28
29					C					B	30	30
31					A					C	32	32
33					B					A	34	34
35					C					B	36	36
37					A					C	38	38
39					B					A	40	40
41					C					B	42	42

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

LOAD SUMMARY
LIGHTING 0 1.25 0 PHASE A 500W
2 RECEPTACLES 2000 NEC 2000 PHASE B 500W
SKITCHEN 0 0.65 0 PHASE C 500W
4 KWAC 0 1 0 LOWEST PHASE PLUS 10% 500W
5 MOTOR CONT 0 1 0 800 1000 PHASE PLUS 10% 1000W
LARGEST MOTOR 0 0.25 0 REBALANCE LOADS 1000W
TOTAL VA 1000 3000 3000 3000
TOTAL AMP 34.6 34.6 34.6 34.6

PANEL: L1 100 MB 120/ 208 V, 3PH, 4W, +GRND. NEW												
CCT	SERVICES	VA	OCP	WIRE	PHASE	WIRE	OCP	VA	SERVICES	VA	OCP	CCT
1	EXHAUST FAN	200	201	2#12-1#10S	A	2#12-1#10S	201	200	EXHAUST FAN	B	2	2
3	GFCI RECP	200	201	2#12-1#10S	A	2#12-1#10S	201	200	GFCI RECP	B	4	4
5	SPACE	100	201	2#12-1#10S	A	2#12-1#10S	201	200	SPACE	B	6	6
7	SPACE				B				SPACE	A	8	8
9	SPACE				C				SPACE	B	10	10
11	SPACE				A				SPACE	C	12	12
13	SPACE				B				SPACE	A	14	14
15	SPACE				C				SPACE	B	16	16
17	SPACE				A				SPACE	C	18	18
19	SPACE				B				SPACE	A	20	20
21	SPACE				C				SPACE	B	22	22
23	SPACE				A				SPACE	C	24	24
25	SPACE				B				SPACE	A	26	26
27	SPACE				C				SPACE	B	28	28
29	SPACE				A				SPACE	C	30	30
31	SPACE				B				SPACE	A	32	32
33	SPACE				C				SPACE	B	34	34
35	SPACE				A				SPACE	C	36	36
37	SPACE				B				SPACE	A	38	38
39	SPACE				C				SPACE	B	40	40
41	SPACE				A				SPACE	C	42	42

NOTES:
1 NEMA 1 ENCLOSURE
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3

LOAD SUMMARY
LIGHTING 0 1.25 0 PHASE A 500W
2 RECEPTACLES 2000 NEC 2000 PHASE B 500W
SKITCHEN 0 0.65 0 PHASE C 500W
4 KWAC 200 1 200 LOWEST PHASE PLUS 10% 200W
5 MOTOR CONT 0 1 0 800 1000 PHASE PLUS 10% 1000W
LARGEST MOTOR 0 0.25 0 REBALANCE LOADS 1000W
TOTAL VA 600 3000 3000 3000
TOTAL AMP 16.7 34.6 34.6 34.6

PANEL: HA 100A MLO 277/ 480 V, 3PH, 4W, +GRND. NEW PANEL												
CCT	SERVICES	VA	OCP	WIRE	PHASE	WIRE	OCP	VA	SERVICES	VA	OCP	CCT
1	WAREHOUSE LIGHTS	2000	201	2#12-1#10S	A	2#12-1#10S	201	2000	WAREHOUSE LIGHTS	B	2	2
3	WAREHOUSE LIGHTS	2000	201	2#12-1#10S	B	2#12-1#10S	201	2000	WAREHOUSE LIGHTS	C	4	4
5	WAREHOUSE LIGHTS	2000	201	2#12-1#10S	A	2#12-1#10S	201	2000	WAREHOUSE LIGHTS	B	6	6
7	OVERHEAD DOOR	200	201	2#12-1#10S	A	2#12-1#10S	201	200	OVERHEAD DOOR	B	8	8
9		200			B			200		A	10	10
11		200			C			200		B	12	12
13					A					C	14	14
15					B					A	16	16
17					C					B	18	18
19					A					C	20	20
21					B					A	22	22
23					C					B	24	24
25					A					C	26	26
27					B					A	28	28
29					C					B	30	30
31					A					C	32	32
33					B					A	34	34
35					C					B	36	36
37					A					C	38	38
39					B					A	40	40
41					C					B	42	42

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

LOAD SUMMARY
LIGHTING 0 1.25 0 PHASE A 500W
2 RECEPTACLES 2000 NEC 2000 PHASE B 500W
SKITCHEN 0 0.65 0 PHASE C 500W
4 KWAC 2000 1 2000 LOWEST PHASE PLUS 10% 2000W
5 MOTOR CONT 0 1 0 800 1000 PHASE PLUS 10% 1000W
LARGEST MOTOR 0 0.25 0 REBALANCE LOADS 1000W
TOTAL VA 2000 3000 3000 3000
TOTAL AMP 34.6 34.6 34.6 34.6

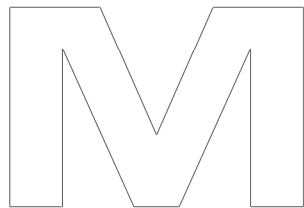
PANEL: LA 100 MB 120/ 208 V, 3PH, 4W, +GRND. NEW PANEL												
CCT	SERVICES	VA	OCP	WIRE	PHASE	WIRE	OCP	VA	SERVICES	VA	OCP	CCT
1	DOCK RECP	800	201	2#12-1#10S	A	2#12-1#10S	201	200	DOCK RECP	B	2	2
3	DOCK RECP	800	201	2#12-1#10S	B	2#12-1#10S	201	200	DOCK RECP	C	4	4
5	DOCK RECP	800	201	2#12-1#10S	A	2#12-1#10S	201	200	DOCK RECP	B	6	6
7	SPACE				A				SPACE	C	8	8
9	SPACE				B				SPACE	A	10	10
11	SPACE				C				SPACE	B	12	12
13	SPACE				A				SPACE	C	14	14
15	SPACE				B				SPACE	A	16	16
17	SPACE				C				SPACE	B	18	18
19	SPACE				A				SPACE	C	20	20
21	SPACE				B				SPACE	A	22	22
23	SPACE				C				SPACE	B	24	24
25	SPACE				A				SPACE	C	26	26
27	SPACE				B				SPACE	A	28	28
29	SPACE				C				SPACE	B	30	30
31	SPACE				A				SPACE	C	32	32
33	SPACE				B				SPACE	A	34	34
35	SPACE				C				SPACE	B	36	36
37	SPACE				A				SPACE	C	38	38
39	SPACE				B				SPACE	A	40	40
41	SPACE				C				SPACE	B	42	42

NOTES:
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LOAD SUMMARY
LIGHTING 0 1.25 0 PHASE A 500W
2 RECEPTACLES 2000 NEC 2000 PHASE B 500W
SKITCHEN 0 0.65 0 PHASE C 500W
4 KWAC 0 1 0 LOWEST PHASE PLUS 10% 500W
5 MOTOR CONT 0 1 0 800 1000 PHASE PLUS 10% 1000W
LARGEST MOTOR 0 0.25 0 REBALANCE LOADS 1000W
TOTAL VA 2000 3000 3000 3000
TOTAL AMP 34.6 34.6 34.6 34.6

PANEL: HB					100A	MLO	277/	480 V, 3PH, 4W+GRND.	NEW PANEL				
CCT	SERVICES	VA	OCP	WIRE	PHASE	WIRE	OCP	VA	SERVICES	CCT			
1	WAREHOUSE LIGHTS	2000	201	2#12-1#10S		2#12-1#10S	201	2000	WAREHOUSE LIGHTS	2			
3	WAREHOUSE LIGHTS	2000	201	2#12-1#10S		2#12-1#10S	201	2000	WAREHOUSE LIGHTS	4			
5	WAREHOUSE LIGHTS	2000	201	2#12-1#10S				2000	WAREHOUSE LIGHTS	6			
7	OVERHEAD DCCR	2000	203	2#12-1#10S				2000	OVERHEAD DCCR	8			
9		200						200		10			
11		200						200		12			
13										14			
15										16			
17										18			
19										20			
21										22			
23										24			
25										26			
28										29			
31										32			
33										34			
37						2#12-1#10S	203	2000	TRANSFORMER	38			
40								800	TRANSFORMER	41			
43								800	TRANSFORMER	44			
NOTES:													
1 NEMA 1 INCLUDES													
2 PROVIDE BOLT ON BREAKERS													
3													
LOAD SUMMARY					CONN	NEC	DEN	LOAD BALANCE PER PHASE					
1L RMT BND					28075	1.25	30787.5	PHASE A					
2L RMT CABLES					2800	NEC	2800	PHASE B					
1X10 CHEN					0	0.85	0	PHASE C					
4X10AC					0	1	0	UNBAL PHASE PLUS 10%					
ELECTRIC					0	1	0	1- 10%					
LARGEST MOTOR					0	0.25	0	REBALANCE LOADS					
TOTAL VA					18975		30787.5						

FIRE PROTECTION PLANS



F. E. MORAN, INC. FIRE PROTECTION
18815 COLLEGE BLVD.
LENEXA, KS 66219
(217) 356-0700 (217) 356-0777 FAX

MISSOURI COA: E-2022012018

SCOPE OF WORK

SCOPE OF WORK:
** FURNISH & INSTALL (11) NEW WET PIPE SPRINKLER SYSTEM FOR THE NEW BUILDING.
** FURNISH & INSTALL A NEW FIRE PUMP AND ACCESSORIES
** FIRE PUMP ROOM POINT OF CONNECTION (START OF CONTRACT): 10" FLANGE, 12" ABOVE THE FINISHED FLOOR IN THE FIRE PUMP ROOM.
** FEED RISER POINT OF CONNECTION (START OF CONTRACT): 8" FLANGE, 12" ABOVE THE FINISHED FLOOR IN THE FIRE PUMP ROOM. TWO LOCATED ON EACH END OF THE BUILDING AND ONE ON EACH SIDE.
** INSTALL (18) 2 1/2" HOSE VALVES LOCATED AT MAN DOORS AND FED FROM ADJACENT SYSTEMS

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

CODE INFORMATION

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

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

GENERAL REQUIREMENTS

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

VALVES

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

PIPE HANGERS

** 2 1/2"-6" HANGER RINGS ARE TO BE ADJUSTABLE SWIVEL RINGS, ZINC PLATED, MANUFACTURED TO ANS/MSS SP-69 STANDARDS.
** 2 1/2"-6" CLEVIS HANGERS ARE TO BE ADJUSTABLE CLEVIS RINGS, PLAIN, MANUFACTURED TO ANS/MSS SP-69 STANDARDS.
** HANGERS AND SEISMIC BRACING ARE TO BE INSTALLED PER NFPA 13 REQUIREMENTS.
** HANGER ROD SIZES AND LOCATIONS ARE TO BE AS REQUIRED BY NFPA 13.

DESIGN CRITERIA - LIGHT HAZARD

SPRINKLER SYSTEM DESIGN CRITERIA - LIGHT HAZARD AREA/DENSITY (WET & SINGLE INTERLOCKED PREACTION SYSTEMS):
THE NEW SYSTEM HAS BEEN DESIGNED WITH A DESIGN DENSITY OF .10 GPM/S.F. OVER THE MOST REMOTE AND DEMANDING DESIGN AREA OF 1500 S.F. WITH 225 S.F. (15') MAXIMUM SPRINKLER HEAD SPACING AND 100 GPM OUTSIDE HOSE ALLOWANCE. WHERE ROOF OR CEILING SLOPES EXCEED A PITCH OF 2:12, THE DESIGN AREA HAS BEEN INCREASED IN SIZE BY UP TO 1950 S.F. THE DESIGN AREA MAY BE REDUCED IN SIZE IN ACCORDANCE WITH NFPA 13 DUE TO THE USE OF QUICK RESPONSE SPRINKLERS BUT SHALL NEVER CONTAIN LESS THAN 5 SPRINKLERS. TOTAL SYSTEM SIZE SHALL NOT EXCEED 52,000 S.F.

WHERE EXTENDED COVERAGE SPRINKLERS ARE UTILIZED, THE MINIMUM DESIGN AREA SHALL BE 5 SPRINKLERS WITH 400 S.F. (20') MAXIMUM SPRINKLER HEAD SPACING. EXTENDED COVERAGE SPRINKLERS SHALL NOT BE USED WHERE ROOF OR CEILING SLOPES EXCEED A PITCH OF 2:12. WHERE SPECIFICALLY LISTED FOR SUCH USE, EXTENDED COVERAGE SPRINKLERS MAY BE USED FOR ROOF OR CEILING SLOPES UP TO A 4:12 PITCH.

WHEN A REDUCTION IN THE DESIGN AREA IS NOT USED, SPRINKLER DISCHARGE IN SMALL ROOMS SUCH AS CLOSETS AND BATHROOMS CONTAINING A SINGLE SPRINKLER MAY BE OMITTED FROM THE HYDRAULIC CALCULATIONS.

DRAWING SYMBOLS	
PIPING CENTERLINES	
★ 0" TS	TO TOP OF STEEL OR ROOF DECK
★ 0" TS	TO FLOOR
—	HANGER LOCATION
—	HYDRAULIC NODE
—	ELECTRIC ALARM BELL

WET SYSTEM PIPE & FITTINGS

WET-PIPE SPRINKLER SYSTEM BLACK PIPE:
** 1" LINE PIPING SHALL BE BLACK STEEL SCH. 40 PIPE, MANUFACTURED TO ASTM A53 OR A795 STANDARDS.
** 2 1/2" LINE PIPING SHALL BE BLACK STEEL SCH. 7 PIPE, MANUFACTURED TO ASTM A795 STANDARDS.

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

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

** 2 1/2"-8" MAIN PIPE BRANCH OUTLETS TO BE WELDED MANUFACTURED TO ASTM A53 & ANSI B1.20.1 STANDARDS.
** 2 1/2"-8" MAIN PIPE FITTINGS SHALL BE STANDARD GROOVED DUCTILE IRON, MANUF. TO ASTM A536 STANDARDS.
2 1/2"-8" MAIN PIPE FITTINGS SHALL BE STANDARD GROOVED STEEL, MANUF. TO ASTM A536/A53 STANDARDS.

DESIGN CRITERIA - ESFR

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

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

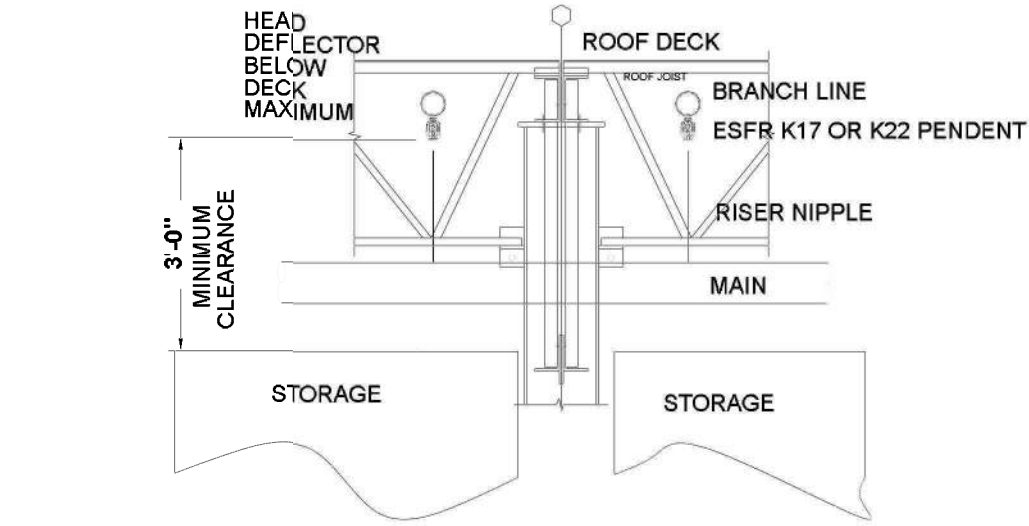
SPRINKLER SYSTEM DESIGN CRITERIA (ESFR)-PALLETIZED/SOLID-PILE/RACK STORAGE:

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

SYSTEMS SHALL BE WET ONLY.

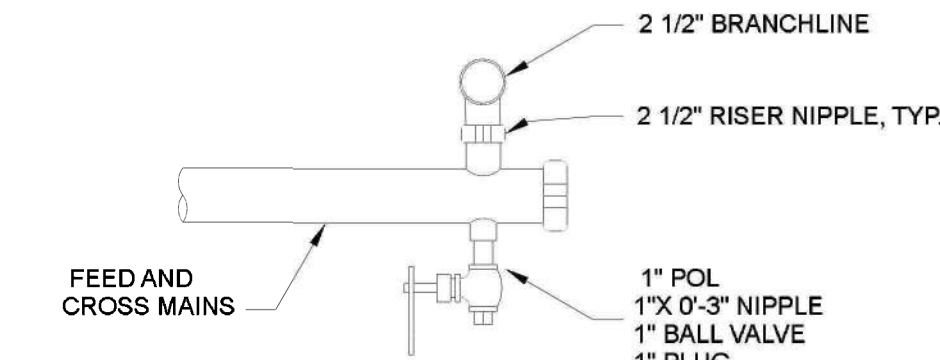
ROOF OR CEILING SLOPES SHALL NOT EXCEED A PITCH OF 2:12.

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



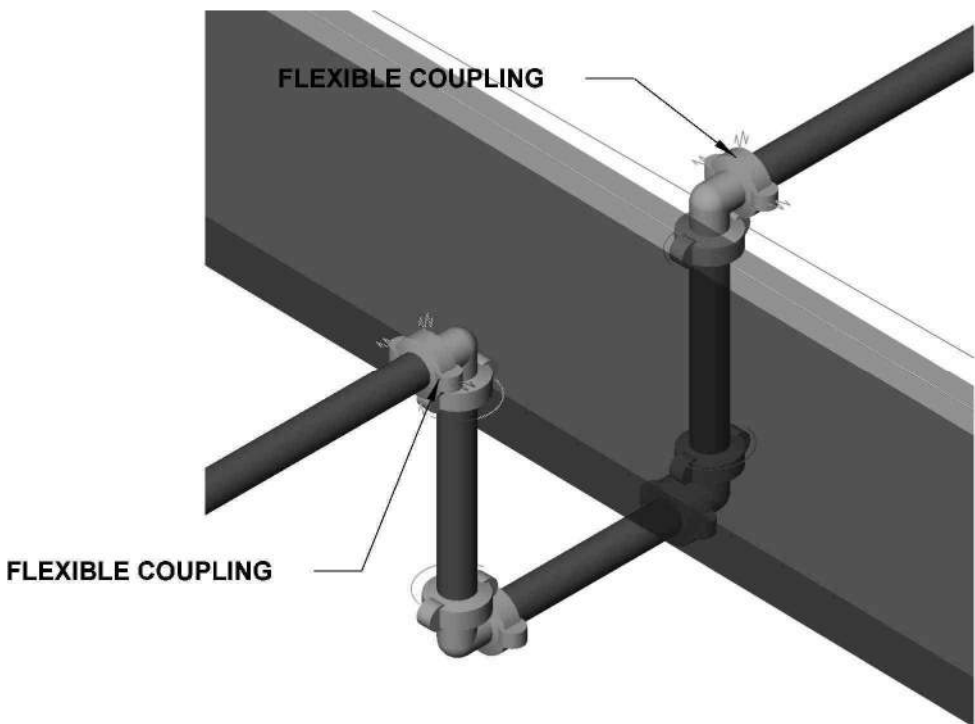
STORAGE CLEARANCE

N.T.S.



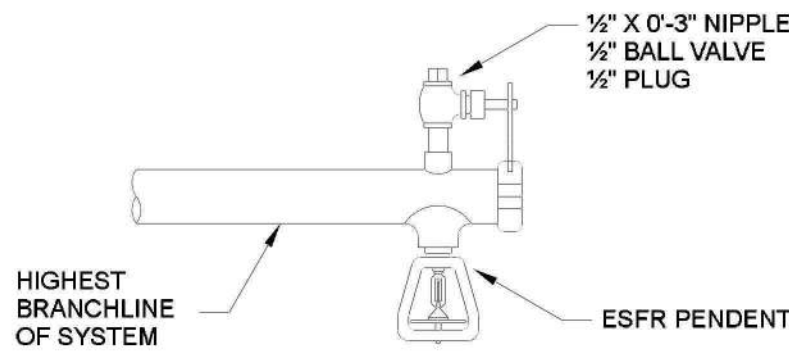
TYPICAL DRAIN DETAIL

N.T.S.



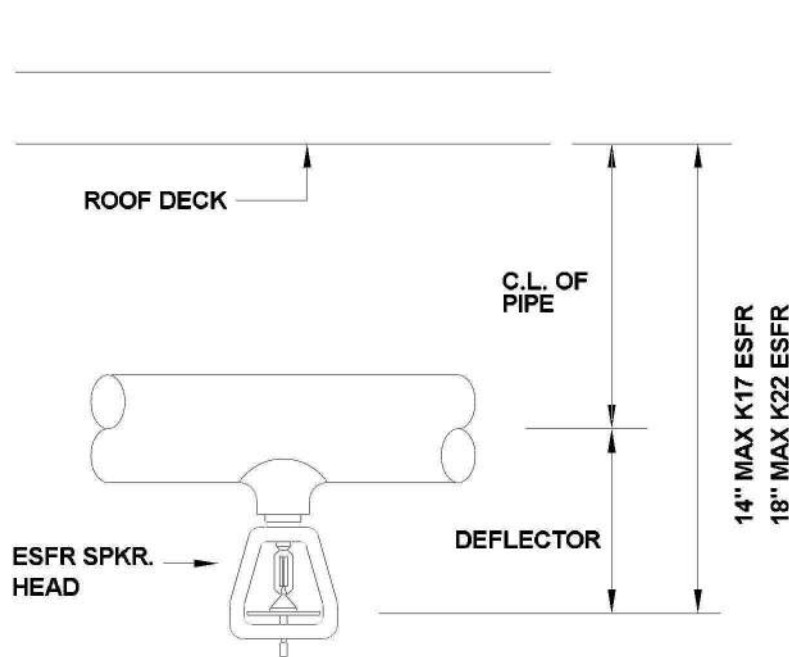
TYPICAL LINE AT EXPANSION JOINT

N.T.S.



MANUAL AIR VENT DETAIL

N.T.S.



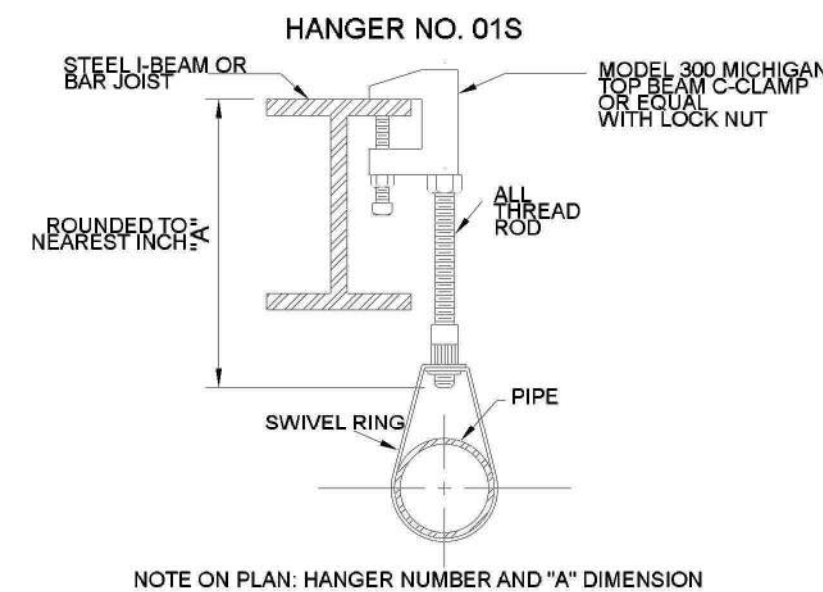
ESFR PENDENT DETAIL

N.T.S.

HANGER INSTALLATION REQUIREMENTS								
MAXIMUM DISTANCE BETWEEN HANGERS								
NOMINAL PIPE SIZE	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
BLAZEMASTER-OPV-G	5'-6"	6'-0"	6'-6"	7'-0"	8'-0"	9'-0"	10'-0"	N/A
THREADED LIGHTWALL	N/A	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"	N/A
STEEL PIPE (7/10/40)	N/A	12'-0"	12'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"

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

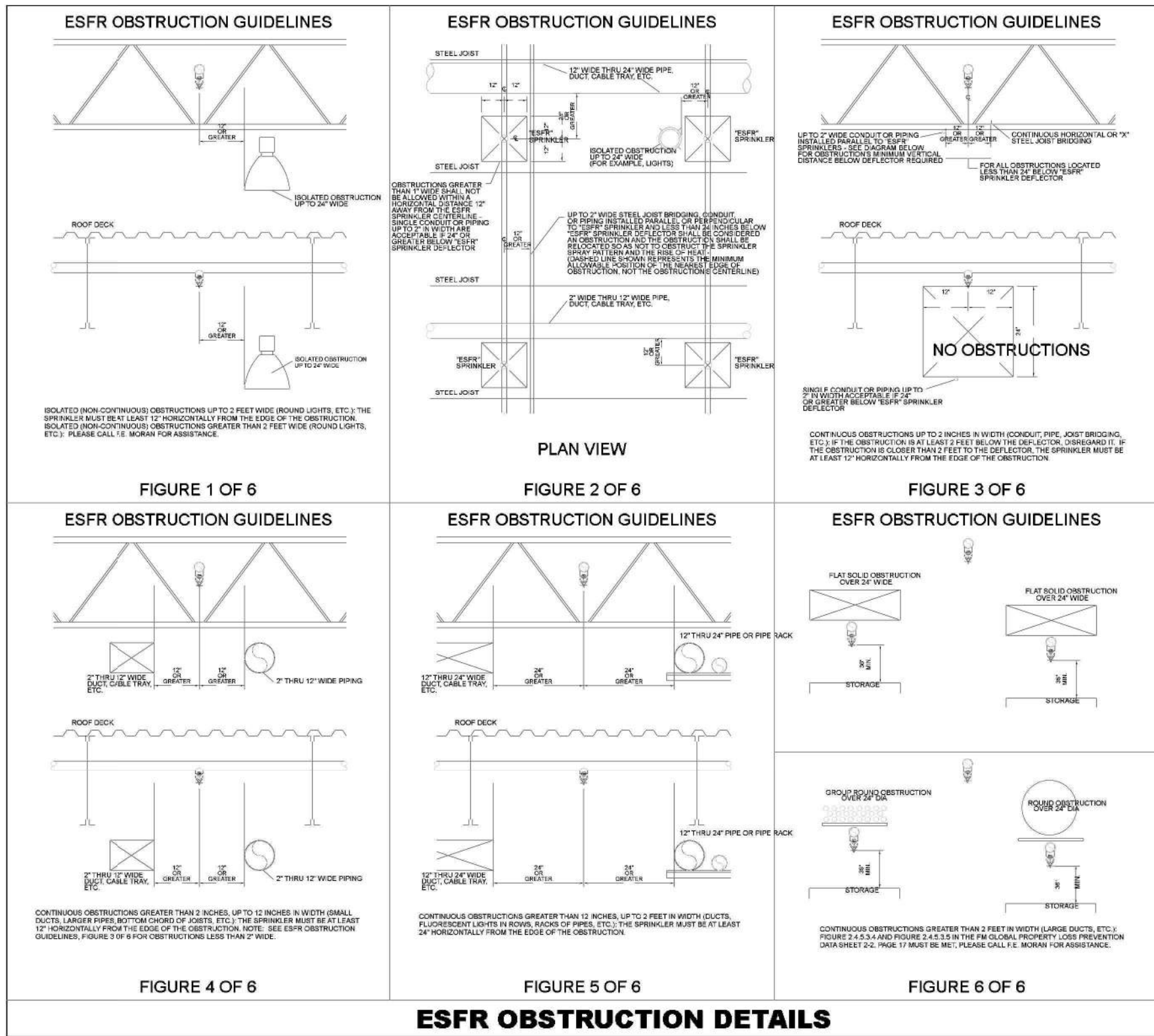
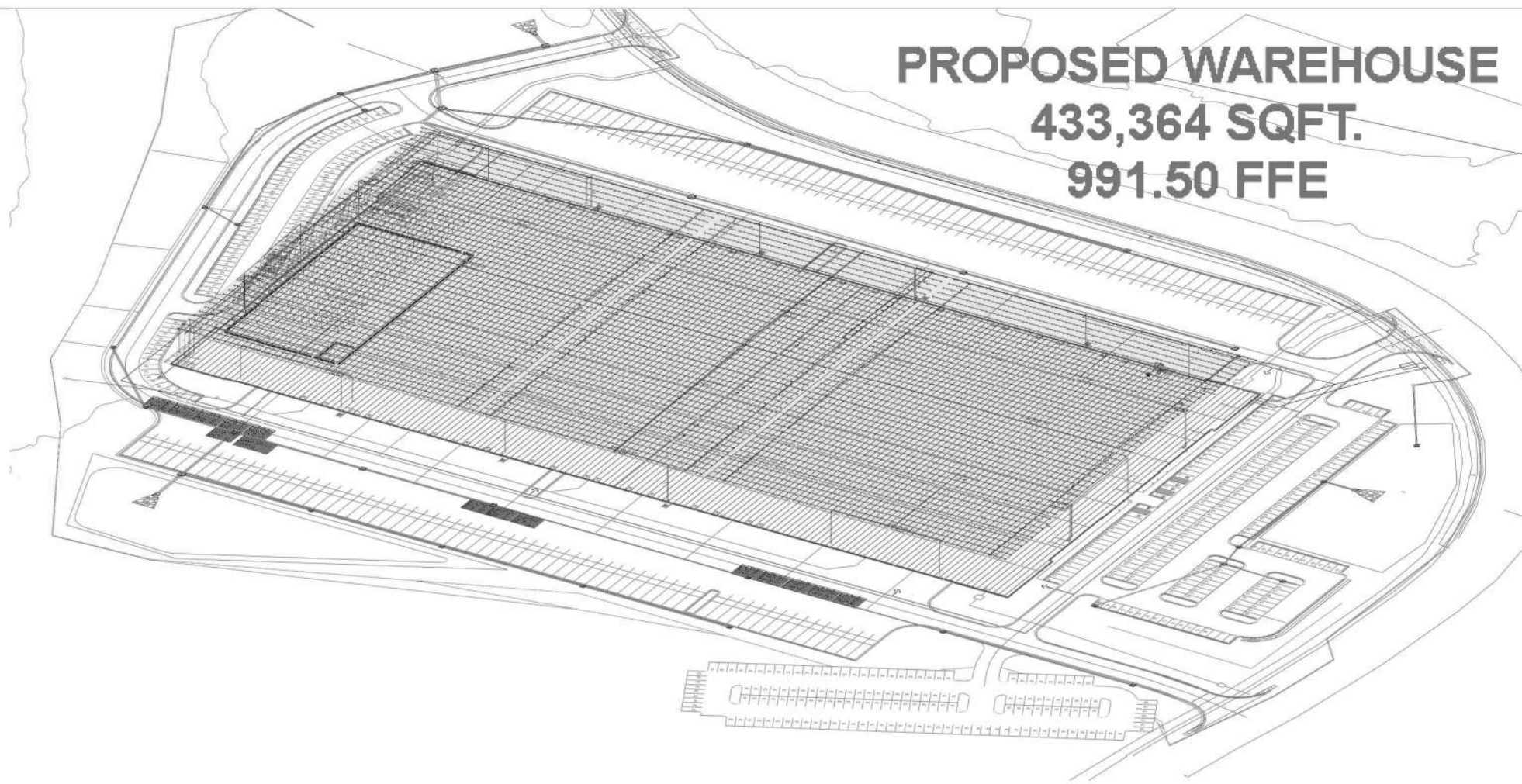
THE CUMULATIVE HORIZONTAL LENGTH OF AN UNSUPPORTED ARMOR TO A SPRINKLER, SPRINKLER DROP, OR SPRIG-UP SHALL NOT EXCEED 24"



NOTE ON PLAN: HANGER NUMBER AND "A" DIMENSION

TOP BEAM C-CLAMP DETAIL

N.T.S.



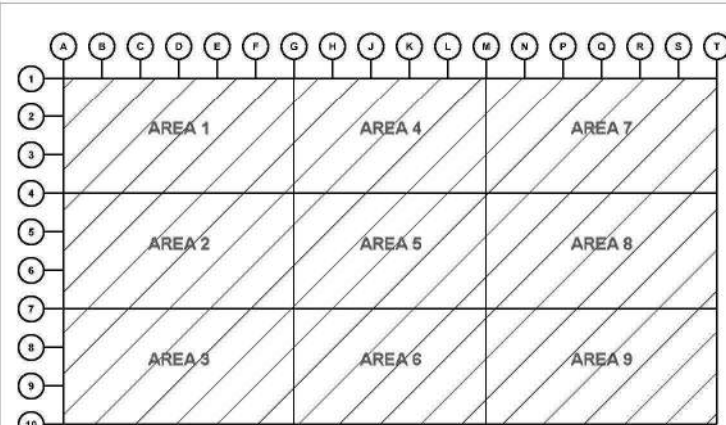
ESFR OBSTRUCTION DETAILS

DRAWING INDEX

FP0-0- SYSTEM NOTES
FP1-0 - HYDRAULIC SITE PLAN
FP2-0 - OVERHEAD PIPING PLAN
FP2.1.1 - AREA 1: SYSTEMS 1-2
FP2.1.2 - AREA 1: SYSTEMS 1-2 (CONT.)
FP2.2.1 - AREA 2: SYSTEMS 2-3
FP2.2.2 - AREA 2: SYSTEMS 2-3 (CONT.)
FP2.3.1 - AREA 3: SYSTEMS 3-4
FP2.3.2 - AREA 3: SYSTEMS 3-4 (CONT.)
FP2.4 - AREA 4: SYSTEM 05
FP2.5 - AREA 5: SYSTEM 06
FP2.6 - AREA 6: SYSTEM 07
FP2.7.1 - AREA 7: SYSTEMS 08-09
FP2.7.2 - AREA 7: SYSTEMS 08-09 (CONT.)
FP2.8.1 - AREA 8: SYSTEMS 09-10
FP2.8.2 - AREA 8: SYSTEM 09-10 (CONT.)
FP2.9.1 - AREA 9: SYSTEMS 10-11
FP2.9.2 - AREA 9: SYSTEMS 10-11 (CONT.)
FP3-0- FIRE PUMP & RISER DETAIL



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



KEY PLAN

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



CURRAN
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PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS

BUILDING A LOT I

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

ISSUE DATES

PERMIT SET 02.18.22

TENANT IMPROVEMENT 09.07.22

210300

FP0.0

SYSTEM NOTES



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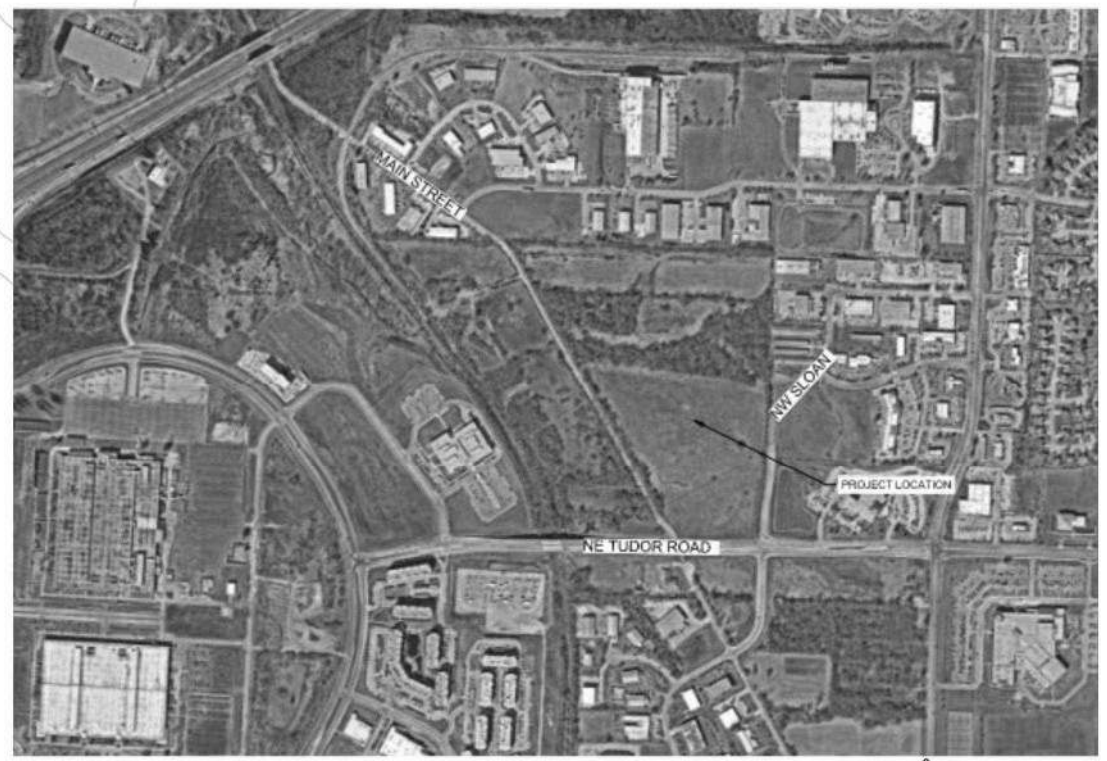
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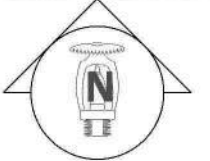
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210300
FP1.0
HYDRAULIC SITE PLAN



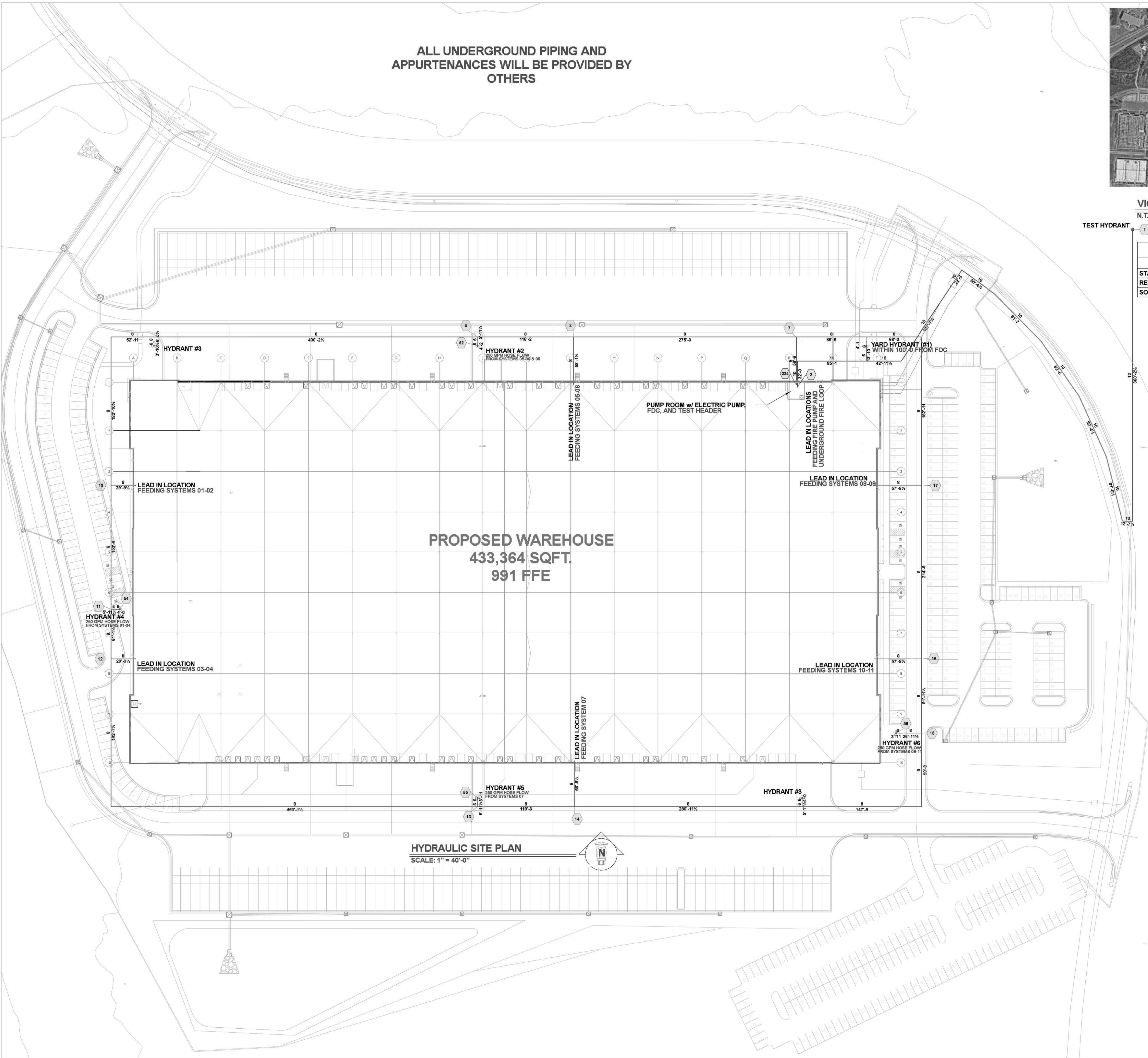
VICINITY SITE MAP

N.T.S.



TEST HYDRANT

WATER FLOW TEST DATA	
DATE	03.31.2022
STATIC PRESSURE	97 PSI (980 ELEV.)
RESIDUAL PRESSURE	88 PSI @ 1900 GPM
SOURCE INFO	LEE'S SUMMIT WATER UTILITIES

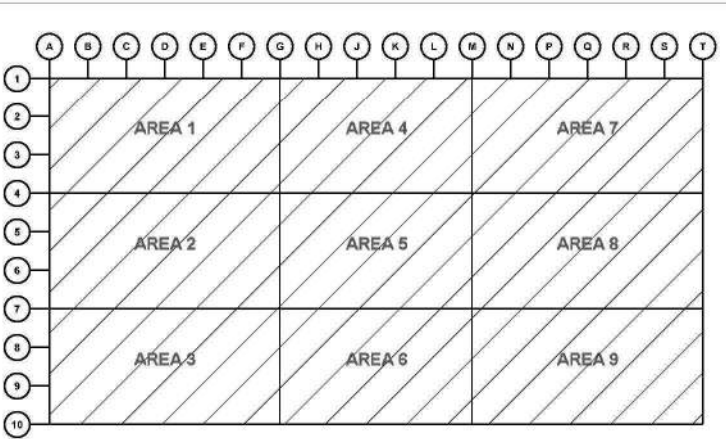
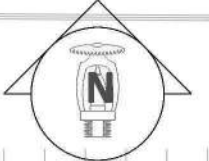


ALL UNDERGROUND PIPING AND
APPURTENANCES WILL BE PROVIDED BY
OTHERS

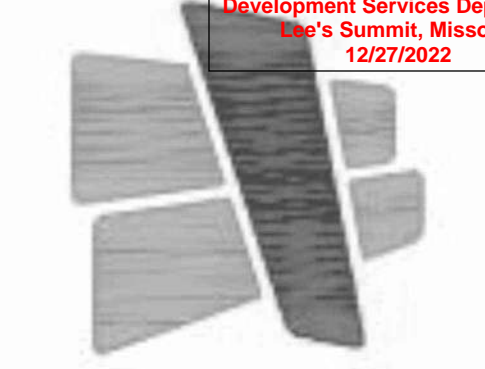
PROPOSED WAREHOUSE
433,364 SQFT.
991 FFE

HYDRAULIC SITE PLAN

SCALE: 1" = 40'-0"



KEY PLAN



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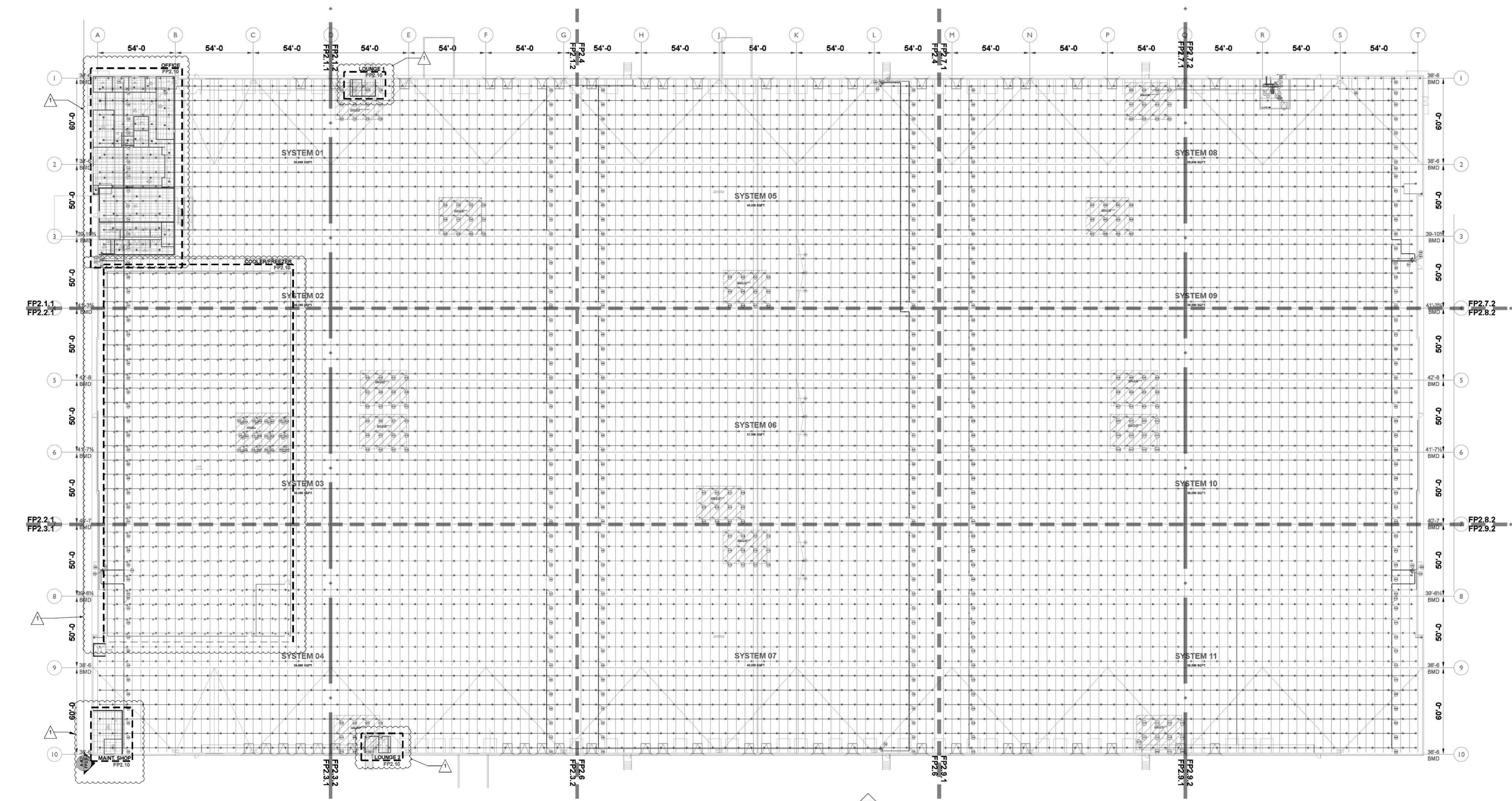
LEE'S SUMMIT LOGISTICS
BUILDING A LOT I
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ISSUE DATES	
PERMIT SET	02.18.22
TENANT IMPROVEMENT	09.07.22

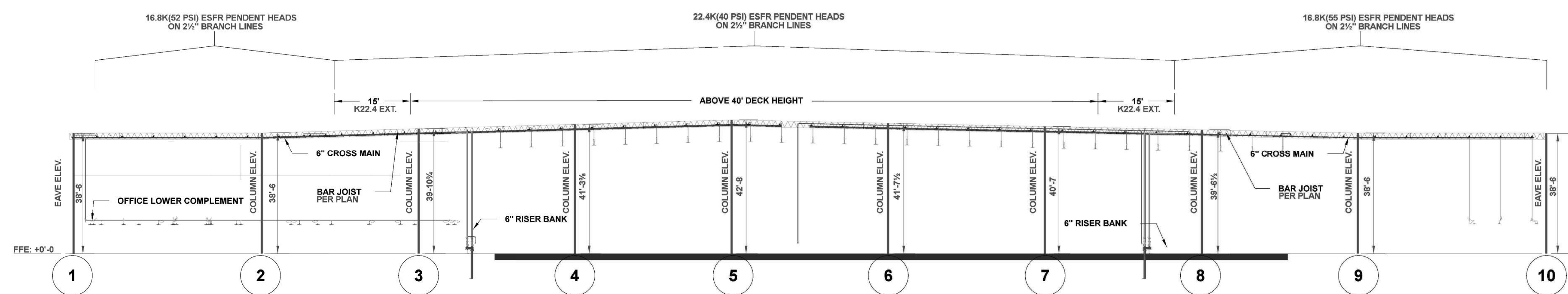
210300

FP2.0

OVERHEAD PIPING
LAYOUT



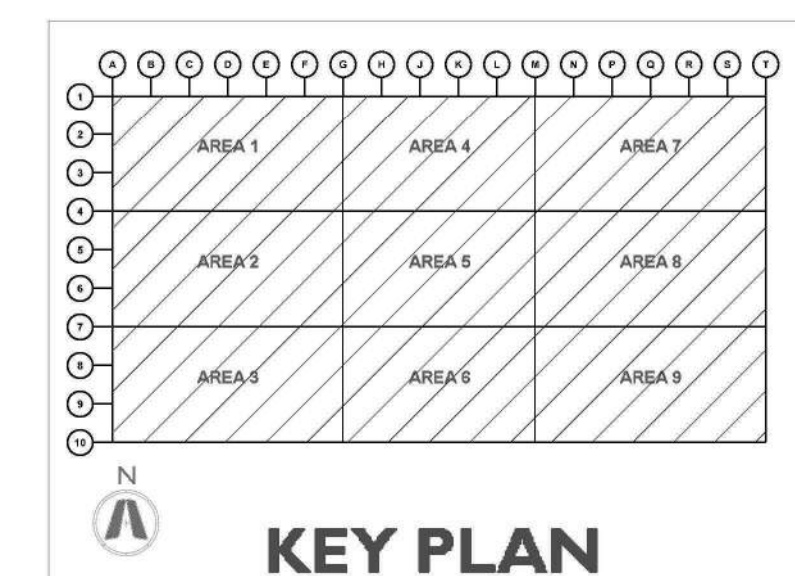
OVERHEAD PIPING
SCALE: 1" = 30'-0"



WALL VIEW (SECTION A-A)
SCALE: 1/16" = 1'-0"

Sprinkler Legend									
SYMBOL	QUANTITY	MANUFACTURER	SIN	MODEL	K-FACTOR	TYPE	SIZE	RESPONSE	FINISH
▲	2054	VICTAULIC	V4702	FL-QUISTESFR	16.8	PENDENT	1"	FAST	BRASS
●	4	VICTAULIC	V3406	V34	8	PENDENT	1"	QUICK	BRASS
●	2754	VICTAULIC	V3428	ESFR	22.4	PENDENT	1"	FAST	BRASS
●	48	VIKING	VK600	MICROPAST	8.6	PENDENT	1"	QUICK	CHROME
●	6	VIKING	VK3021	ESFR	8.6	PENDENT	1"	QUICK	CHROME
●	368	VIKING	VK504	ESFR DRY	16.8	PENDENT	1"	QUICK	BRASS
TOTAL = 5234									

**JOIST BRIDGING ROWS CANNOT BE ERECTED WITHIN OF 1'-6"
OF ANY SURROUNDING ESFR BRANCH LINE CENTERLINE



KEY PLAN



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ARCHITECTURE

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PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS

BUILDING A LOT I

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LEE'S SUMMIT, MO 64086

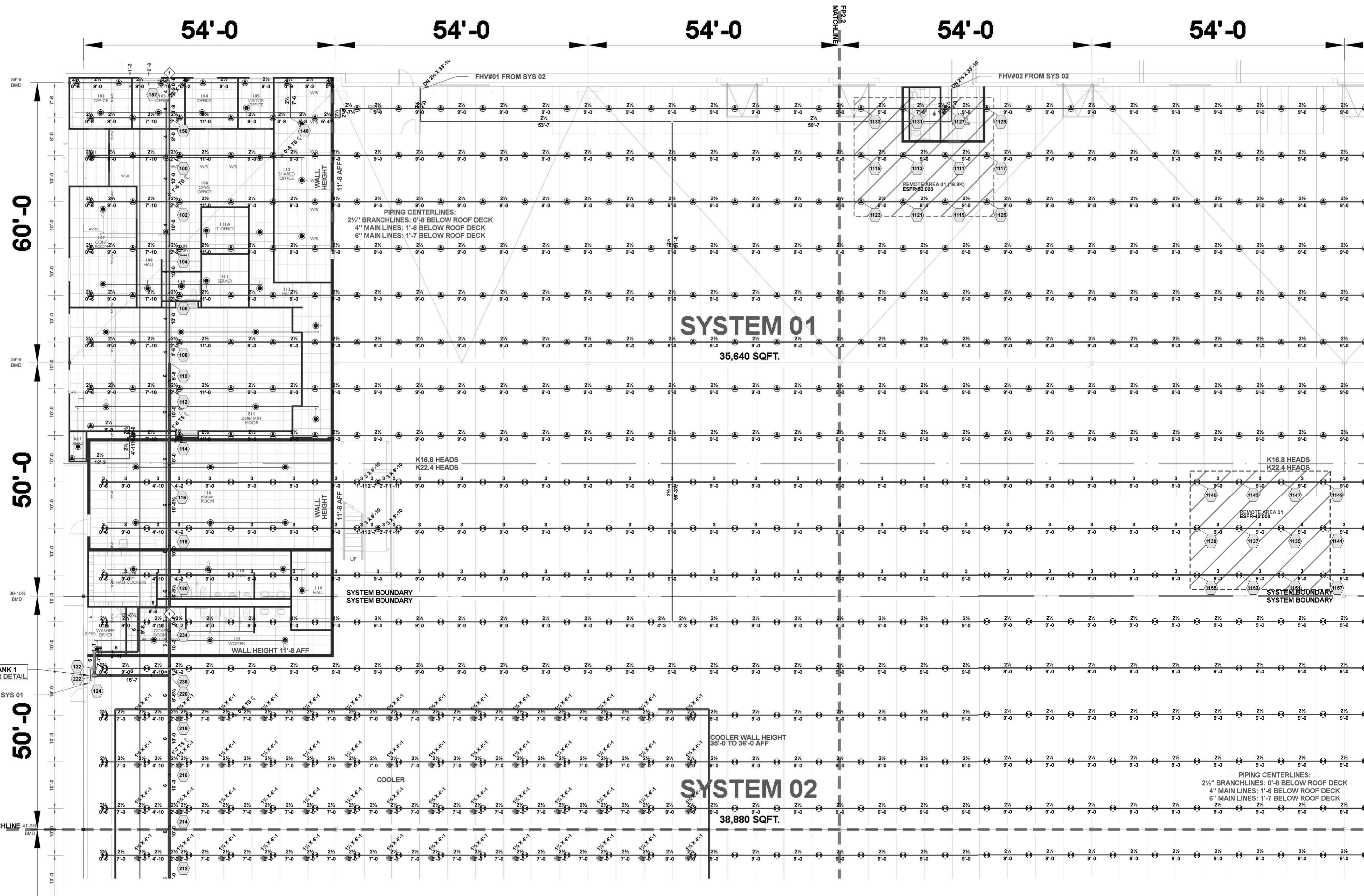
ISSUE DATES

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FP2.1.1

AREA 1: SYSTEMS
01-02

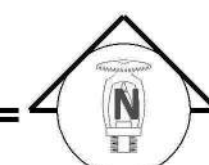


Hydraulic Information	
Remote Area 01 (K16.8)	
OCCUPANCY CLASSIFICATION	ESFR
MIN. END HEAD PRESSURE	52.000 (ESFR)
TOTAL HOSE STREAMS	250.00
TOTAL HEADS FLOWING	12
K-FACTOR	16.8
TOTAL WATER REQUIRED	1711.60
TOTAL PRESSURE REQUIRED	75.095
BASE OF RISER (GPM)	1711.60
BASE OF RISER (PSI)	75.095
SAFETY MARGIN (PSI)	+14.486 (16.2%)

Hydraulic Information	
Remote Area 01	
OCCUPANCY CLASSIFICATION	ESFR
MIN. END HEAD PRESSURE	40.000 (ESFR)
TOTAL HOSE STREAMS	250.00
TOTAL HEADS FLOWING	12
K-FACTOR	22.4
TOTAL WATER REQUIRED	1959.70
TOTAL PRESSURE REQUIRED	68.043
BASE OF RISER (GPM)	1959.70
BASE OF RISER (PSI)	68.043
SAFETY MARGIN (PSI)	+19.427 (22.2%)

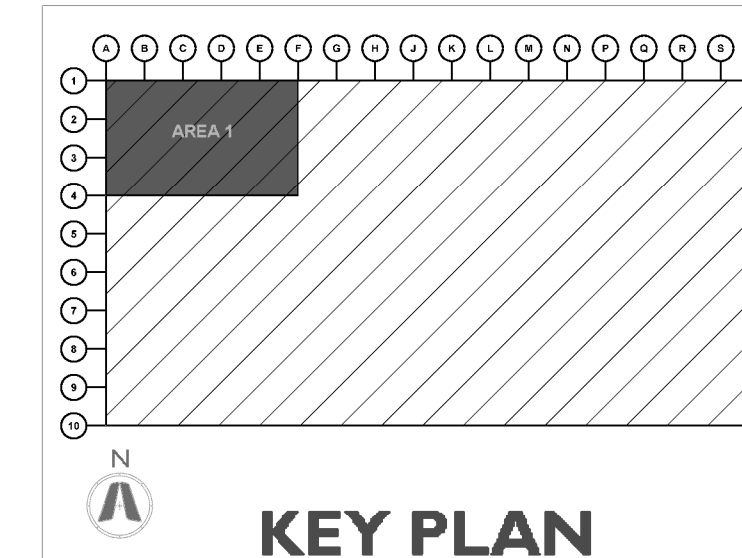
AREA 1: SYSTEMS 01-02

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



Sprinkler Legend										
SYMBOL	QUANTITY	MANUFACTURER	SIN	MODEL	K-FACTOR	TYPE	SIZE	RESPONSE	FINISH	TEMPERATURE
	2054	VICTAULIC	V4702	FL-QR/ST/ESFR	16.8	PENDENT	3/4"	FAST	BRASS	200°F
	4	VICTAULIC	V3406	V34	8	PENDENT	3/4"	QUICK	BRASS	200°F
	2754	VICTAULIC	V3428	ESFR	22.4	PENDENT	1"	FAST	BRASS	200°F
	48	VIKING	VK600	MICROFAST	5.6	PENDENT	1/2"	QUICK	CHROME	135°F
	6	VIKING	VK3021		5.6	PENDENT	1/2"	QUICK	CHROME	135°F
	388	VIKING	VK504	ESFR DRY	16.8	PENDENT	3/4"	QUICK	BRASS	205°F
TOTAL = 5234										

**JOIST BRIDGING ROWS CANNOT BE ERECTED WITHIN OF 1'-6"
OF ANY SURROUNDING ESFR BRANCH LINE CENTERLINE





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PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS
BUILDING A LOT I
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LEE'S SUMMIT, MO 64086

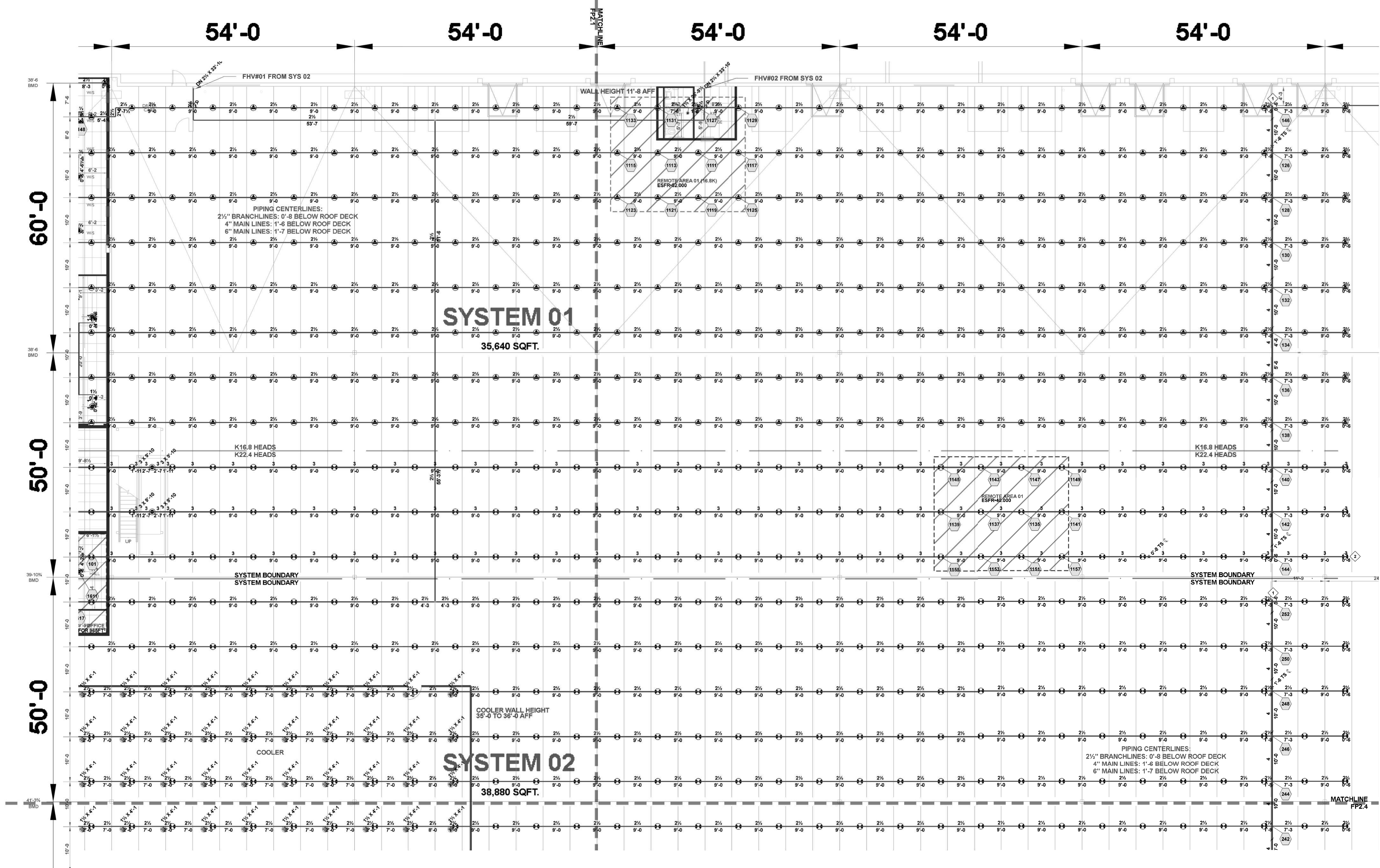
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TENANT IMPROVEMENT 09.07.22

210300

FP2.1.2

AREA 1 (CONT.):
SYSTEMS 01-02



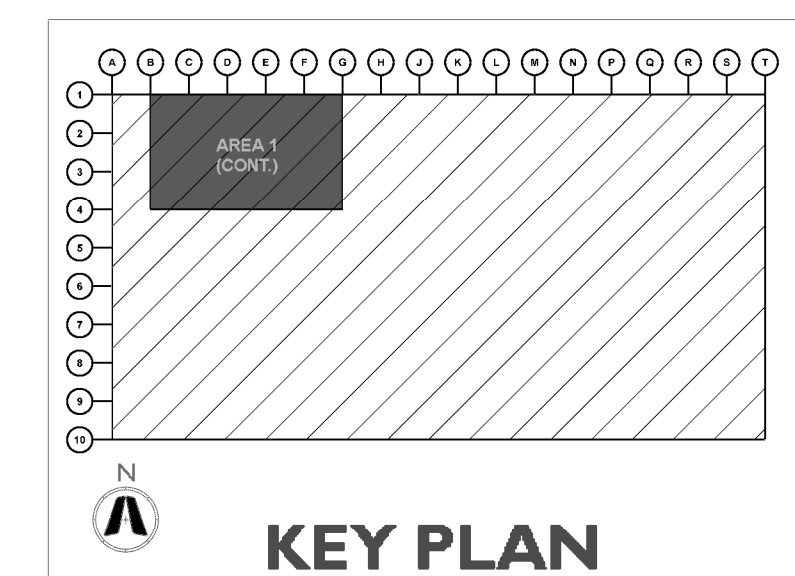
Hydraulic Information		Hydraulic Information	
Remote Area 01 (K16.8)		Remote Area 01	
OCCUPANCY CLASSIFICATION	ESFR	OCCUPANCY CLASSIFICATION	ESFR
MIN. END HEAD PRESSURE	52.000 (ESFR)	MIN. END HEAD PRESSURE	40.000 (ESFR)
TOTAL HOSE STREAMS	250.00	TOTAL HOSE STREAMS	250.00
TOTAL HEADS FLOWING	12	TOTAL HEADS FLOWING	12
K-FACTOR	16.8	K-FACTOR	22.4
TOTAL WATER REQUIRED	1711.60	TOTAL WATER REQUIRED	1959.70
TOTAL PRESSURE REQUIRED	75.095	TOTAL PRESSURE REQUIRED	68.043
BASE OF RISER (GPM)	1711.60	BASE OF RISER (GPM)	1959.70
BASE OF RISER (PSI)	75.095	BASE OF RISER (PSI)	68.043
SAFETY MARGIN (PSI)	+14.486 (16.2%)	SAFETY MARGIN (PSI)	+19.427 (22.2%)

Sprinkler Legend										
SYMBOL	QUANTITY	MANUFACTURER	SIN	MODEL	K-FACTOR	TYPE	SIZE	RESPONSE	FINISH	TEMPERATURE
▲	2054	VICTAULIC	V4702	FL-QR/ST/ESFR	16.8	PENDENT	3/4"	FAST	BRASS	200°F
⊗	4	VICTAULIC	V3406	V34	8	PENDENT	3/4"	QUICK	BRASS	200°F
⊗	2754	VICTAULIC	V3428	ESFR	22.4	PENDENT	1"	FAST	BRASS	200°F
●	48	VIKING	VK600	MICROFAST	5.6	PENDENT	1/2"	QUICK	CHROME	135°F
⊗	6	VIKING	VK3021		5.6	PENDENT	1/2"	QUICK	CHROME	135°F
◆	368	VIKING	VK504	ESFR DRY	16.8	PENDENT	3/4"	QUICK	BRASS	205°F
TOTAL = 5234										

AREA 1 (CONT.): SYSTEMS 01-02
SCALE: 3/32" = 1'-0"

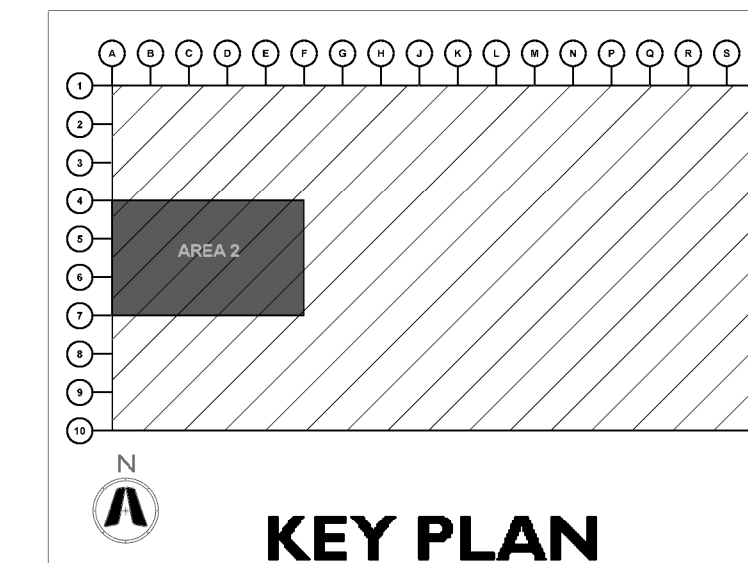
**JOIST BRIDGING ROWS CANNOT BE ERECTED WITHIN OF 1'-6"
OF ANY SURROUNDING ESFR BRANCH LINE CENTERLINE

◆ - AUXILIARY DRAIN
SEE FP0.0 FOR DETAIL
◆ - AIR VENT
SEE FP0.0 FOR DETAIL





Hydraulic Information	
Remote Area 03	
OCCUPANCY CLASSIFICATION	ESFR
MIN. END HEAD PRESSURE	40.000 (ESFR)
TOTAL HOSE STREAMS	250.00
TOTAL HEADS FLOWING	12
K-FACTOR	22.4
TOTAL WATER REQUIRED	1958.59
TOTAL PRESSURE REQUIRED	79.726
BASE OF RISER (GPM)	1958.59
BASE OF RISER (PSI)	79.726
SAFETY MARGIN (PSI)	+7.754 (8.9%)

[illegible]



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PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS
BUILDING A LOT I

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LEE'S SUMMIT, MO 64086

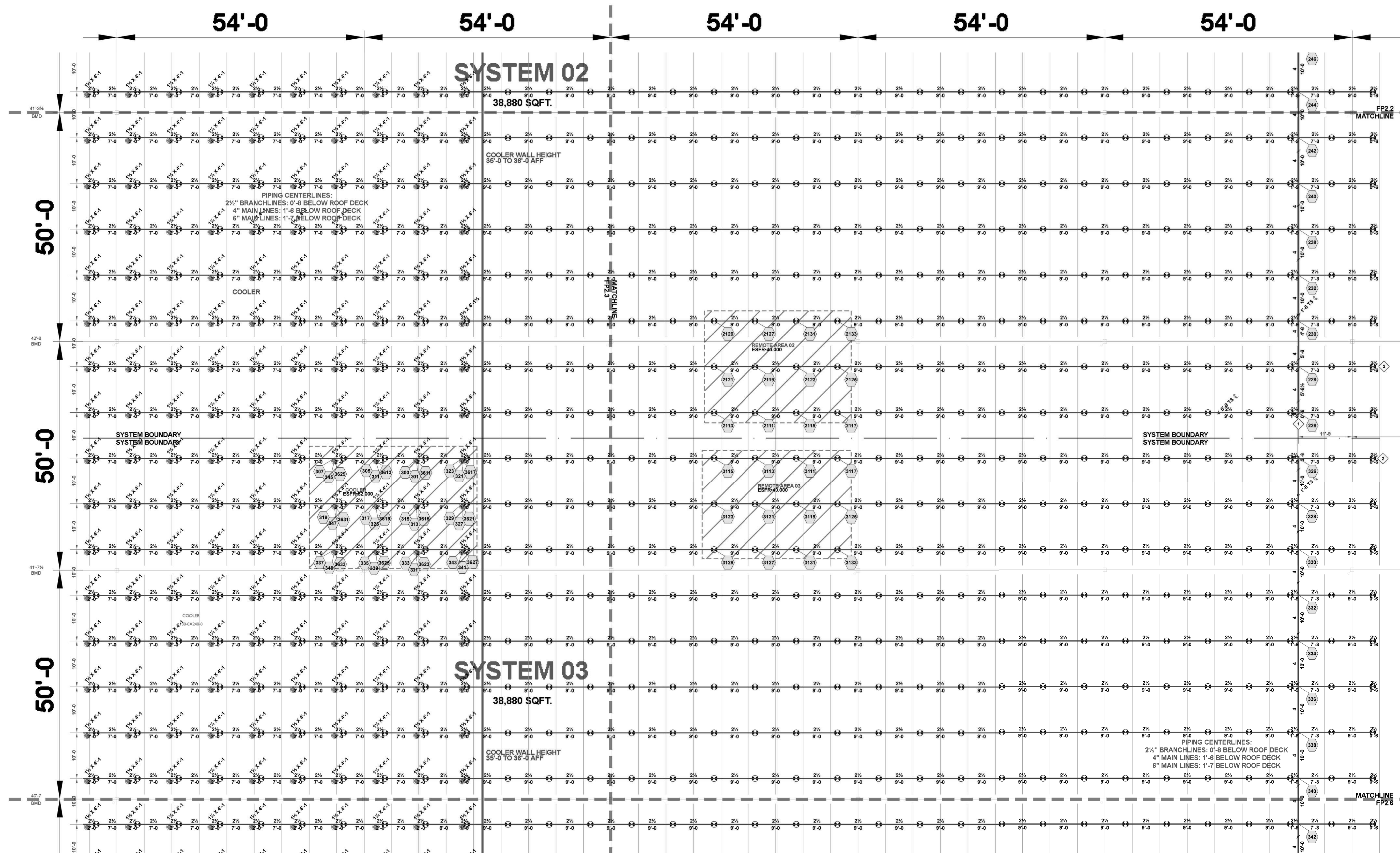
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FP2.2.2

AREA 2(CONT):
SYSTEMS 02-03



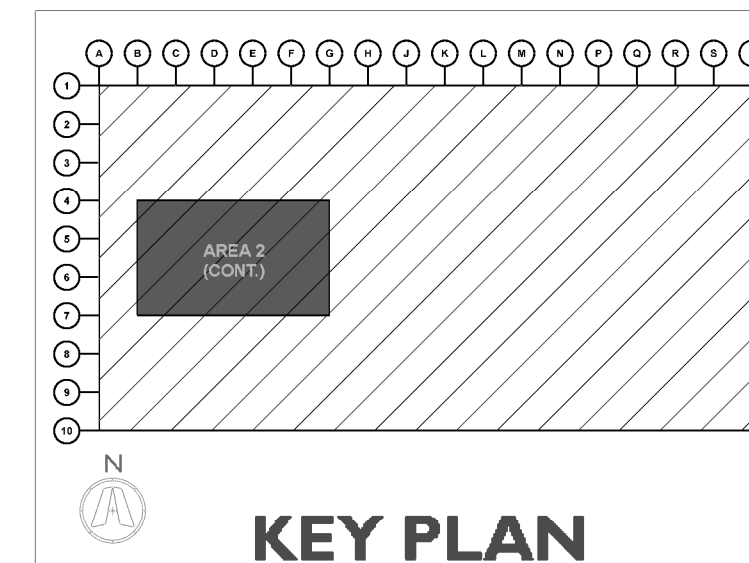
Hydraulic Information	
Remote Area 02	
OCCUPANCY CLASSIFICATION	ESFR
MIN. END HEAD PRESSURE	40.000 (ESFR)
TOTAL HOSE STREAMS	250.00
TOTAL HEADS FLOWING	12
K-FACTOR	22.4
TOTAL WATER REQUIRED	1956.70
TOTAL PRESSURE REQUIRED	78.341
BASE OF RISER (GPM)	1956.70
BASE OF RISER (PSI)	78.341
SAFETY MARGIN (PSI)	+9.156 (10.5%)

Hydraulic Information	
Remote Area 03	
OCCUPANCY CLASSIFICATION	ESFR
MIN. END HEAD PRESSURE	40.000 (ESFR)
TOTAL HOSE STREAMS	250.00
TOTAL HEADS FLOWING	12
K-FACTOR	22.4
TOTAL WATER REQUIRED	1958.59
TOTAL PRESSURE REQUIRED	79.726
BASE OF RISER (GPM)	1958.59
BASE OF RISER (PSI)	79.726
SAFETY MARGIN (PSI)	+7.754 (8.9%)

AREA 2(CONT): SYSTEMS 02-03
SCALE: 3/32" = 1'-0"

Sprinkler Legend										
SYMBOL	QUANTITY	MANUFACTURER	SIN	MODEL	K-FACTOR	TYPE	SIZE	RESPONSE	FINISH	TEMPERATURE
⊗	2054	VICTAULIC	V4702	FL-QR/ST/ESFR	16.8	PENDENT	3/4	FAST	BRASS	200°F
⊗	4	VICTAULIC	V3406	V34	8	PENDENT	3/4	QUICK	BRASS	200°F
⊗	2754	VICTAULIC	V3428	ESFR	22.4	PENDENT	1	FAST	BRASS	200°F
⊗	48	VIKING	VK600	MICROFAST	5.6	PENDENT	1/2	QUICK	CHROME	135°F
⊗	6	VIKING	VK3021	ESFR DRY	5.6	PENDENT	1/2	QUICK	CHROME	135°F
⊗	368	VIKING	VK504	ESFR DRY	16.8	PENDENT	3/4	QUICK	BRASS	205°F
TOTAL = 5234										

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PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS
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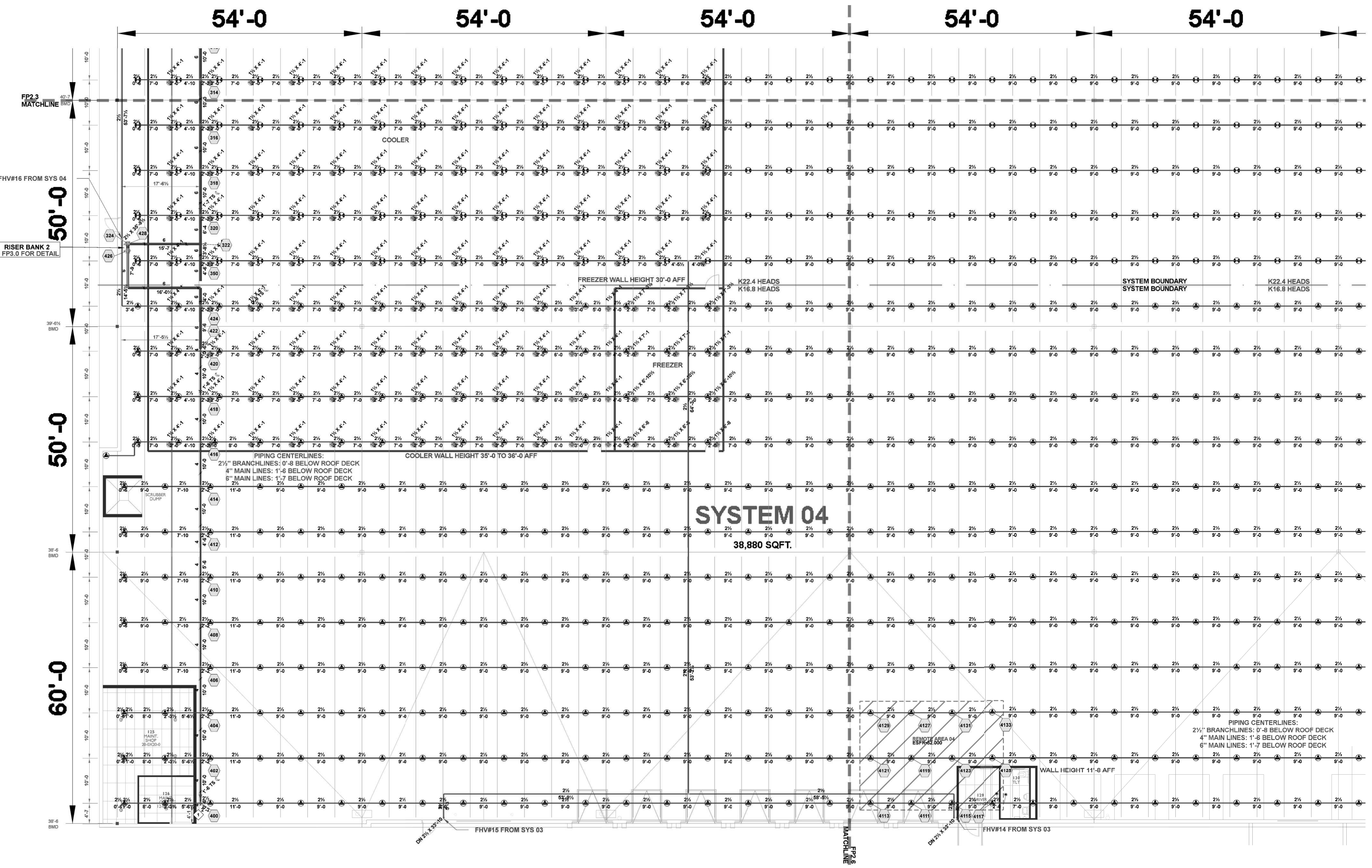
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FP2.3.1

AREA 3: SYSTEMS
03-04



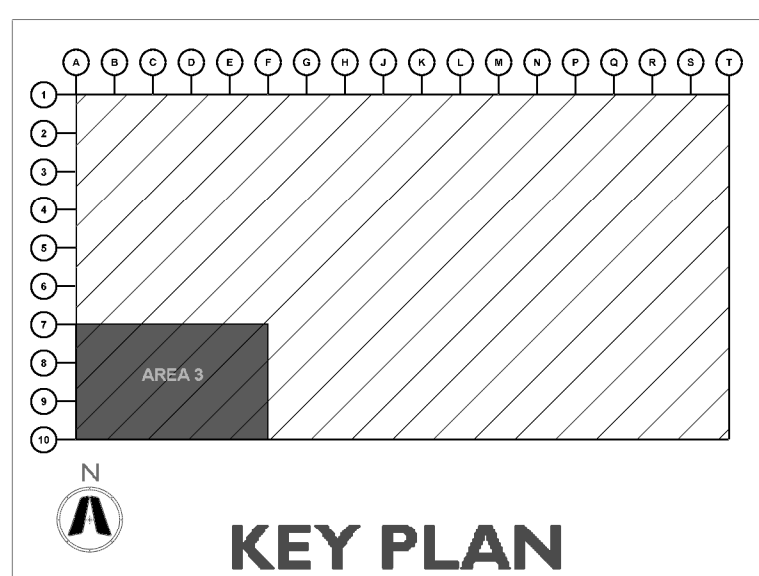
Hydraulic Information	
Remote Area 04	
OCCUPANCY CLASSIFICATION	ESFR
MIN. END HEAD PRESSURE	52,000 (ESFR)
TOTAL HOSE STREAMS	250.00
TOTAL HEADS FLOWING	12
K-FACTOR	16.8
TOTAL WATER REQUIRED	1708.55
TOTAL PRESSURE REQUIRED	80.726
BASE OF RISER (GPM)	1708.55
BASE OF RISER (PSI)	80.726
SAFETY MARGIN (PSI)	+8.879 (9.9%)

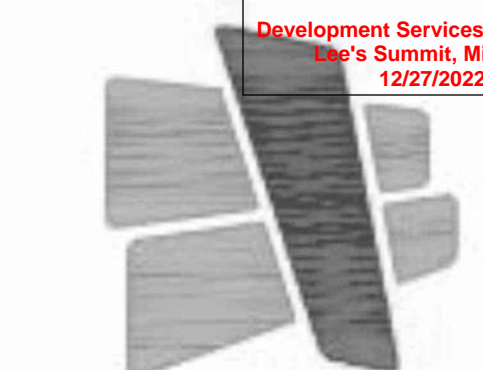
AREA 3: SYSTEMS 03-04
SCALE: 3/32" = 1'-0"

Sprinkler Legend											
SYMBOL	QUANTITY	MANUFACTURER	SIN	MODEL	K-FACTOR	TYPE	SIZE	RESPONSE	FINISH	TEMPERATURE	NOTE
	2054	VICTAULIC	V4702	FL-QR/ST/ESFR	16.8	PENDENT	¾	FAST	BRASS	200°F	
	4	VICTAULIC	V3406	V34	8	PENDENT	¾	QUICK	BRASS	200°F	
	2754	VICTAULIC	V3428	ESFR	22.4	PENDENT	1	FAST	BRASS	200°F	
	48	VIKING	VK600	MICROFAST	5.6	PENDENT	½	QUICK	CHROME	135°F	
	6	VIKING	VK3021		5.6	PENDENT	½	QUICK	CHROME	135°F	
	368	VIKING	VK504	ESFR DRY	16.8	PENDENT	¾	QUICK	BRASS	205°F	
TOTAL = 5234											

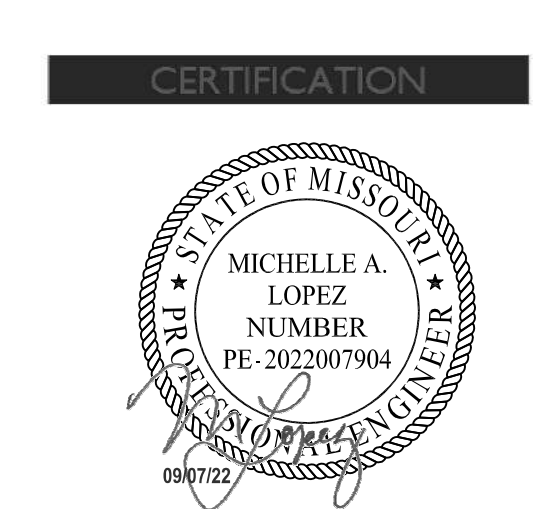
**JOIST BRIDGING ROWS CANNOT BE ERECTED WITHIN OF 1'-6"
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- AUXILIARY DRAIN
SEE FP0.0 FOR DETAIL
 - AIR VENT
SEE FP0.0 FOR DETAIL





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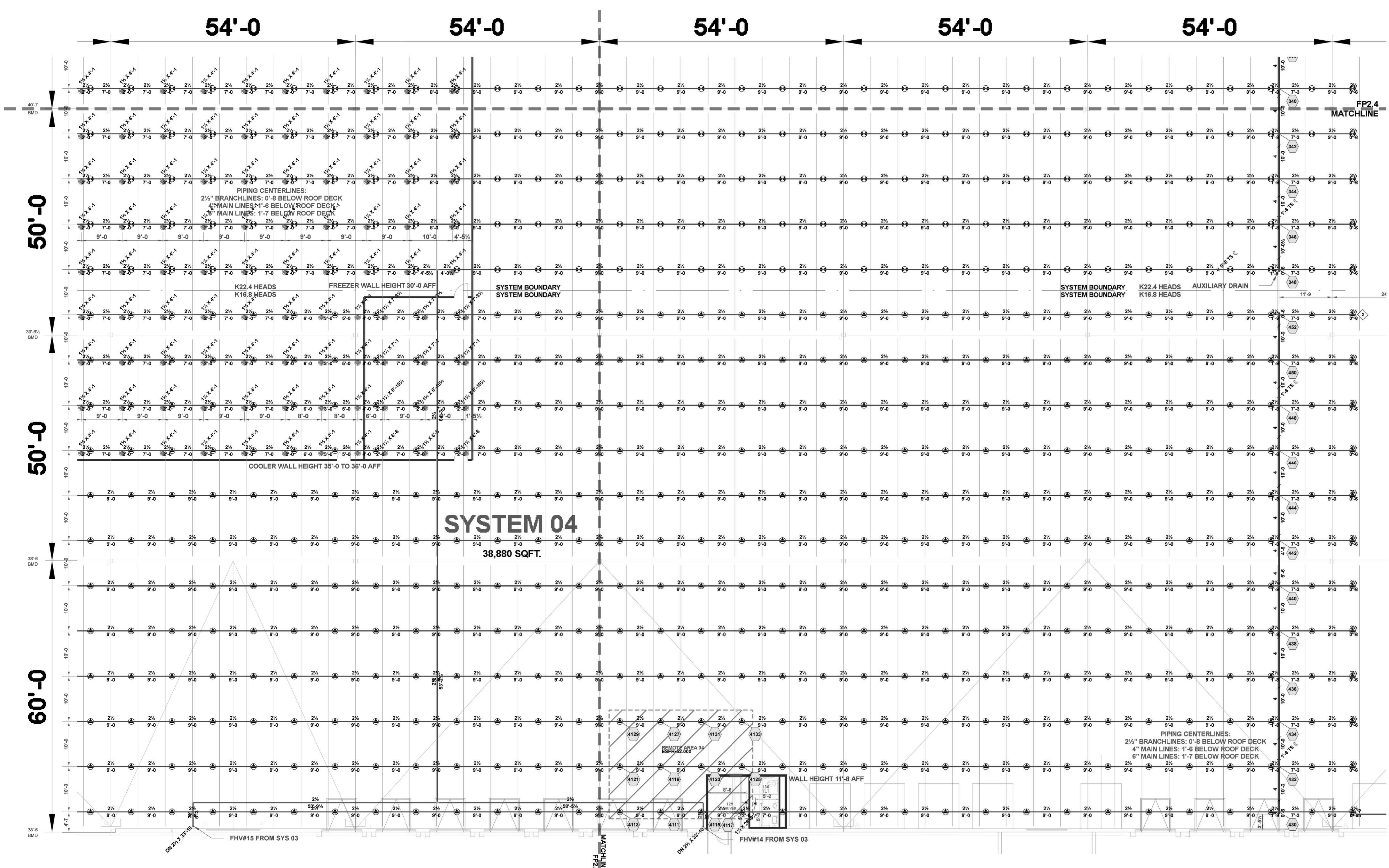
PROJECT INFORMATION

**LEE'S SUMMIT LOGISTICS
BUILDING A LOT I**
NW CORNER OF
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LEE'S SUMMIT, MO 64086

ISSUE DATES	
PERMIT SET	02.18.22
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FP2.3.2
AREA 3(CONT.):
SYSTEMS 03-04

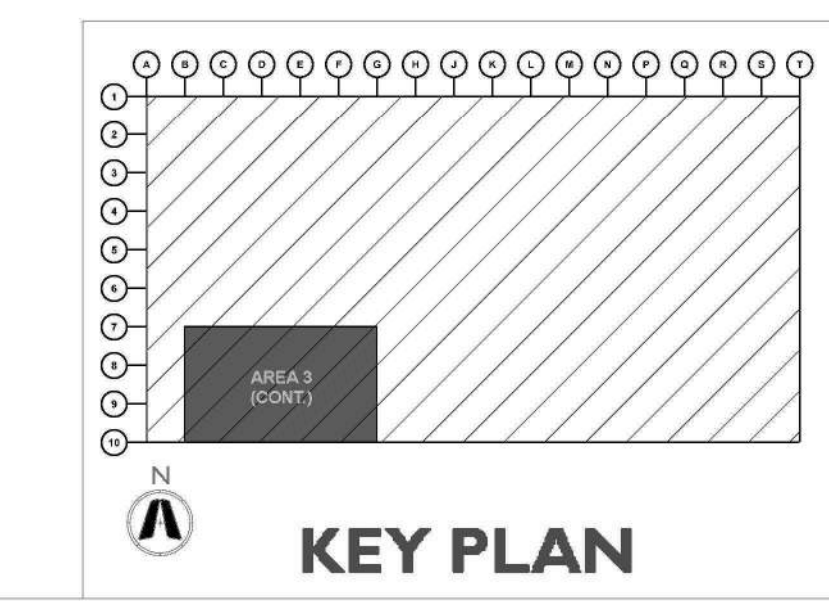


Hydraulic Information	
Remote Area 04	
OCCUPANCY CLASSIFICATION	ESFR
MIN. END HEAD PRESSURE	52.000 (ESFR)
TOTAL HOSE STREAMS	250.00
TOTAL HEADS FLOWING	12
K-FACTOR	16.8
TOTAL WATER REQUIRED	1708.55
TOTAL PRESSURE REQUIRED	80.726
BASE OF RISER (GPM)	1708.55
BASE OF RISER (PSI)	80.726
SAFETY MARGIN (PSI)	+8.879 (9.9%)

AREA 3(CONT.): SYSTEMS 03-04
SCALE: 3/32" = 1'-0"

Sprinkler Legend											
SYMBOL	QUANTITY	MANUFACTURER	SIN	MODEL	K-FACTOR	TYPE	SIZE	RESPONSE	FINISH	TEMPERATURE	NOTE
	2054	VICTAULIC	V4702	FL-QR/ST/ESFR	16.8	PENDENT	¾	FAST	BRASS	200°F	
	4	VICTAULIC	V3406	V34	8	PENDENT	¾	QUICK	BRASS	200°F	
	2754	VICTAULIC	V3428	ESFR	22.4	PENDENT	1	FAST	BRASS	200°F	
	48	VIKING	VK600	MICROFAST	5.6	PENDENT	½	QUICK	CHROME	135°F	
	6	VIKING	VK3021		5.6	PENDENT	½	QUICK	CHROME	135°F	
	368	VIKING	VK504	ESFR DRY	16.8	PENDENT	¾	QUICK	BRASS	205°F	
TOTAL = 5234											

**JOIST BRIDGING ROWS CANNOT BE ERECTED WITHIN OF 1'-6" OF ANY SURROUNDING ESFR BRANCH LINE CENTERLINE





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PROJECT INFORMATION

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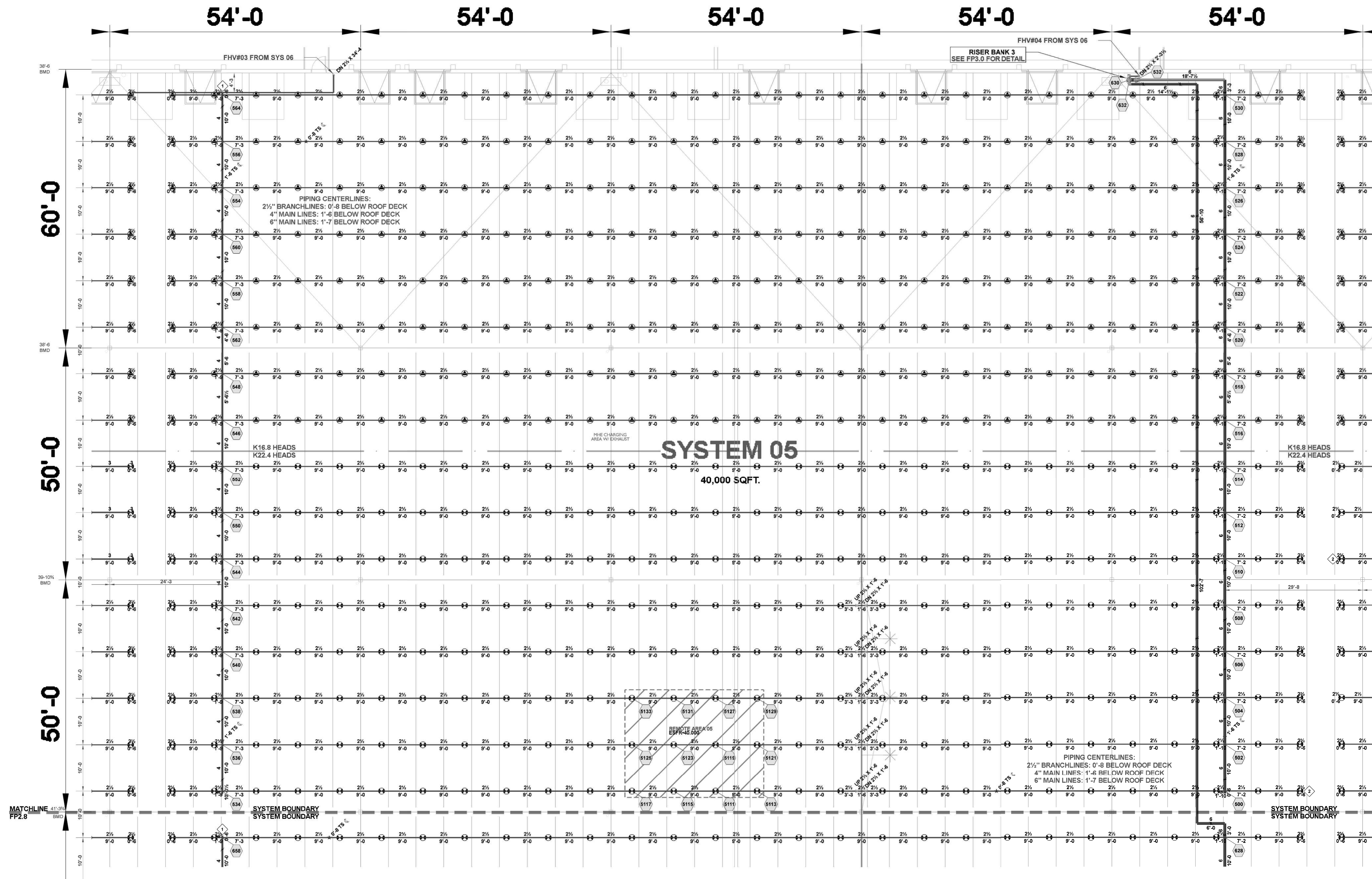
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FP2.4

AREA 4: SYSTEM 05



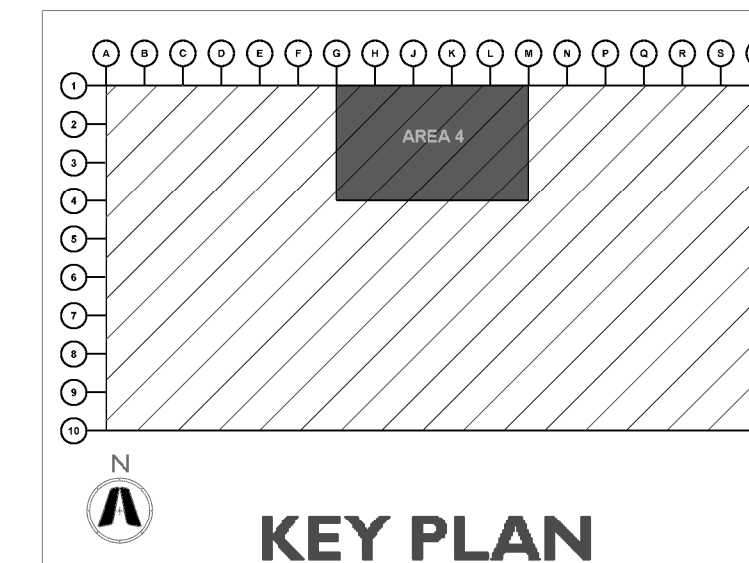
Hydraulic Information	
Remote Area 05	
OCCUPANCY CLASSIFICATION	ESFR
MIN. END HEAD PRESSURE	40.000 (ESFR)
TOTAL HOSE STREAMS	250.00
TOTAL HEADS FLOWING	12
K-FACTOR	22.4
TOTAL WATER REQUIRED	1959.12
TOTAL PRESSURE REQUIRED	73.843
BASE OF RISER (GPM)	1959.12
BASE OF RISER (PSI)	73.843
SAFETY MARGIN (PSI)	+13.633 (15.6%)

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

Sprinkler Legend											
SYMBOL	QUANTITY	MANUFACTURER	SIN	MODEL	K-FACTOR	TYPE	SIZE	RESPONSE	FINISH	TEMPERATURE	NOTE
▲	2054	VICTAULIC	V4702	FL-QR/ST/ESFR	16.8	PENDENT	3/4	FAST	BRASS	200°F	
⊗	4	VICTAULIC	V3406	V34	8	PENDENT	3/4	QUICK	BRASS	200°F	
⊗	2754	VICTAULIC	V3428	ESFR	22.4	PENDENT	1	FAST	BRASS	200°F	
⊗	48	VIKING	VK600	MICROFAST	5.6	PENDENT	1/2	QUICK	CHROME	135°F	
⊗	6	VIKING	VK3021		5.6	PENDENT	1/2	QUICK	CHROME	135°F	
◆	368	VIKING	VK504	ESFR DRY	16.8	PENDENT	3/4	QUICK	BRASS	205°F	
TOTAL = 5234											

**JOIST BRIDGING ROWS CANNOT BE ERECTED WITHIN OF 1'-6" OF ANY SURROUNDING ESFR BRANCH LINE CENTERLINE

⬆ - AUXILIARY DRAIN
SEE FP0.0 FOR DETAIL
⬆ - AIR VENT
SEE FP0.0 FOR DETAIL





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PROJECT INFORMATION

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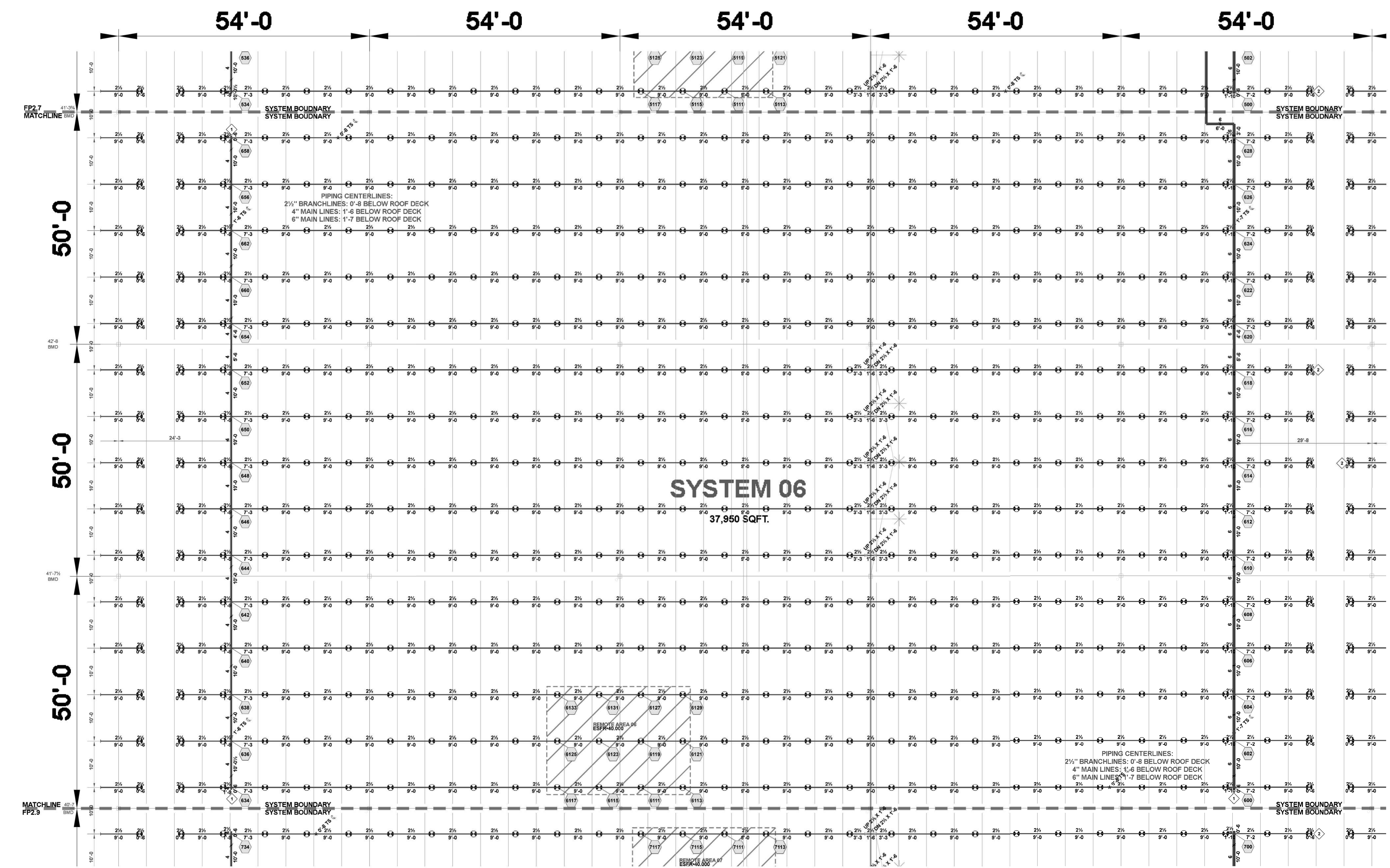
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FP2.5

AREA 5: SYSTEM 06



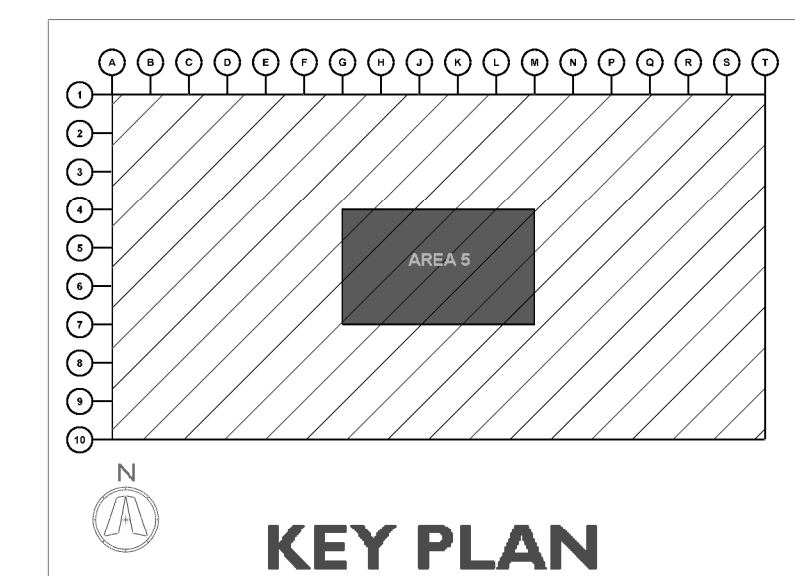
Hydraulic Information	
Remote Area 06	
OCCUPANCY CLASSIFICATION	ESFR
MIN. END HEAD PRESSURE	40.000 (ESFR)
TOTAL HOSE STREAMS	250.00
TOTAL HEADS FLOWING	12
K-FACTOR	22.4
TOTAL WATER REQUIRED	1956.47
TOTAL PRESSURE REQUIRED	80.319
BASE OF RISER (GPM)	1956.47
BASE OF RISER (PSI)	80.319
SAFETY MARGIN (PSI)	+7.179 (8.2%)

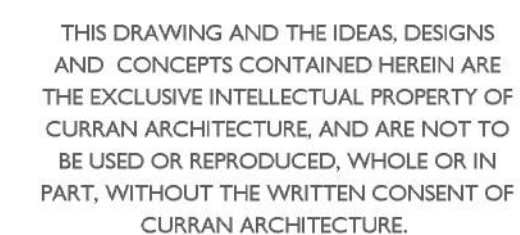
AREA 5: SYSTEM 06
SCALE: 3/32" = 1'-0"

Sprinkler Legend											
SYMBOL	QUANTITY	MANUFACTURER	SIN	MODEL	K-FACTOR	TYPE	SIZE	RESPONSE	FINISH	TEMPERATURE	NOTE
	2054	VICTAULIC	V4702	FL-QR/ST/ESFR	16.8	PENDENT	¾	FAST	BRASS	200°F	
	4	VICTAULIC	V3406	V34	8	PENDENT	¾	QUICK	BRASS	200°F	
	2754	VICTAULIC	V3428	ESFR	22.4	PENDENT	1	FAST	BRASS	200°F	
	48	VIKING	VK600	MICROFAST	5.6	PENDENT	½	QUICK	CHROME	135°F	
	6	VIKING	VK3021		5.6	PENDENT	½	QUICK	CHROME	135°F	
	368	VIKING	VK504	ESFR DRY	16.8	PENDENT	¾	QUICK	BRASS	205°F	
TOTAL = 5234											

**JOIST BRIDGING ROWS CANNOT BE ERECTED WITHIN OF 1'-6"
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◆ - AUXILIARY DRAIN
SEE FP0.0 FOR DETAIL
◆ - AIR VENT
SEE FP0.0 FOR DETAIL





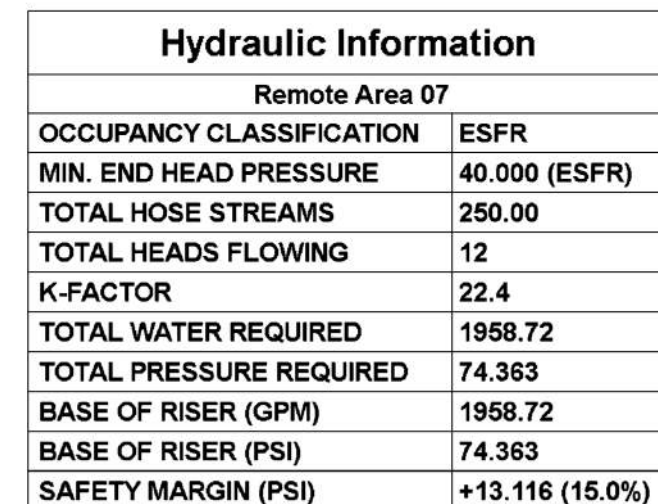
LEE'S SUMMIT LOGISTICS

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 TENANT IMPROVEMENT 09.07.22

FP2.6

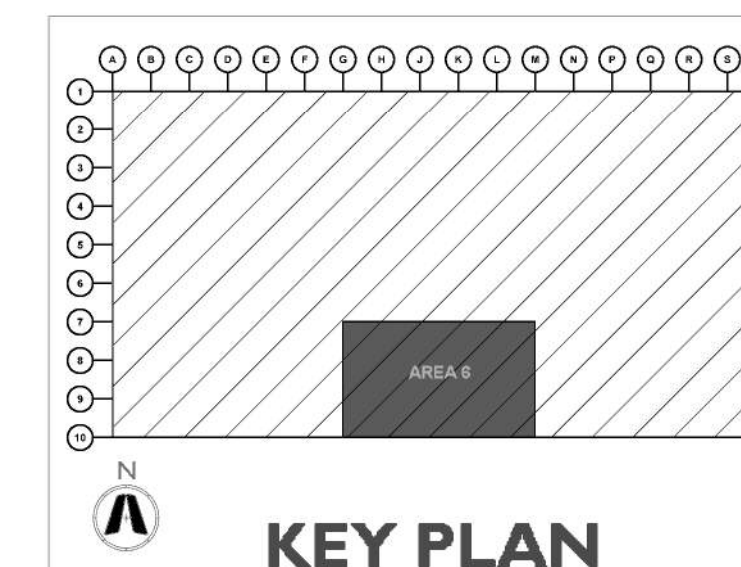
AREA 6: SYSTEM 07



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

Sprinkler Legend											
SYMBOL	QUANTITY	MANUFACTURER	SIN	MODEL	K-FACTOR	TYPE	SIZE	RESPONSE	FINISH	TEMPERATURE	NOT
	2054	VICTAULIC	V4702	FL-QR/ST/ESFR	16.8	PENDENT	3/4"	FAST	BRASS	200°F	
	4	VICTAULIC	V3406	V34	8	PENDENT	3/4"	QUICK	BRASS	200°F	
	2764	VICTAULIC	V3428	ESFR	22.4	PENDENT	1"	FAST	BRASS	200°F	
	48	VIKING	VK600	MICROFAST	5.6	PENDENT	1/2"	QUICK	CHROME	135°F	
	6	VIKING	VK3021		5.6	PENDENT	1/2"	QUICK	CHROME	135°F	
	368	VIKING	VK604	ESFR DRY	16.8	PENDENT	3/4"	QUICK	BRASS	205°F	
TOTAL = 6234											

****JOIST BRIDGING ROWS CANNOT BE ERECTED WITHIN OF 1' OF ANY SURROUNDING ESRF BRANCH LINE CENTERLINE**





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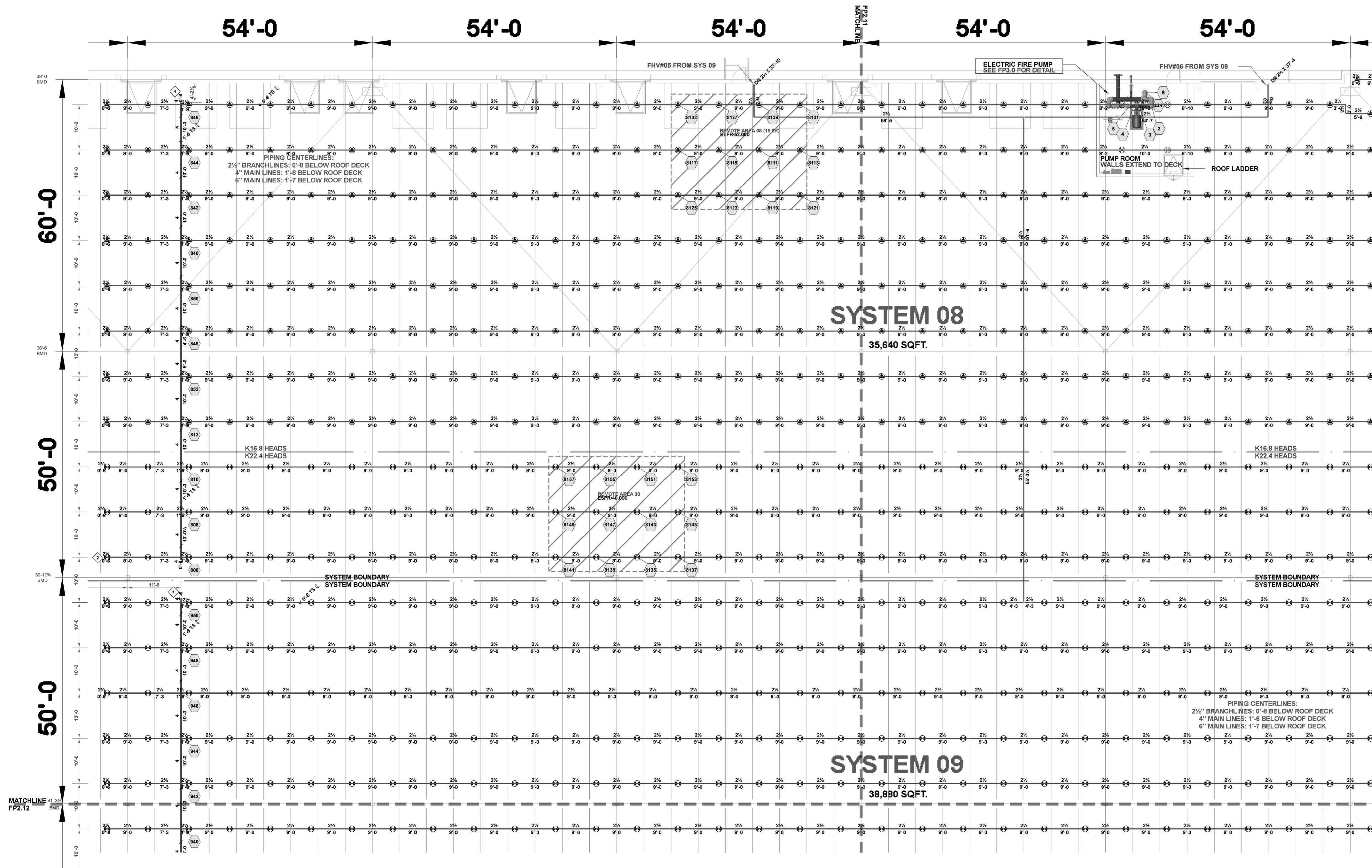
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FP2.7.1

AREA 7: SYSTEMS
08-09



Hydraulic Information		Hydraulic Information	
Remote Area 08 (K16.8)		Remote Area 08	
OCCUPANCY CLASSIFICATION	ESFR	OCCUPANCY CLASSIFICATION	ESFR
MIN. END HEAD PRESSURE	52,000 (ESFR)	MIN. END HEAD PRESSURE	40,000 (ESFR)
TOTAL HOSE STREAMS	250.00	TOTAL HOSE STREAMS	250.00
TOTAL HEADS FLOWING	12	TOTAL HEADS FLOWING	12
K-FACTOR	16.8	K-FACTOR	22.4
TOTAL WATER REQUIRED	1711.62	TOTAL WATER REQUIRED	1956.80
TOTAL PRESSURE REQUIRED	73.476	TOTAL PRESSURE REQUIRED	81.616
BASE OF RISER (GPM)	1711.62	BASE OF RISER (GPM)	1956.80
BASE OF RISER (PSI)	73.476	BASE OF RISER (PSI)	81.616
SAFETY MARGIN (PSI)	+16.104 (18.0%)	SAFETY MARGIN (PSI)	+5.880 (6.7%)

AREA 7: SYSTEMS 08-09

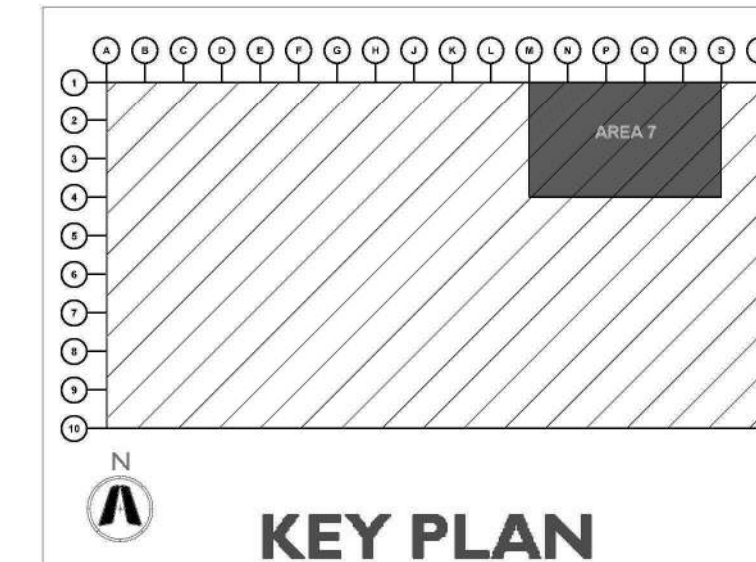
SCALE: 3/32" = 1'-0"

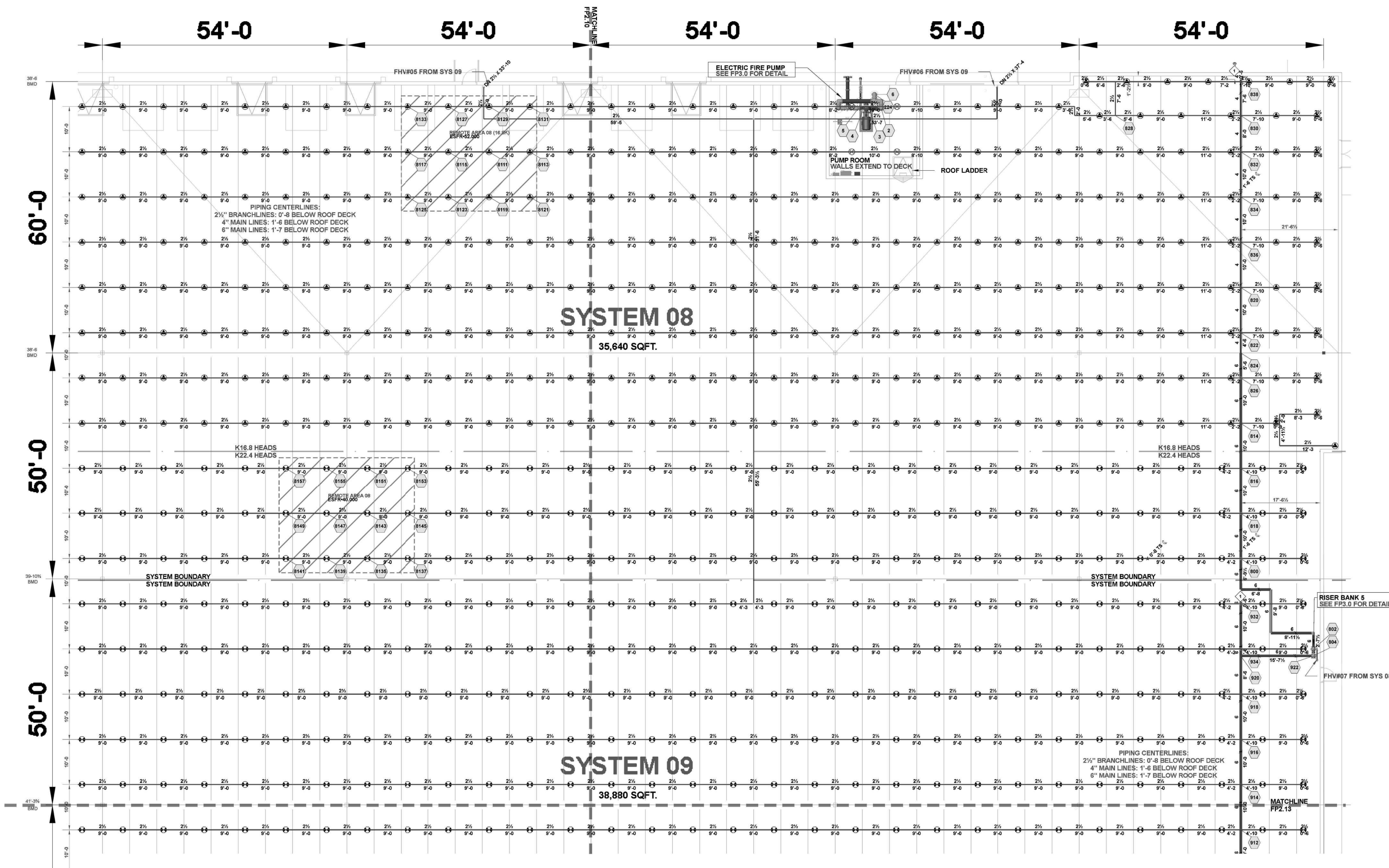
Sprinkler Legend

SYMBOL	QUANTITY	MANUFACTURER	SIN	MODEL	K-FACTOR	TYPE	SIZE	RESPONSE	FINISH	TEMPERATURE	NOTE
▲	2054	VICTAULIC	V4702	FL-QR/ST/ESFR	16.8	PENDENT	3/4"	FAST	BRASS	200°F	
⊗	4	VICTAULIC	V3406	V34	8	PENDENT	3/4"	QUICK	BRASS	200°F	
⊙	2754	VICTAULIC	V3428	ESFR	22.4	PENDENT	1"	FAST	BRASS	200°F	
●	48	VIKING	VK600	MICROFAST	5.6	PENDENT	1/2"	QUICK	CHROME	135°F	
○	6	VIKING	VK3021		5.6	PENDENT	1/2"	QUICK	CHROME	135°F	
◆	368	VIKING	VK504	ESFR DRY	16.8	PENDENT	3/4"	QUICK	BRASS	205°F	
TOTAL = 5234											

**JOIST BRIDGING ROWS CANNOT BE ERECTED WITHIN OF 1'-6"
OF ANY SURROUNDING ESFR BRANCH LINE CENTERLINE

▲ AUXILIARY DRAIN
SEE FP0.0 FOR DETAIL
◆ AIR VENT
SEE FP0.0 FOR DETAIL



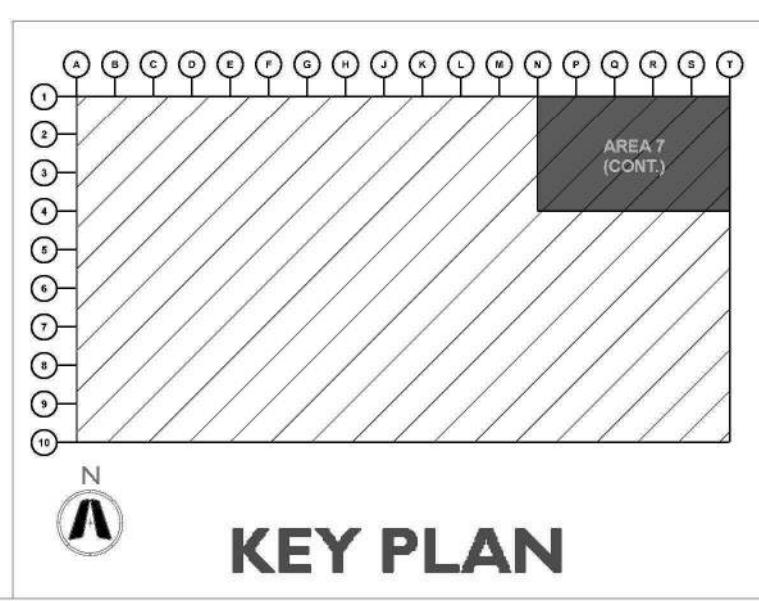


Hydraulic Information		Hydraulic Information	
Remote Area 08 (K16.8)		Remote Area 08	
OCCUPANCY CLASSIFICATION	ESFR	OCCUPANCY CLASSIFICATION	ESFR
MIN. END HEAD PRESSURE	52,000 (ESFR)	MIN. END HEAD PRESSURE	40,000 (ESFR)
TOTAL HOSE STREAMS	250.00	TOTAL HOSE STREAMS	250.00
TOTAL HEADS FLOWING	12	TOTAL HEADS FLOWING	12
K-FACTOR	16.8	K-FACTOR	22.4
TOTAL WATER REQUIRED	1711.62	TOTAL WATER REQUIRED	1956.80
TOTAL PRESSURE REQUIRED	73.476	TOTAL PRESSURE REQUIRED	81.616
BASE OF RISER (GPM)	1711.62	BASE OF RISER (GPM)	1956.80
BASE OF RISER (PSI)	73.476	BASE OF RISER (PSI)	81.616
SAFETY MARGIN (PSI)	+16.104 (18.0%)	SAFETY MARGIN (PSI)	+5.880 (6.7%)

Sprinkler Legend										
SYMBOL	QUANTITY	MANUFACTURER	SIN	MODEL	K-FACTOR	TYPE	SIZE	RESPONSE	FINISH	TEMPERATURE
▲	2054	VICTAULIC	V4702	FL-QR/ST/ESFR	16.8	PENDENT	¾"	FAST	BRASS	200°F
⊗	4	VICTAULIC	V3406	V34	8	PENDENT	¾"	QUICK	BRASS	200°F
⊕	2754	VICTAULIC	V3428	ESFR	22.4	PENDENT	1"	FAST	BRASS	200°F
⊙	48	VIKING	VK600	MICROFAST	5.6	PENDENT	½"	QUICK	CHROME	135°F
⊖	6	VIKING	VK3021		5.6	PENDENT	½"	QUICK	CHROME	135°F
◆	368	VIKING	VK504	ESFR DRY	16.8	PENDENT	¾"	QUICK	BRASS	205°F
TOTAL = 5234										

**JOIST BRIDGING ROWS CANNOT BE ERECTED WITHIN OF 1'-6" OF ANY SURROUNDING ESFR BRANCH LINE CENTERLINE

▲ AUXILIARY DRAIN
SEE FP3.0 FOR DETAIL
◆ AIR VENT
SEE FP1.0 FOR DETAIL



AREA 7(CONT): SYSTEMS 08-09
SCALE: 3/32" = 1'-0"



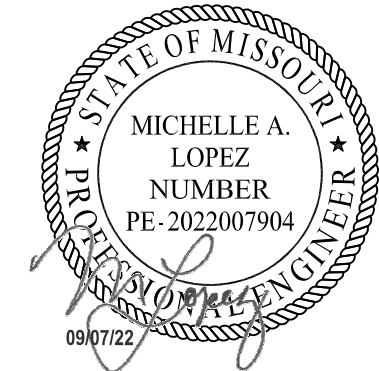
CURRAN
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PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS
BUILDING A LOT I

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

ISSUE DATES

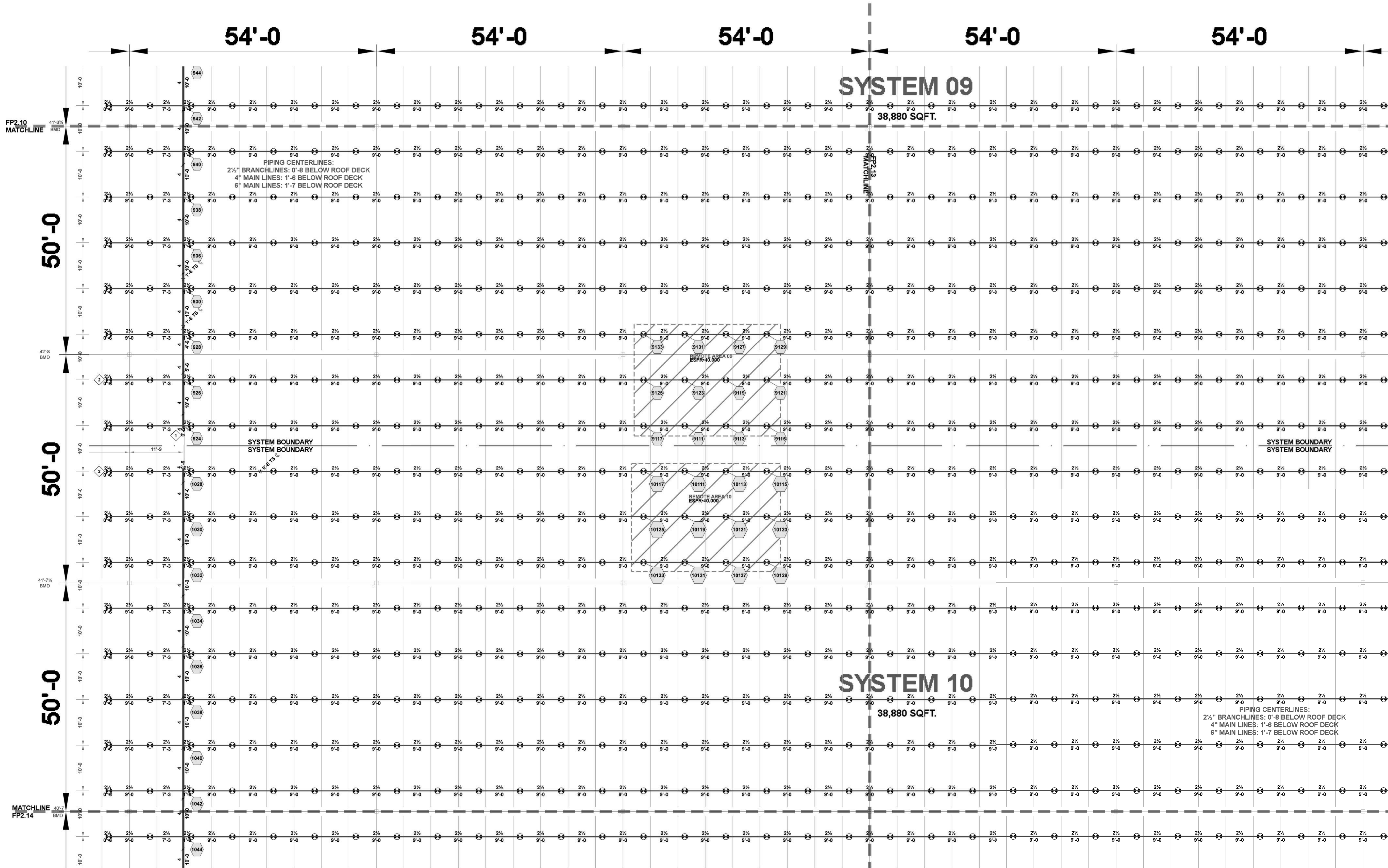
PERMIT SET 02.18.22

TENANT IMPROVEMENT 09.07.22

210300

FP2.8.1

AREA 8: SYSTEMS
09-10



AREA 8: SYSTEMS 09-10

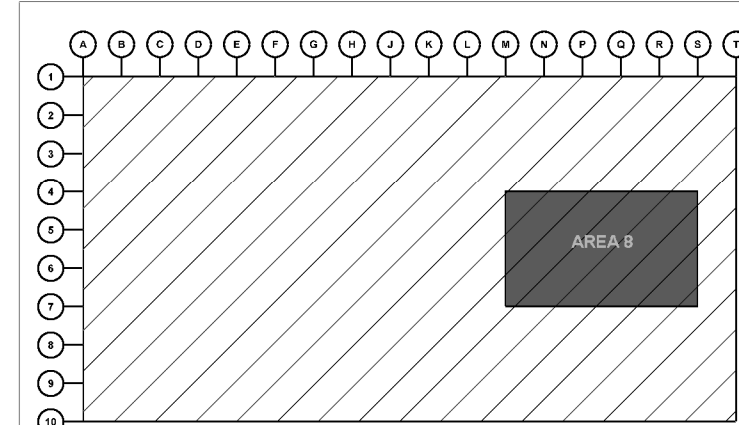
SCALE: 3/32" = 1'-0"



Sprinkler Legend

SYMBOL	QUANTITY	MANUFACTURER	SIN	MODEL	K-FACTOR	TYPE	SIZE	RESPONSE	FINISH	TEMPERATURE	NOTE
	2054	VICTAULIC	V4702	FL-QR/ST/ESFR	16.8	PENDENT	3/4"	FAST	BRASS	200°F	
	4	VICTAULIC	V3406	V34	8	PENDENT	3/4"	QUICK	BRASS	200°F	
	2754	VICTAULIC	V3428	ESFR	22.4	PENDENT	1"	FAST	BRASS	200°F	
	48	VIKING	VK600	MICROFAST	5.6	PENDENT	1/2"	QUICK	CHROME	135°F	
	6	VIKING	VK3021		5.6	PENDENT	1/2"	QUICK	CHROME	135°F	
	368	VIKING	VK504	ESFR DRY	16.8	PENDENT	3/4"	QUICK	BRASS	205°F	
	TOTAL = 5234										

**JOIST BRIDGING ROWS CANNOT BE ERECTED WITHIN OF 1'-6"
OF ANY SURROUNDING ESFR BRANCH LINE CENTERLINE



KEY PLAN

Hydraulic Information		Hydraulic Information	
Remote Area 09		Remote Area 10	
OCCUPANCY CLASSIFICATION	ESFR	OCCUPANCY CLASSIFICATION	ESFR
MIN. END HEAD PRESSURE	40.000 (ESFR)	MIN. END HEAD PRESSURE	40.000 (ESFR)
TOTAL HOSE STREAMS	250.00	TOTAL HOSE STREAMS	250.00
TOTAL HEADS FLOWING	12	TOTAL HEADS FLOWING	12
K-FACTOR	22.4	K-FACTOR	22.4
TOTAL WATER REQUIRED	1956.70	TOTAL WATER REQUIRED	1958.59
TOTAL PRESSURE REQUIRED	75.314	TOTAL PRESSURE REQUIRED	77.654
BASE OF RISER (GPM)	1956.70	BASE OF RISER (GPM)	1958.59
BASE OF RISER (PSI)	75.314	BASE OF RISER (PSI)	77.654
SAFETY MARGIN (PSI)	+12.183 (13.9%)	SAFETY MARGIN (PSI)	+9.826 (11.2%)



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PROJECT INFORMATION

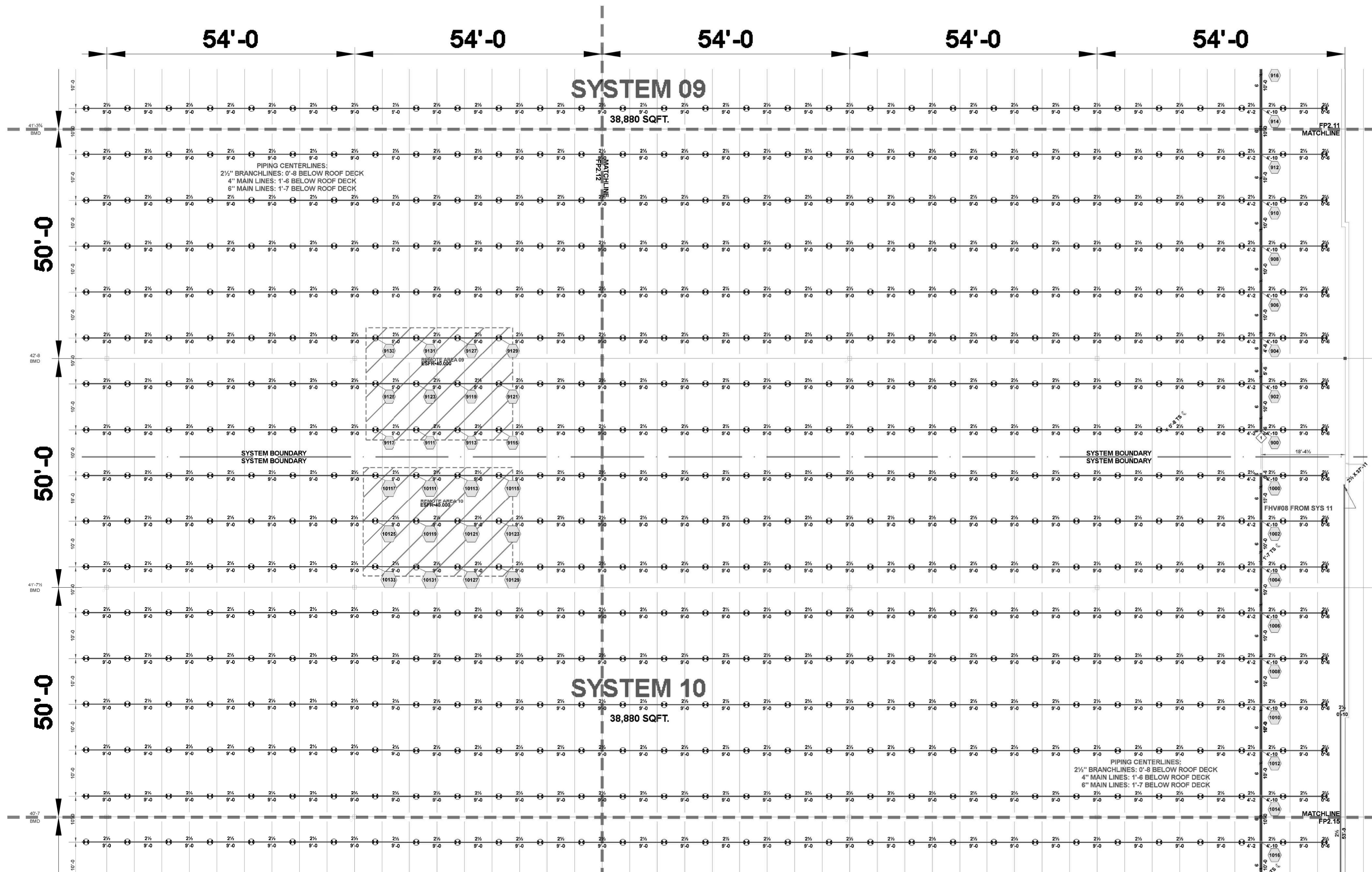
LEE'S SUMMIT LOGISTICS
BUILDING A LOT I
NW CORNER OF
NE TUDOR RD & MAIN ST
LEE'S SUMMIT, MO 64086

ISSUE DATES

PERMIT SET 02.18.22

TENANT IMPROVEMENT 09.07.22

210300
FP2.8.2
AREA 8 (CONT.):
SYSTEMS 09-10

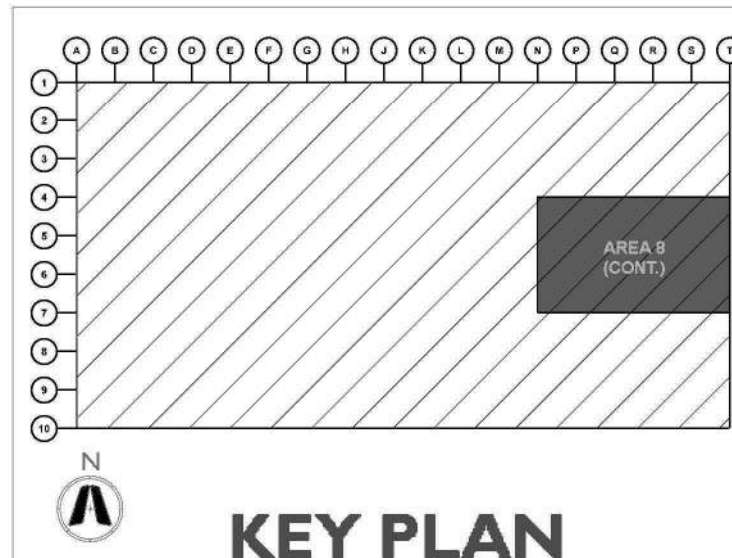


Hydraulic Information		Hydraulic Information	
Remote Area 09		Remote Area 10	
OCCUPANCY CLASSIFICATION	ESFR	OCCUPANCY CLASSIFICATION	ESFR
MIN. END HEAD PRESSURE	40.000 (ESFR)	MIN. END HEAD PRESSURE	40.000 (ESFR)
TOTAL HOSE STREAMS	250.00	TOTAL HOSE STREAMS	250.00
TOTAL HEADS FLOWING	12	TOTAL HEADS FLOWING	12
K-FACTOR	22.4	K-FACTOR	22.4
TOTAL WATER REQUIRED	1956.70	TOTAL WATER REQUIRED	1956.59
TOTAL PRESSURE REQUIRED	75.314	TOTAL PRESSURE REQUIRED	77.654
BASE OF RISER (GPM)	1956.70	BASE OF RISER (GPM)	1956.59
BASE OF RISER (PSI)	75.314	BASE OF RISER (PSI)	77.654
SAFETY MARGIN (PSI)	+12.183 (13.9%)	SAFETY MARGIN (PSI)	+9.826 (11.2%)

AREA 8 (CONT.): SYSTEMS 09-10
SCALE: 3/32" = 1'-0"

Sprinkler Legend										
SYMBOL	QUANTITY	MANUFACTURER	SIN	MODEL	K-FACTOR	TYPE	SIZE	RESPONSE	FINISH	TEMPERATURE
	2054	VICTAULIC	V4702	FL-QR/ST/ESFR	16.8	PENDENT	3/4"	FAST	BRASS	200°F
	4	VICTAULIC	V3406	V34	8	PENDENT	3/4"	QUICK	BRASS	200°F
	2754	VICTAULIC	V3428	ESFR	22.4	PENDENT	1"	FAST	BRASS	200°F
	48	VIKING	VK600	MICROFAST	5.6	PENDENT	1/2"	QUICK	CHROME	135°F
	6	VIKING	VK3021		5.6	PENDENT	1/2"	QUICK	CHROME	135°F
	368	VIKING	VK504	ESFR DRY	16.8	PENDENT	3/4"	QUICK	BRASS	205°F
TOTAL = 5234										

**JOIST BRIDGING ROWS CANNOT BE ERECTED WITHIN OF 1'-6"
OF ANY SURROUNDING ESFR BRANCH LINE CENTERLINE





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PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS
BUILDING A LOT I

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

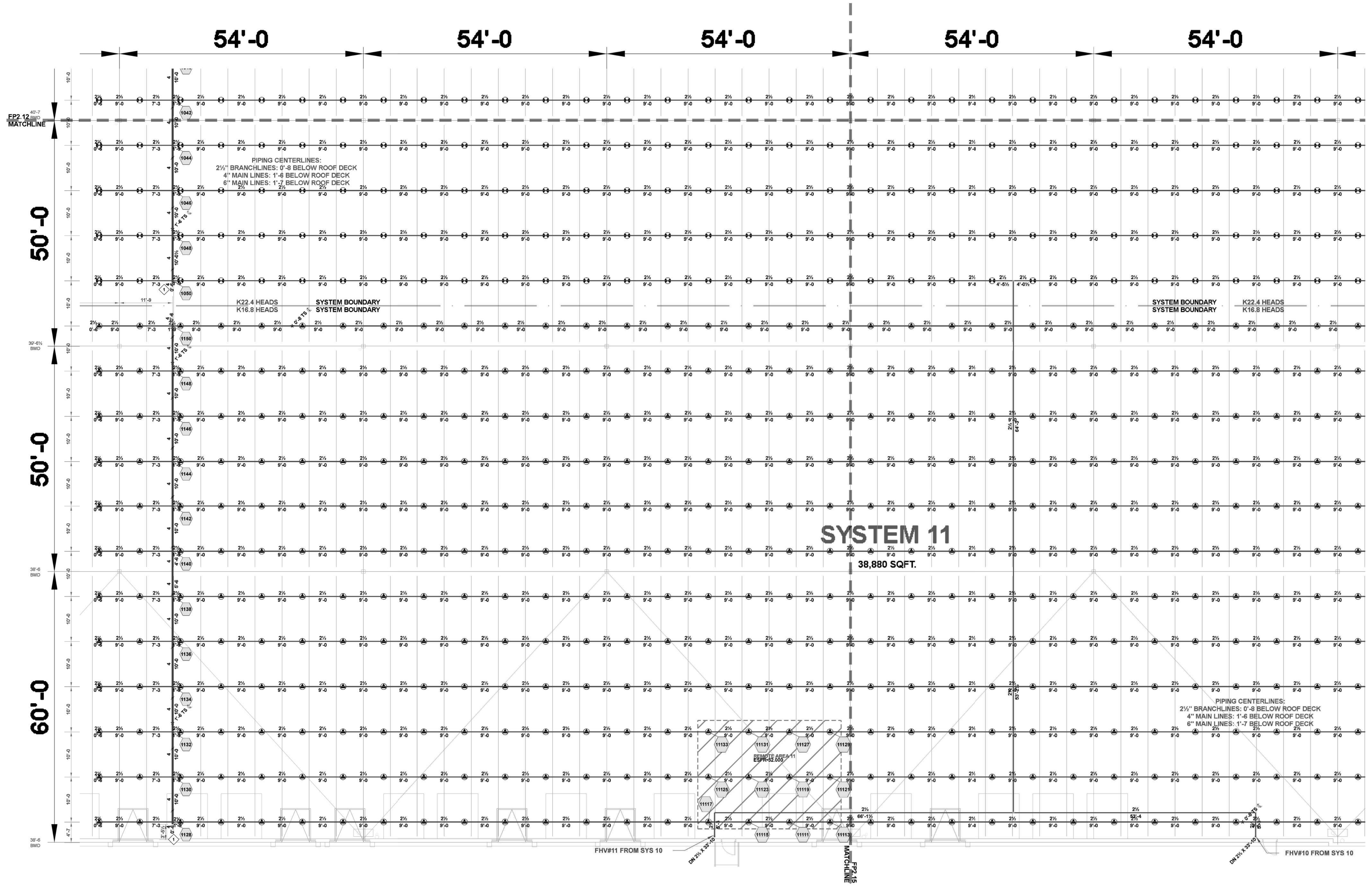
ISSUE DATES

PERMIT SET 02.18.22

TENANT IMPROVEMENT 09.07.22

210300

FP2.9.1
AREA 9: SYSTEMS
10-11

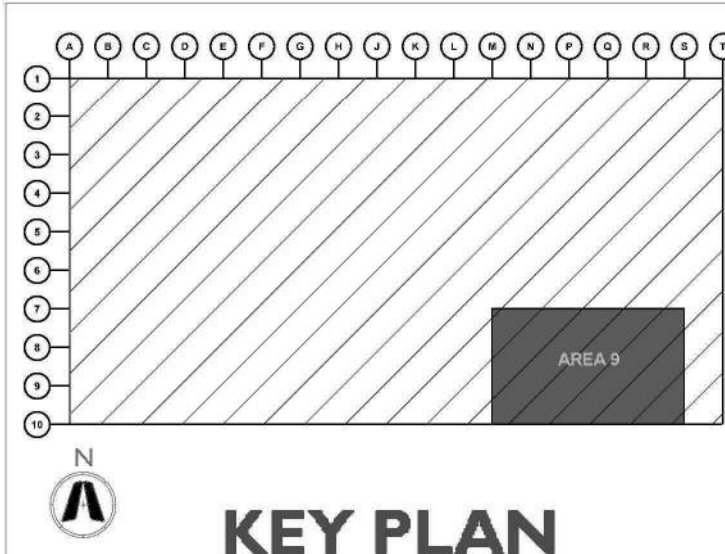


Hydraulic Information	
Remote Area 11	
OCCUPANCY CLASSIFICATION	ESFR
MIN. END HEAD PRESSURE	52.00 (ESFR)
TOTAL HOSE STREAMS	250.00
TOTAL HEADS FLOWING	12
K-FACTOR	16.8
TOTAL WATER REQUIRED	1708.55
TOTAL PRESSURE REQUIRED	79.115
BASE OF RISER (GPM)	1708.55
BASE OF RISER (PSI)	79.115
SAFETY MARGIN (PSI)	+10.490 (11.7%)

AREA 9: SYSTEMS 10-11
SCALE: 3/32" = 1'-0"

Sprinkler Legend										
SYMBOL	QUANTITY	MANUFACTURER	SIN	MODEL	K-FACTOR	TYPE	SIZE	RESPONSE	FINISH	TEMPERATURE
▲	2054	VICTAULIC	V4702	FL-QR/ST/ESFR	16.8	PENDENT	3/4"	FAST	BRASS	200°F
⊗	4	VICTAULIC	V3406	V34	8	PENDENT	3/4"	QUICK	BRASS	200°F
⊙	2754	VICTAULIC	V3428	ESFR	22.4	PENDENT	1"	FAST	BRASS	200°F
●	48	VIKING	VK600	MICROFAST	5.6	PENDENT	1/2"	QUICK	CHROME	135°F
⦿	6	VIKING	VK3021		5.6	PENDENT	1/2"	QUICK	CHROME	135°F
◆	368	VIKING	VK504	ESFR DRY	16.8	PENDENT	3/4"	QUICK	BRASS	205°F
TOTAL = 5234										

**JOIST BRIDGING ROWS CANNOT BE ERECTED WITHIN OF 1'-6" OF ANY SURROUNDING ESFR BRANCH LINE CENTERLINE





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PROJECT INFORMATION

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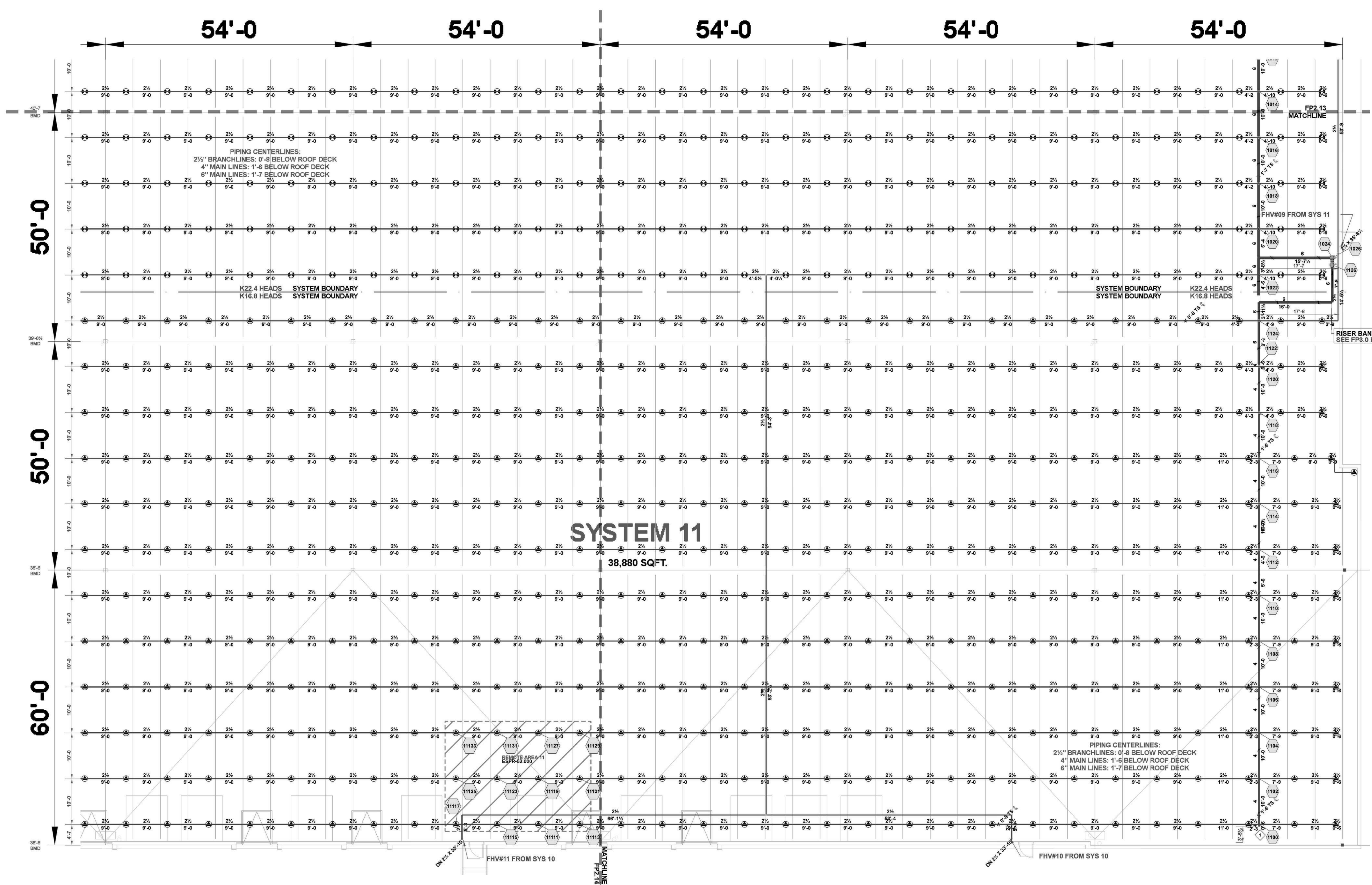
ISSUE DATES

PERMIT SET 02.18.22
TENANT IMPROVEMENT 09.07.22

210300

FP2.9.2

AREA 9(CONT.):
SYSTEMS 10-11



Hydraulic Information	
Remote Area 11	
OCCUPANCY CLASSIFICATION	ESFR
MIN. END HEAD PRESSURE	52.000 (ESFR)
TOTAL HOSE STREAMS	250.00
TOTAL HEADS FLOWING	12
K-FACTOR	16.8
TOTAL WATER REQUIRED	1708.55
TOTAL PRESSURE REQUIRED	79.115
BASE OF RISER (GPM)	1708.55
BASE OF RISER (PSI)	79.115
SAFETY MARGIN (PSI)	+10.490 (11.7%)

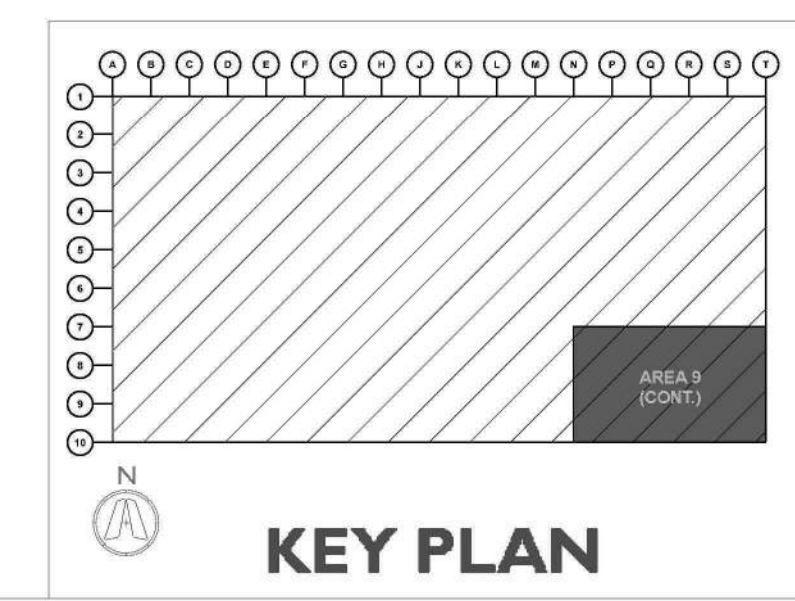
AREA 9(CONT.): SYSTEMS 10-11
SCALE: 3/32" = 1'-0"

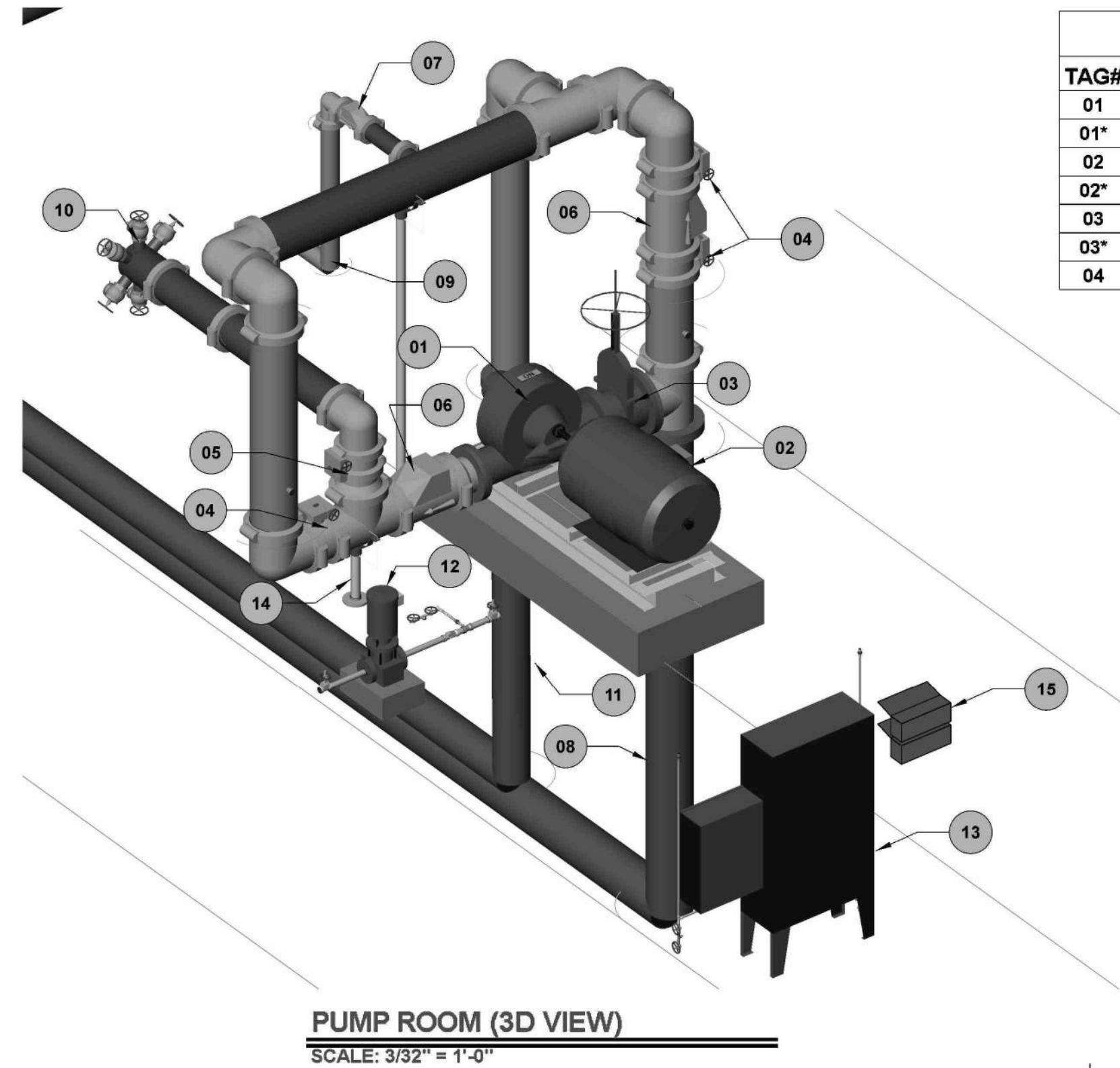
Sprinkler Legend										
SYMBOL	QUANTITY	MANUFACTURER	SIN	MODEL	K-FACTOR	TYPE	SIZE	RESPONSE	FINISH	TEMPERATURE
	2054	VICTAULIC	V4702	FL-QR/ST/ESFR	16.8	PENDENT	3/4"	FAST	BRASS	200°F
	4	VICTAULIC	V3406	V34	8	PENDENT	3/4"	QUICK	BRASS	200°F
	2754	VICTAULIC	V3428	ESFR	22.4	PENDENT	1"	FAST	BRASS	200°F
	48	VIKING	VK600	MICROFAST	5.6	PENDENT	1/2"	QUICK	CHROME	135°F
	6	VIKING	VK3021		5.6	PENDENT	1/2"	QUICK	CHROME	135°F
	368	VIKING	VK504	ESFR DRY	16.8	PENDENT	3/4"	QUICK	BRASS	205°F
TOTAL = 5234										

**JOIST BRIDGING ROWS CANNOT BE ERECTED WITHIN OF 1'-6"
OF ANY SURROUNDING ESFR BRANCH LINE CENTERLINE

AUXILIARY DRAIN
SEE FP0.0 FOR DETAIL

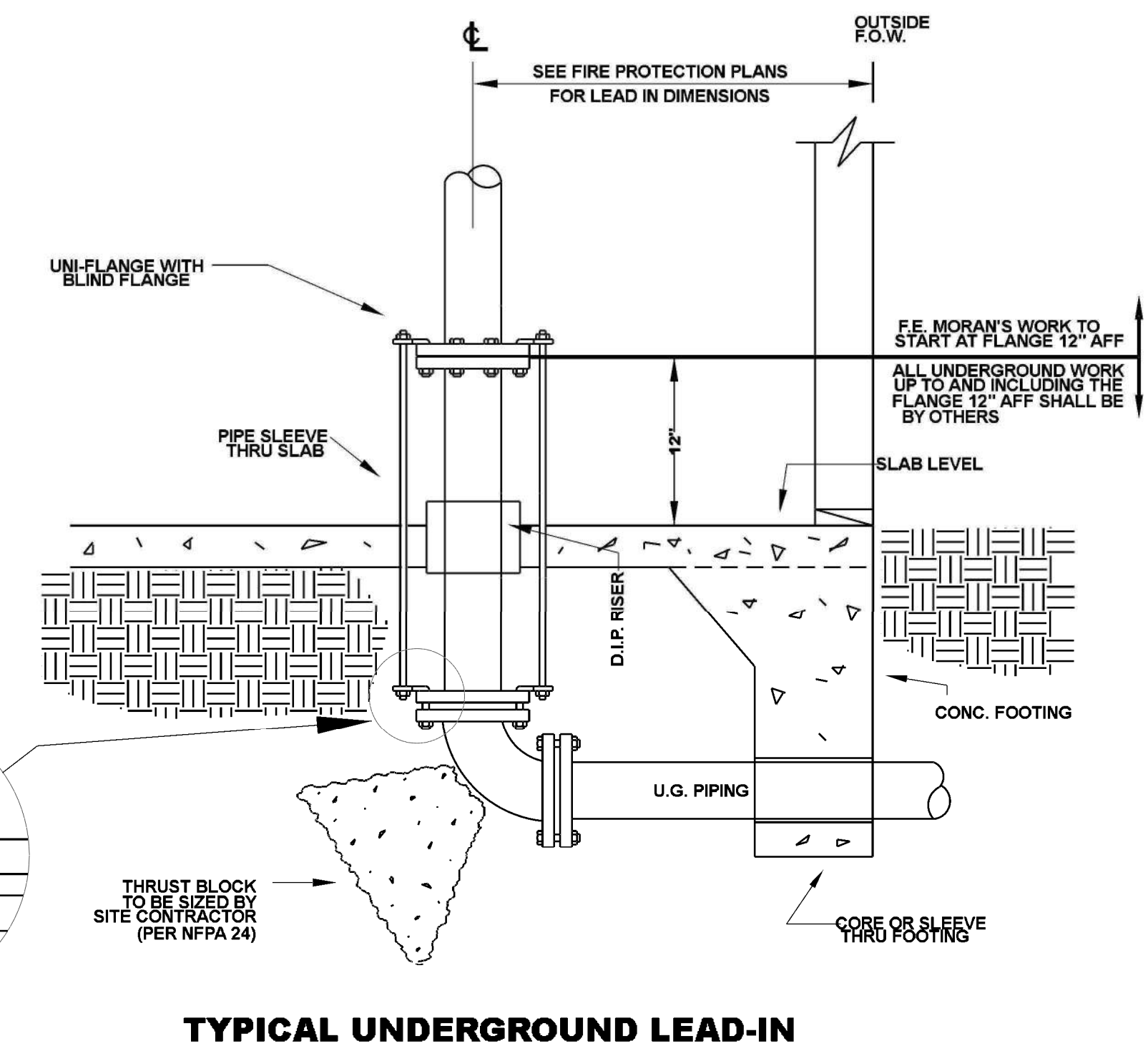
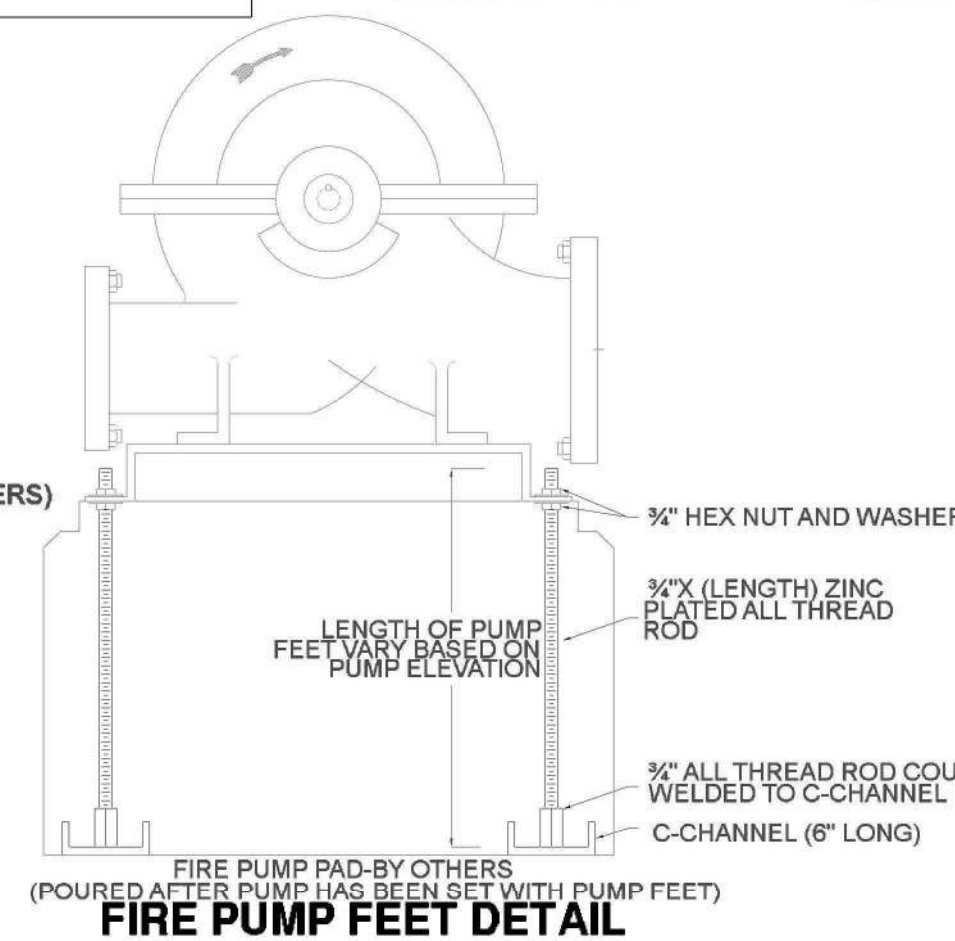
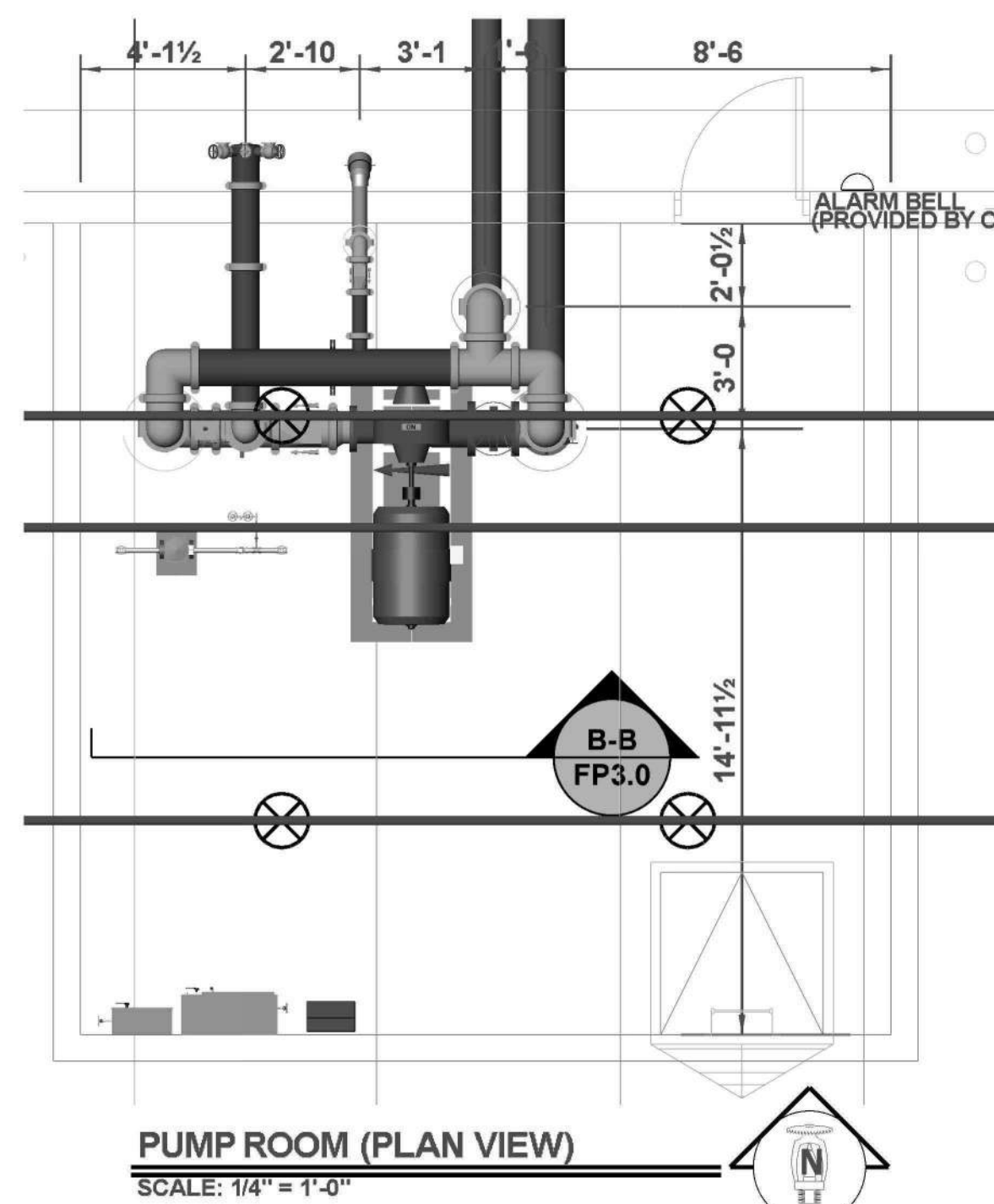
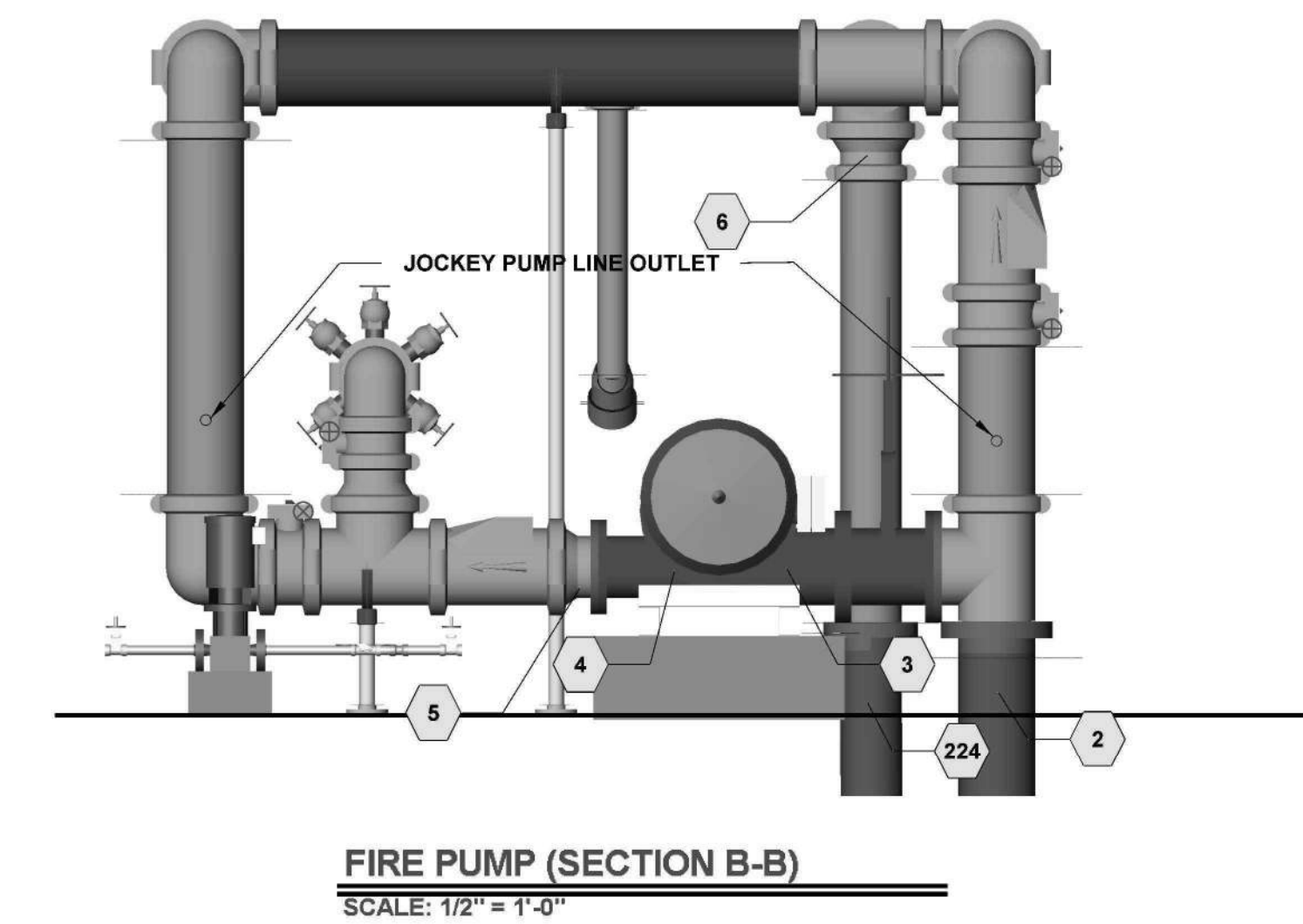
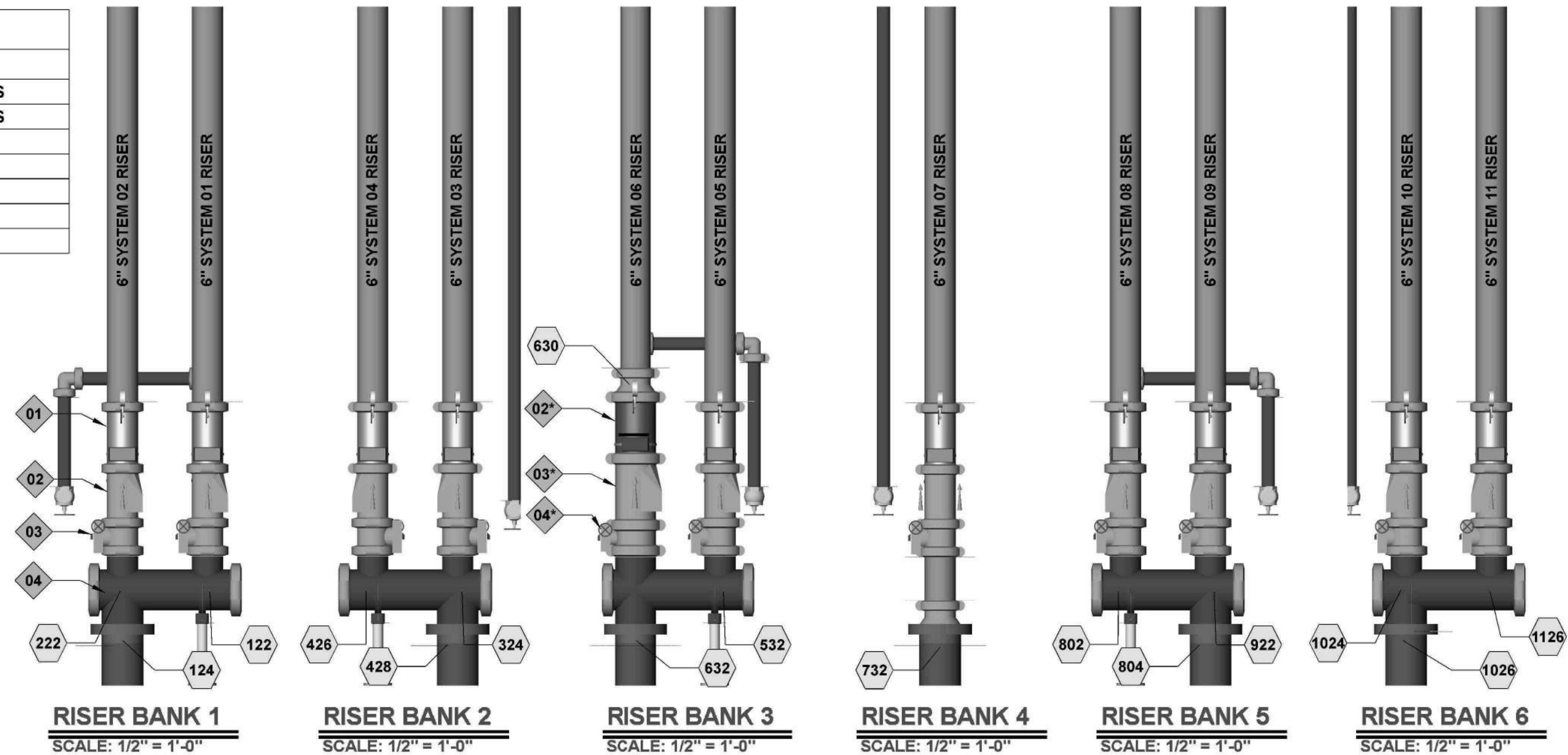
AIR VENT
SEE FP0.0 FOR DETAIL





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

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



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

NFPA 20 REQUIREMENTS:

EQUIPMENT PROTECTION:

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

PIPE AND FITTINGS:

WHERE CORROSIVE CONDITIONS EXIST, THE STEEL SUCTION PIPE SHALL BE GALVANIZED. ALL PROVISIONS FOR WELDED PIPE SHALL BE IN ACCORDANCE WITH NFPA 61B, 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:

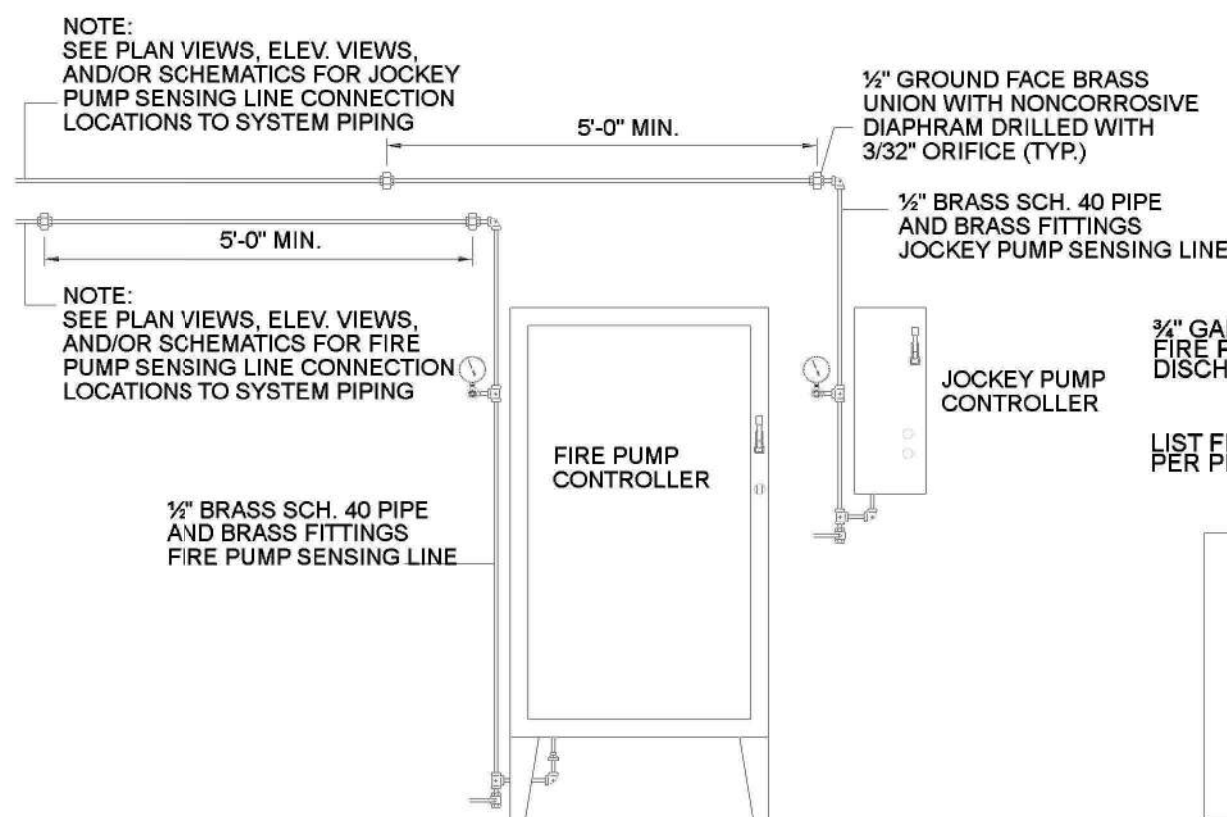
SHALL BE HYDROSTATICALLY TESTED IN ACCORDANCE WITH NFPA 13. THE SIZE OF THE PUMP DISCHARGE PIPE AND FITTINGS SHALL BE NOT LESS THAN THAT GIVEN IN NFPA 20.

ELECTRIC DRIVE FOR PUMPS:

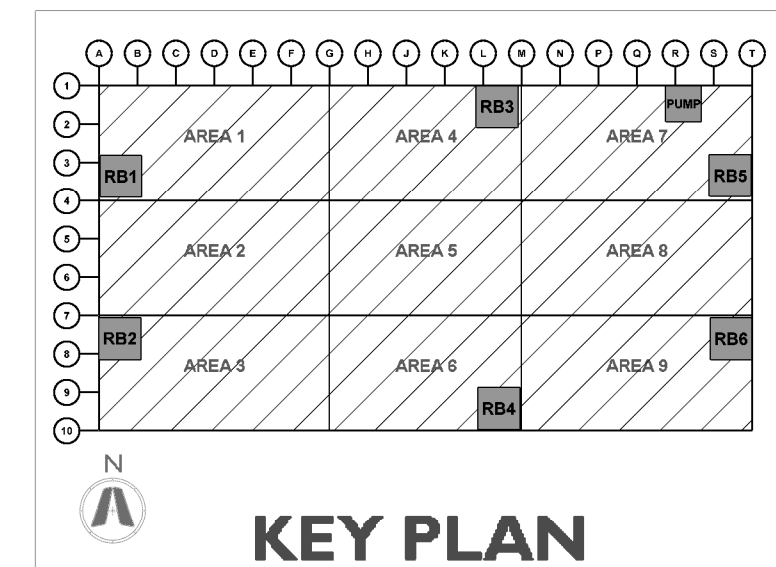
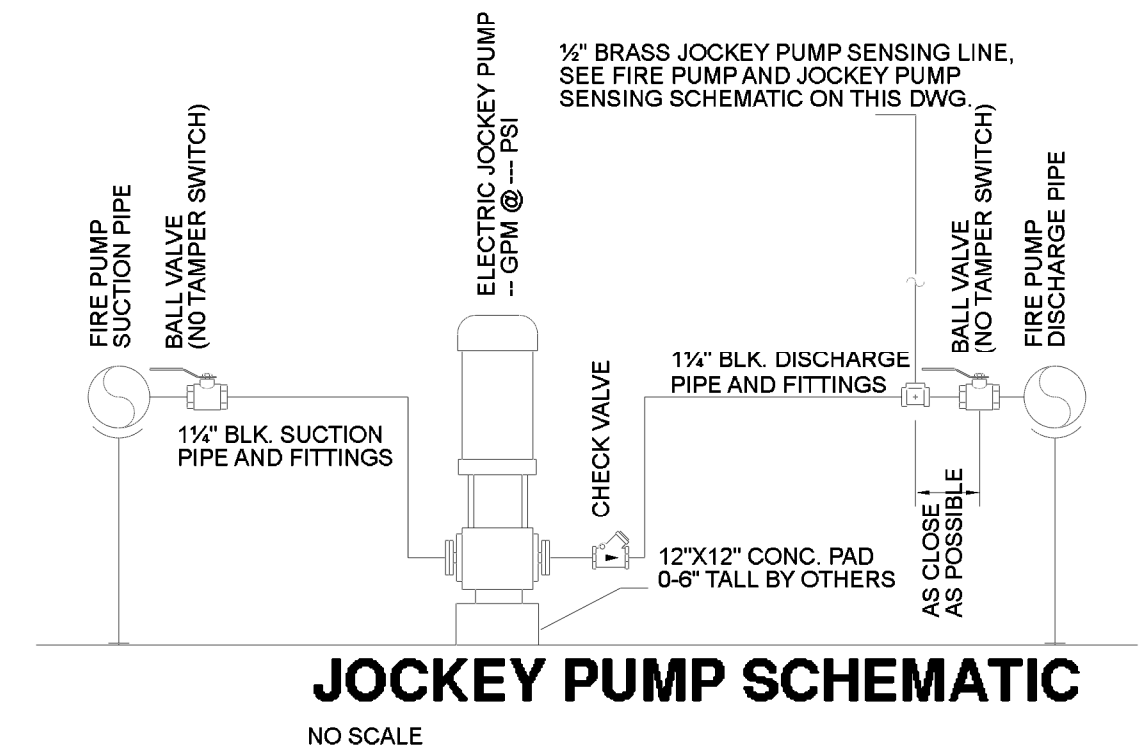
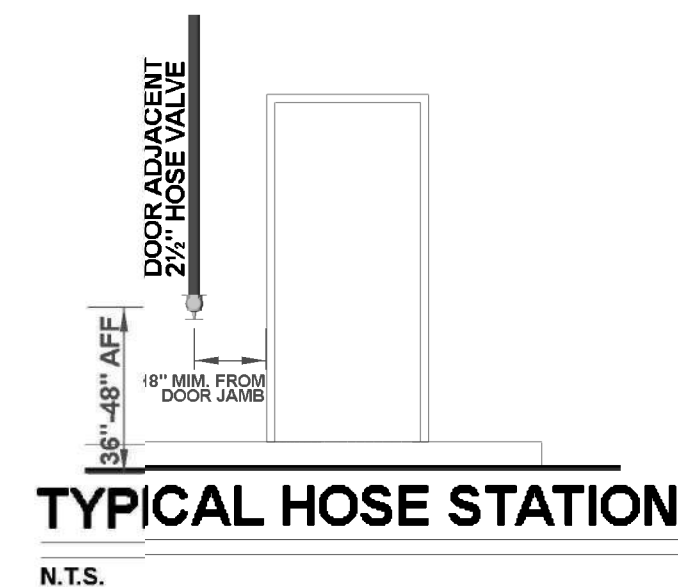
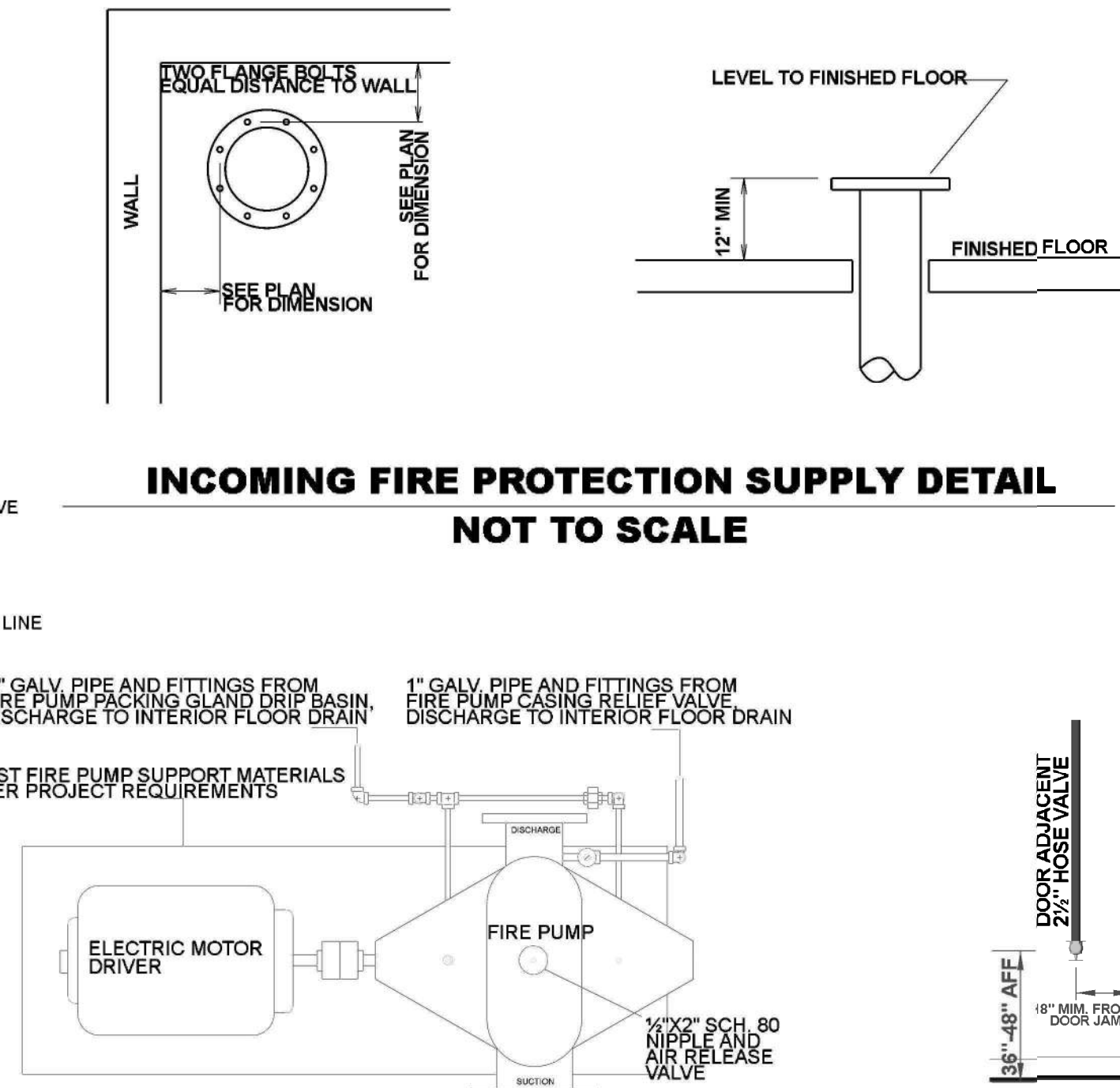
ALL ELECTRICAL WORK TO SUPPLY POWER TO THE FIRE PUMP SHALL BE IN ACCORDANCE WITH CHAPTER 6 OF NFPA 20. ELECTRICAL WORK SHALL COMPLY WITH NFPA 70, ARTICLE 695 AND OTHER APPLICABLE ARTICLES. THE FIRE PUMP FEEDER CIRCUIT CONDUCTORS AND THEIR ACCESSORIES SHALL BE DEDICATED AND PROTECTED TO RESIST POSSIBLE 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.



INCOMING FIRE PROTECTION SUPPLY DETAIL
NOT TO SCALE





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Michael D. Knapp, P.E. • 636.734.2348
michael@knappengineering.net
89 Beringer Court, St. Charles, MO 63304

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Fax • 314-892-6555

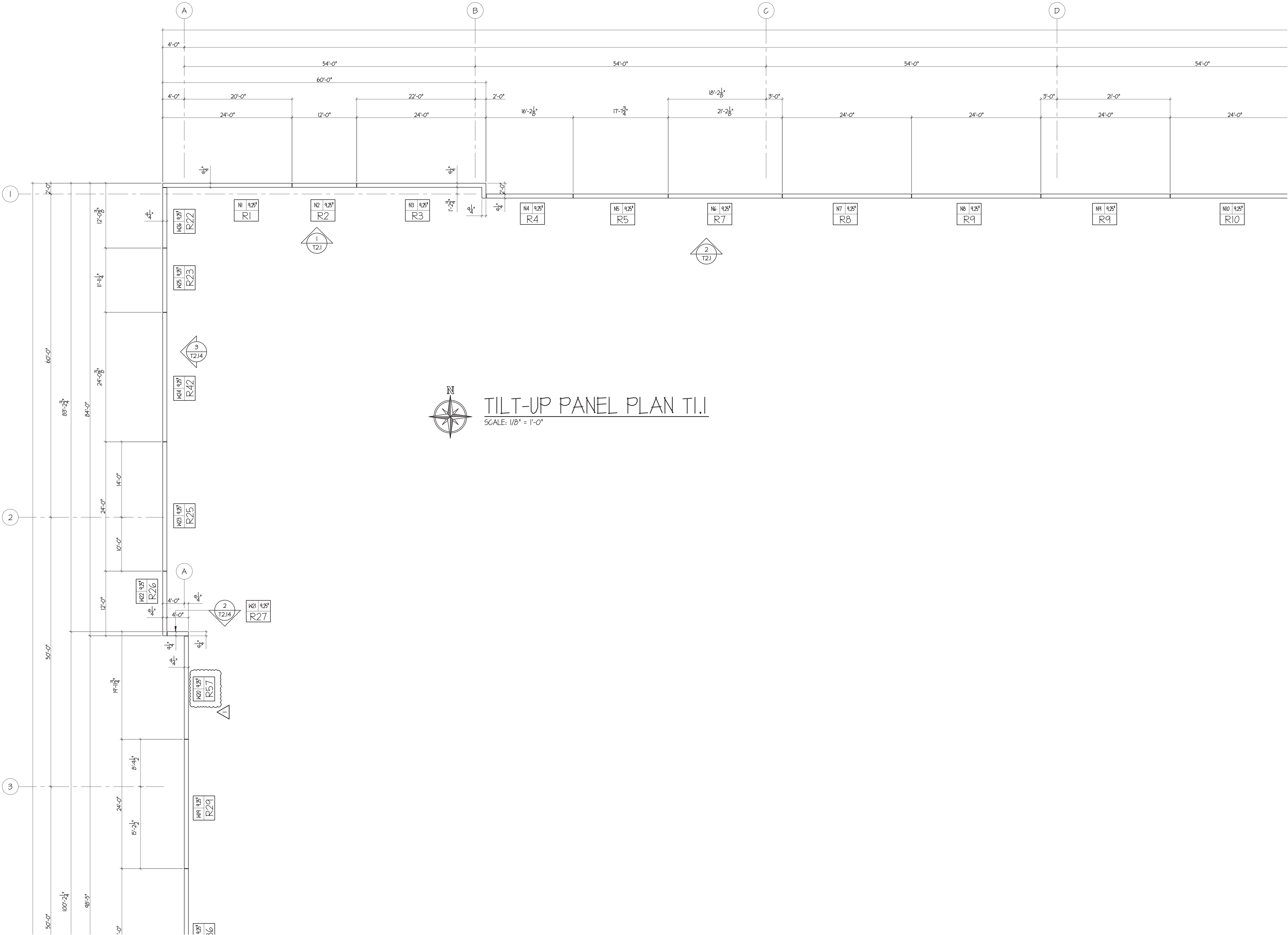
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Building A Lot 1
NW Corner of NE Tudor Rd. & Main St.
Lee's Summit, MO 64086

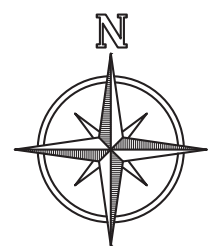
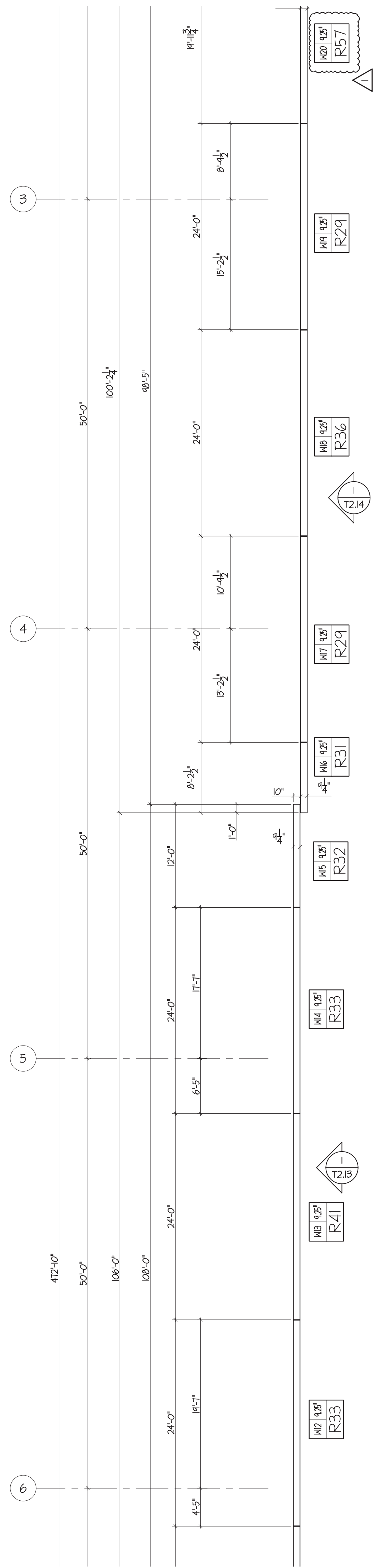
ISSUE TYPE	ISSUE DATE
FOR REVIEW AND APPROVAL	2022-05-16
FIELD USE	2022-06-09
REVISION 1	2022-06-27

SHEET NO.:

T1.1

FIELD USE 2022-06-09






TILT-UP PANEL PLAN TI.2

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

FIELD USE 2022-06-09

Lee's Summit Logistics
Building A Lot 1
NW Corner of NE Tudor Rd. & Main St.
Lee's Summit, MO 64086

ISSUE TYPE	ISSUE DATE
FOR REVIEW AND APPROVAL	2022-05-1
FIELD USE	2022-06-0
REVISION 1 	2022-06-2

SHEET NO:

T1.2



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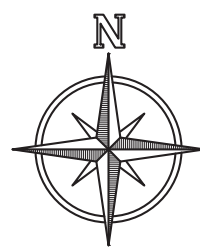
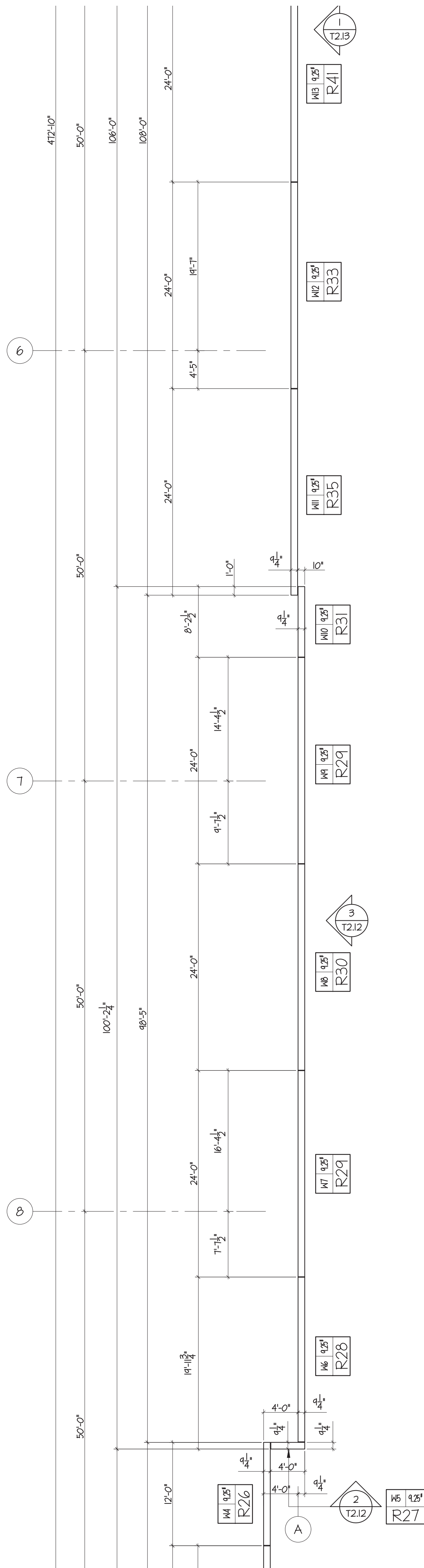
Lee's Summit Logistics
Building A Lot 1
NW Corner of NE Tudor Rd. & Main St.
Lee's Summit, MO 64086

ISSUE TYPE	ISSUE DATE
FOR REVIEW AND APPROVAL	2022-05-1
FIELD USE	2022-06-0
REVISION 1 	2022-06-2

SHEET NO:

T1.3

FIELD USE 2022-06-09



TILT-UP PANEL PLAN T1.3



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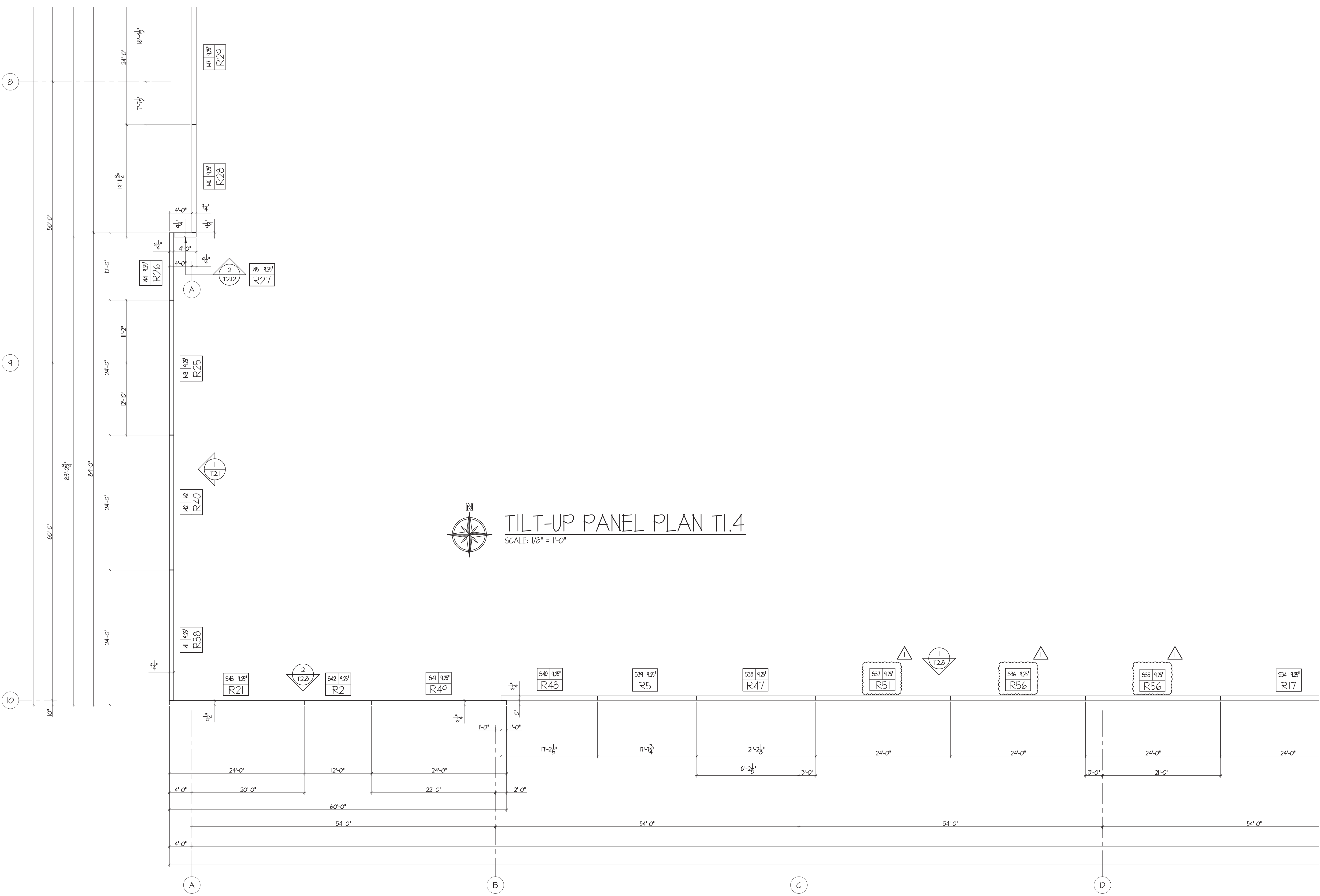
Lee's Summit Logistics
Building A Lot 1
NW Corner of NE Tudor Rd. & Main St.
Lee's Summit, MO 64086

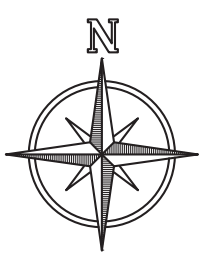
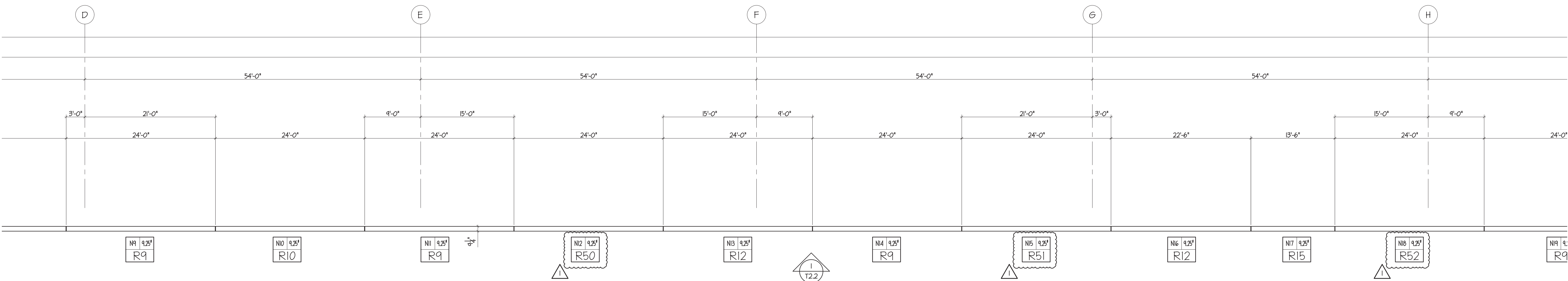
ISSUE TYPE	ISSUE DATE
FOR REVIEW AND APPROVAL	2022-05-16
FIELD USE	2022-06-09
REVISION 1	2022-06-27

SHEET NO.:

T1.4

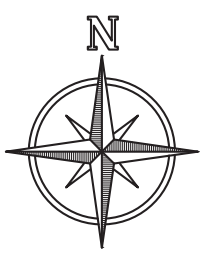
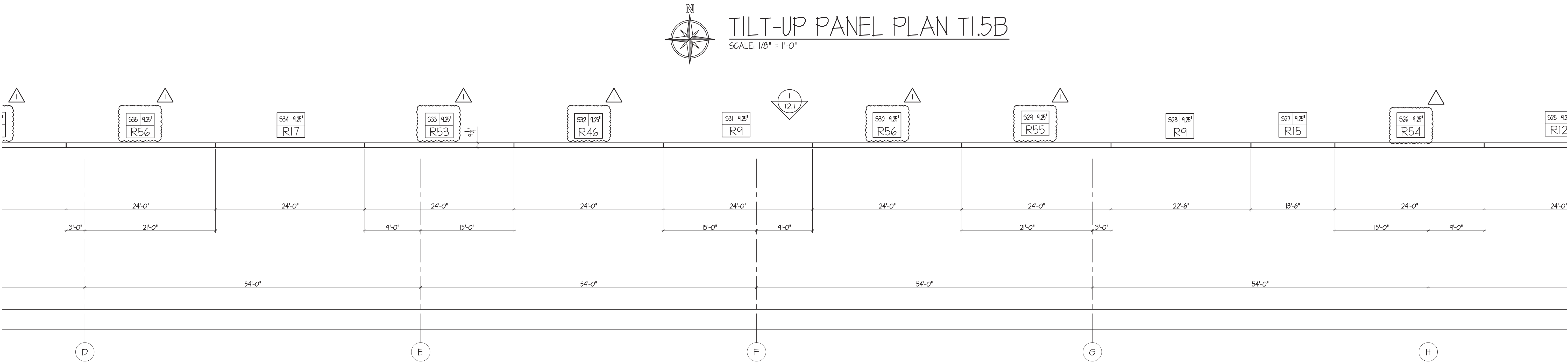
FIELD USE 2022-06-09





TILT-UP PANEL PLAN TI.5A

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



TILT-UP PANEL PLAN TI.5B

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

FIELD USE 2022-06-09



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Lee's Summit, MO 64086

ISSUE TYPE	ISSUE DATE
FOR REVIEW AND APPROVAL	2022-05-16
FIELD USE	2022-06-09
REVISION 1	2022-06-27

SHEET NO:

T1.5



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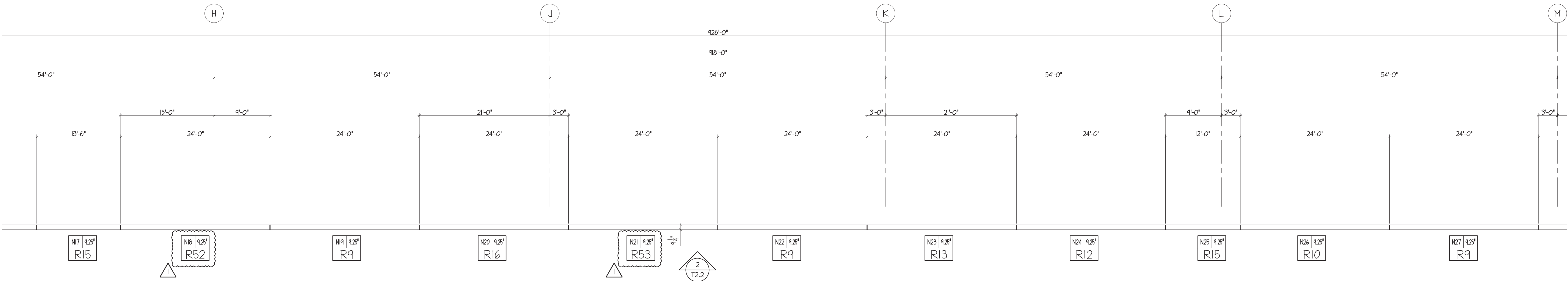
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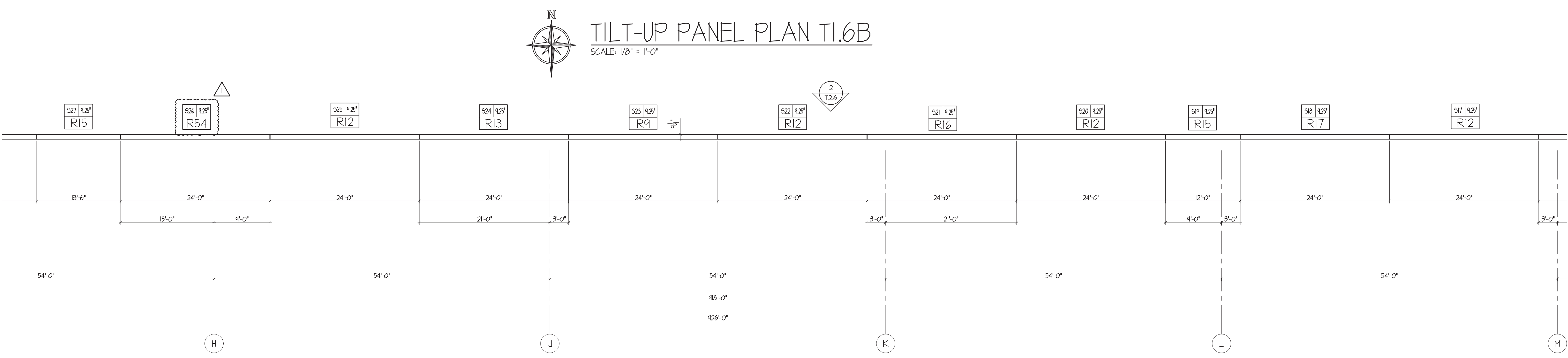
ISSUE TYPE	ISSUE DATE
FOR REVIEW AND APPROVAL	2022-05-16
FIELD USE	2022-06-09
REVISION 1	2022-06-27

SHEET NO:
T1.6

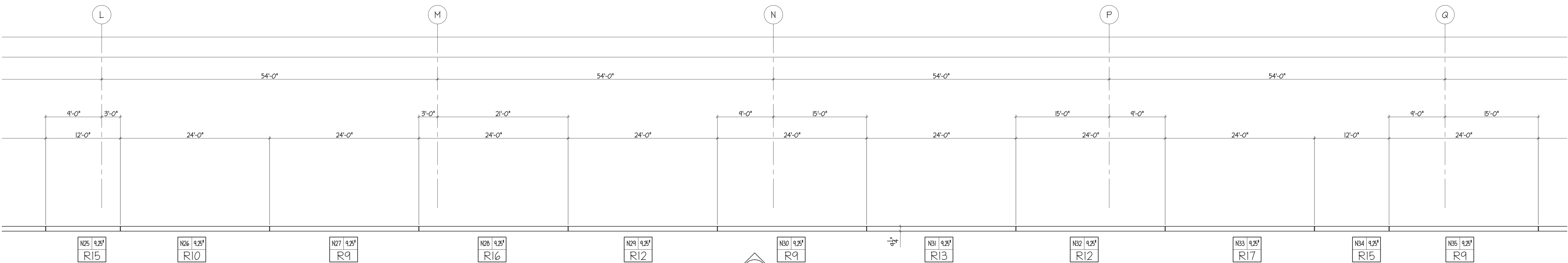
FIELD USE 2022-06-09



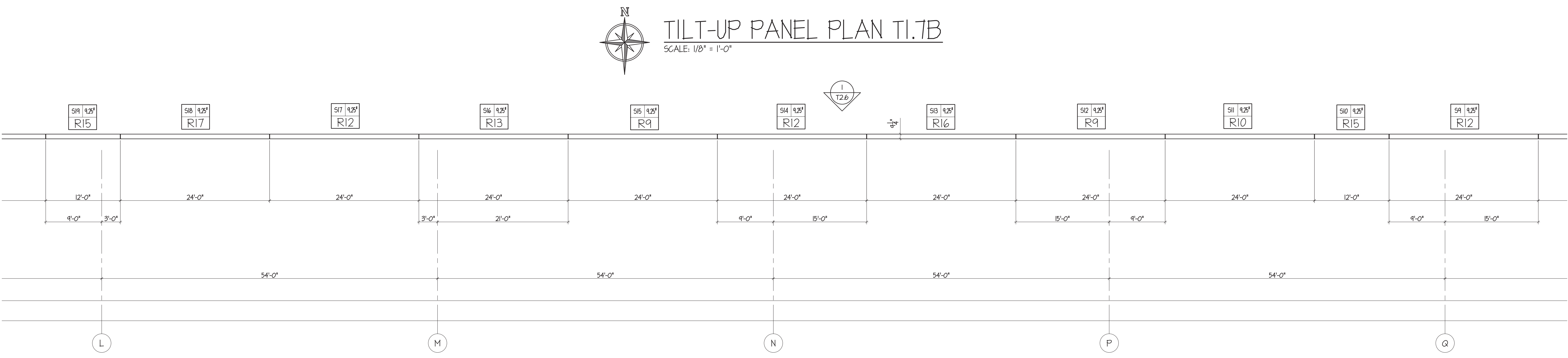
TILT-UP PANEL PLAN TI.6A
SCALE: 1/8" = 1'-0"



TILT-UP PANEL PLAN TI.6B
SCALE: 1/8" = 1'-0"



TILT-UP PANEL PLAN TI.7A
SCALE: 1/8" = 1'-0"



TILT-UP PANEL PLAN TI.7B
SCALE: 1/8" = 1'-0"



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ISSUE TYPE	ISSUE DATE
FOR REVIEW AND APPROVAL	2022-05-16
FIELD USE	2022-06-09
REVISION 1	2022-06-27

SHEET NO:
T1.7

FIELD USE 2022-06-09

ISSUE TYPE	ISSUE DATE
FOR REVIEW AND APPROVAL	2022-05-16
FIELD USE	2022-06-09
REVISION 1 	2022-06-27

T1.8

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





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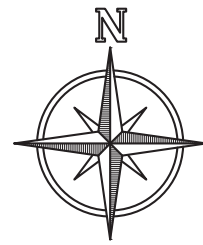
Lee's Summit Logistics
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ISSUE TYPE	ISSUE DATE
FOR REVIEW AND APPROVAL	2022-05-16
FIELD USE	2022-06-09
REVISION 1	2022-06-27

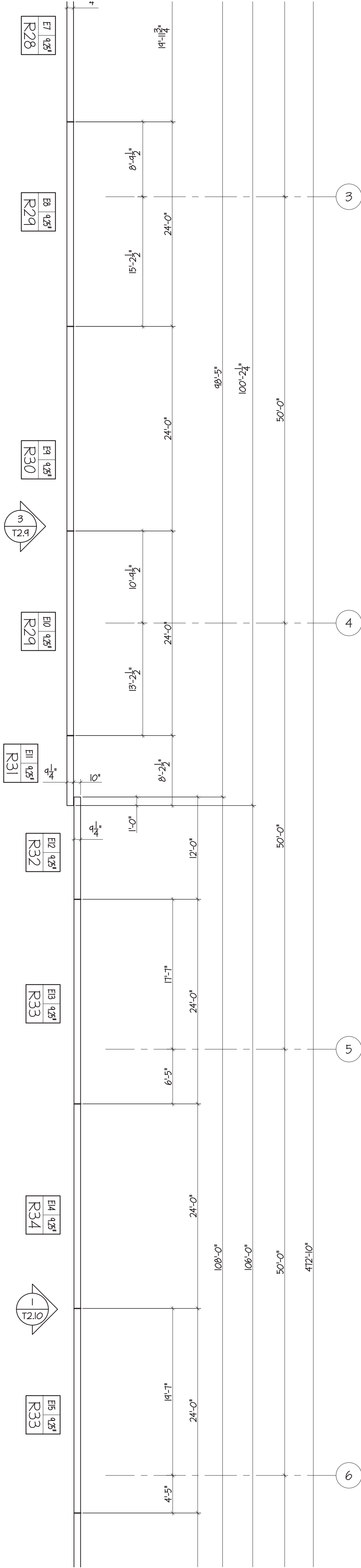
SHEET NO:

T1.9

FIELD USE 2022-06-09



TILT-UP PANEL PLAN T1.9
SCALE: 1/8" = 1'-0"





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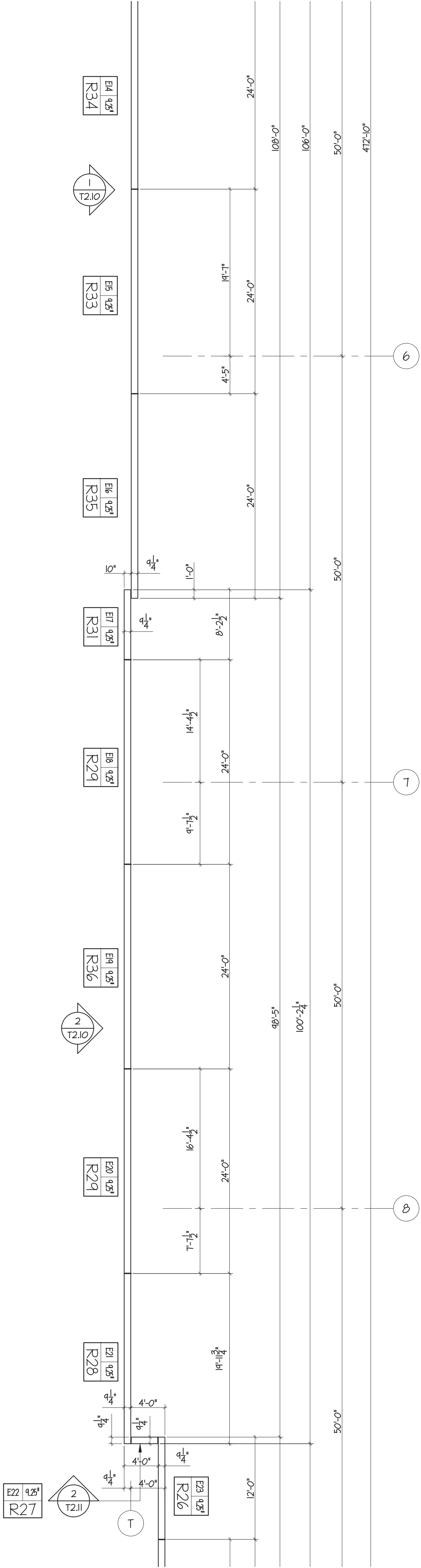
Lee's Summit Logistics
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ISSUE TYPE	ISSUE DATE
FOR REVIEW AND APPROVAL	2022-05-16
FIELD USE	2022-06-09
REVISION 1	2022-06-27

SHEET NO:

T1.10

FIELD USE 2022-06-09



TILT-UP PANEL PLAN T1.10
SCALE: 1/8" = 1'-0"



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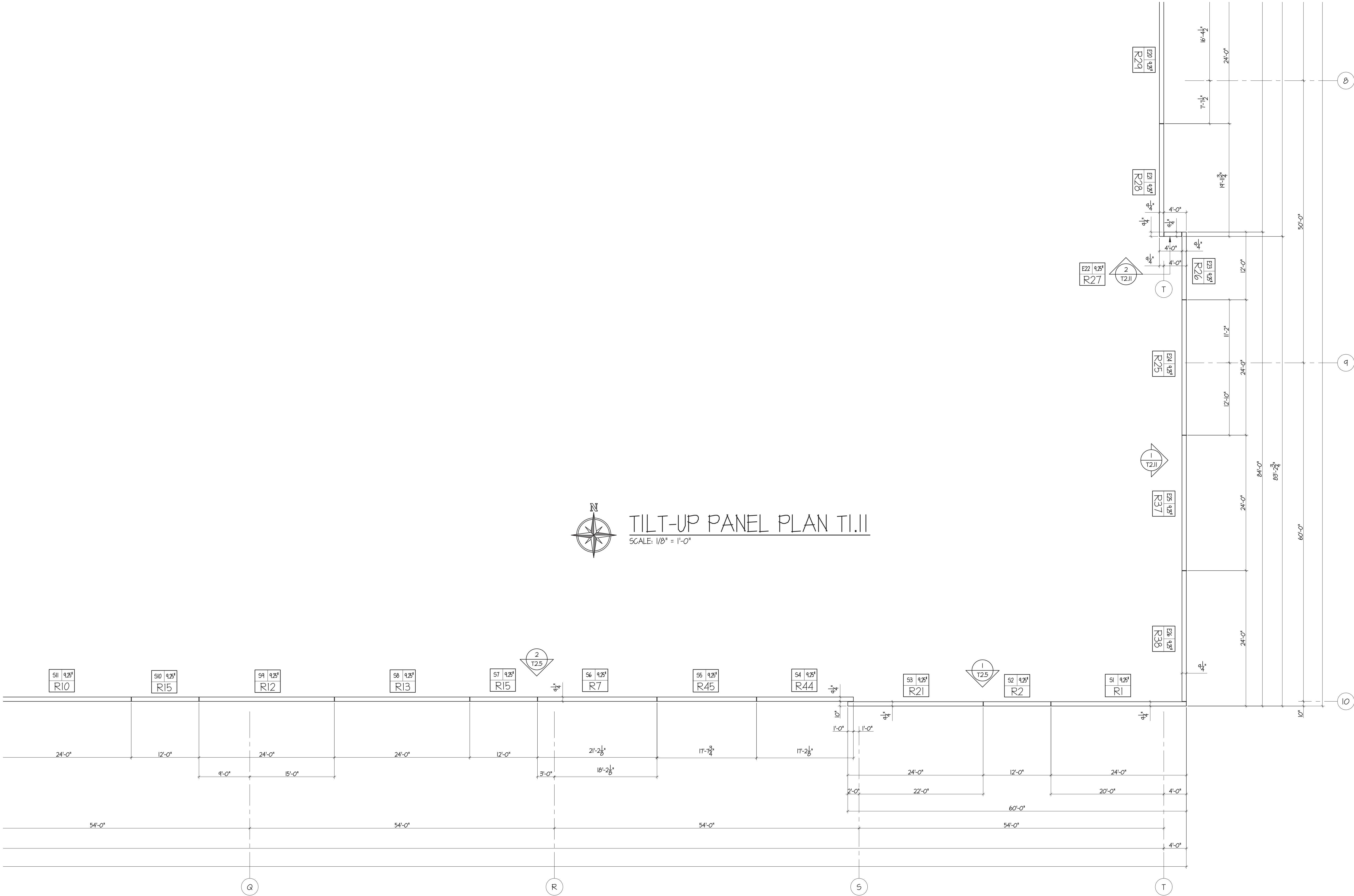
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Building A Lot 1
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Lee's Summit, MO 64086

ISSUE TYPE	ISSUE DATE
FOR REVIEW AND APPROVAL	2022-05-16
FIELD USE	2022-06-09
REVISION 1	2022-06-27

SHEET NO:

T1.11

FIELD USE 2022-06-09





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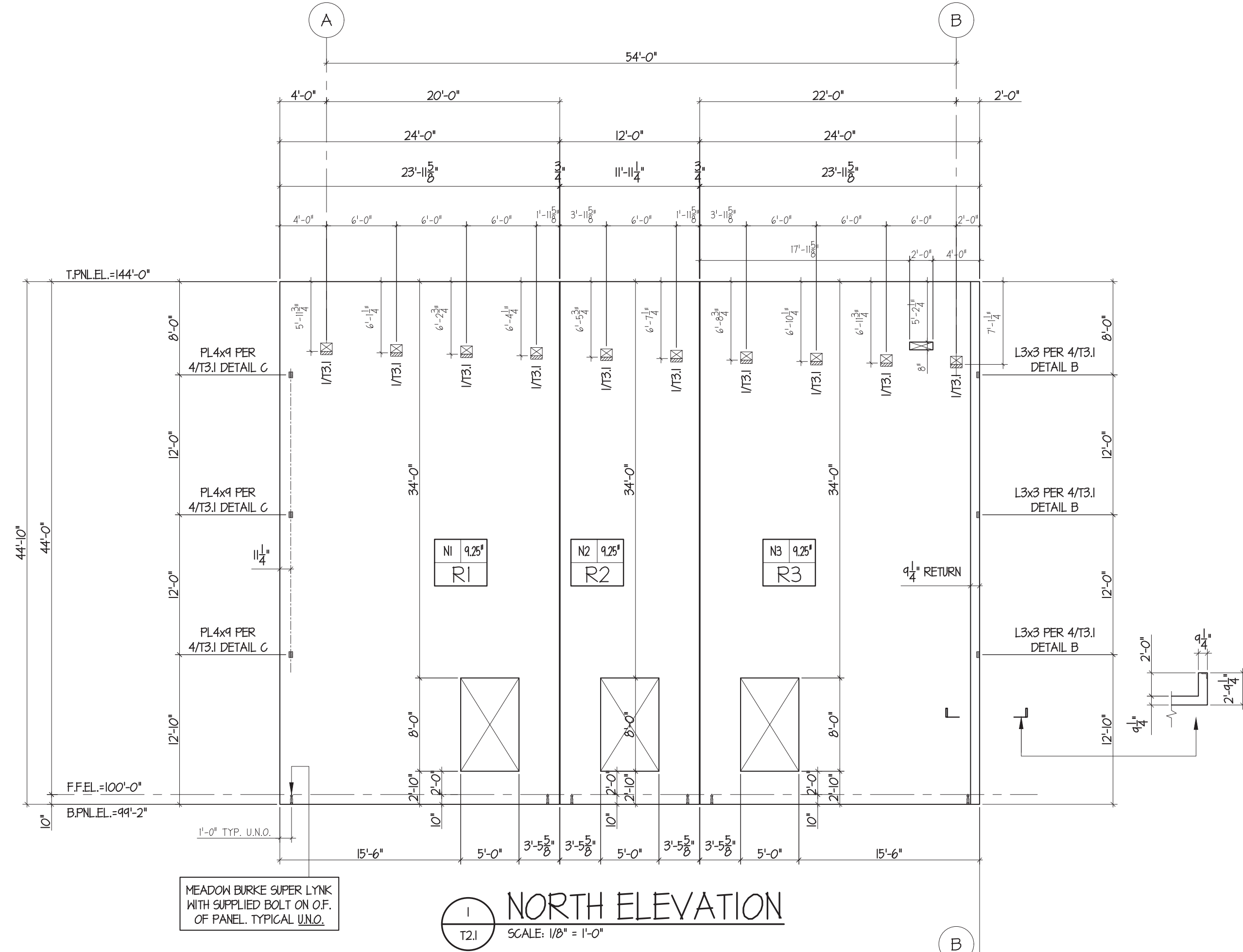
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Lee's Summit, MO 64086

ISSUE TYPE	ISSUE DATE
FOR REVIEW AND APPROVAL	2022-05-16
FIELD USE	2022-06-09
REVISION 1	2022-06-27

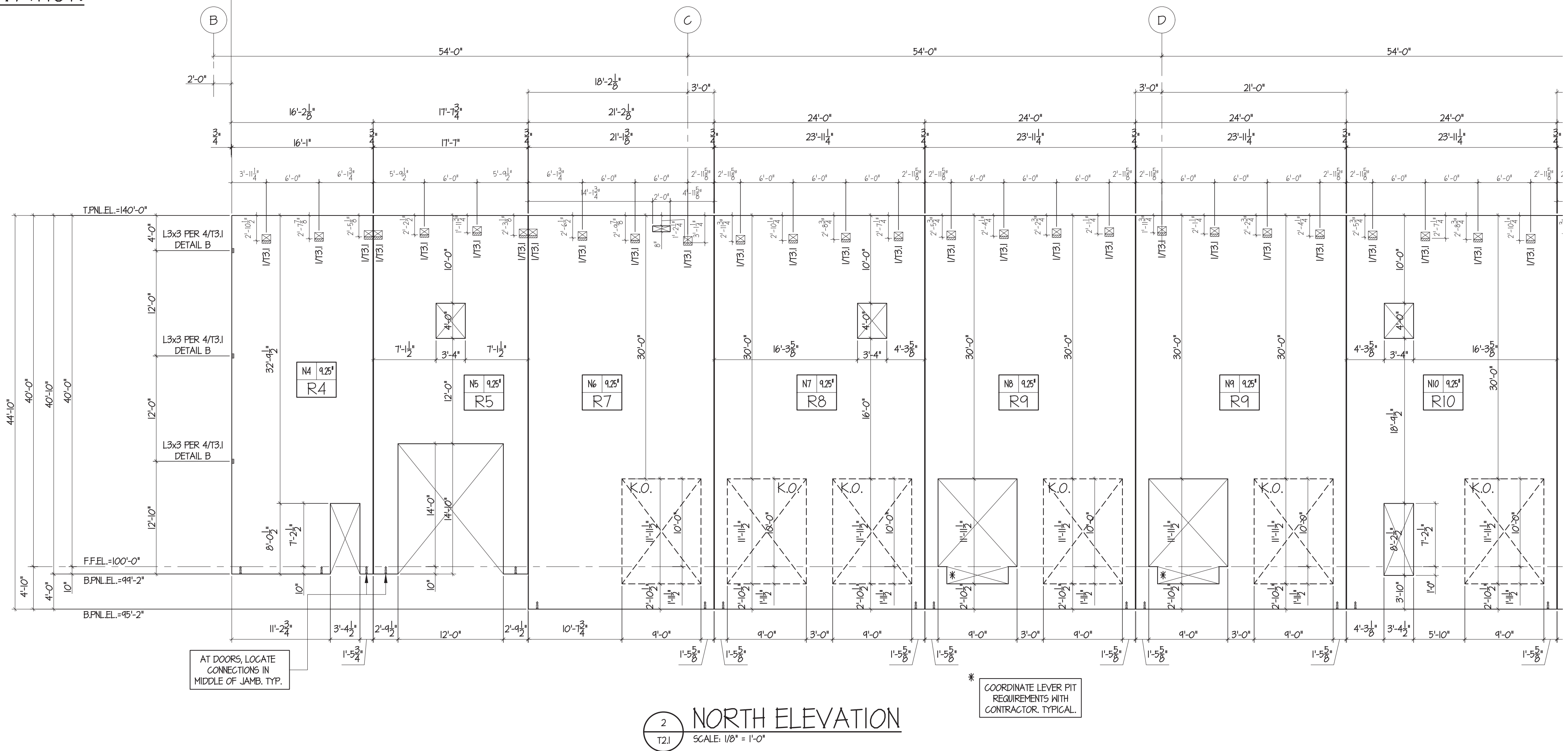
SHEET NO:

T2.1

FIELD USE 2022-06-09



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



2 NORTH ELEVATION
SCALE: 1/8" = 1'-0"



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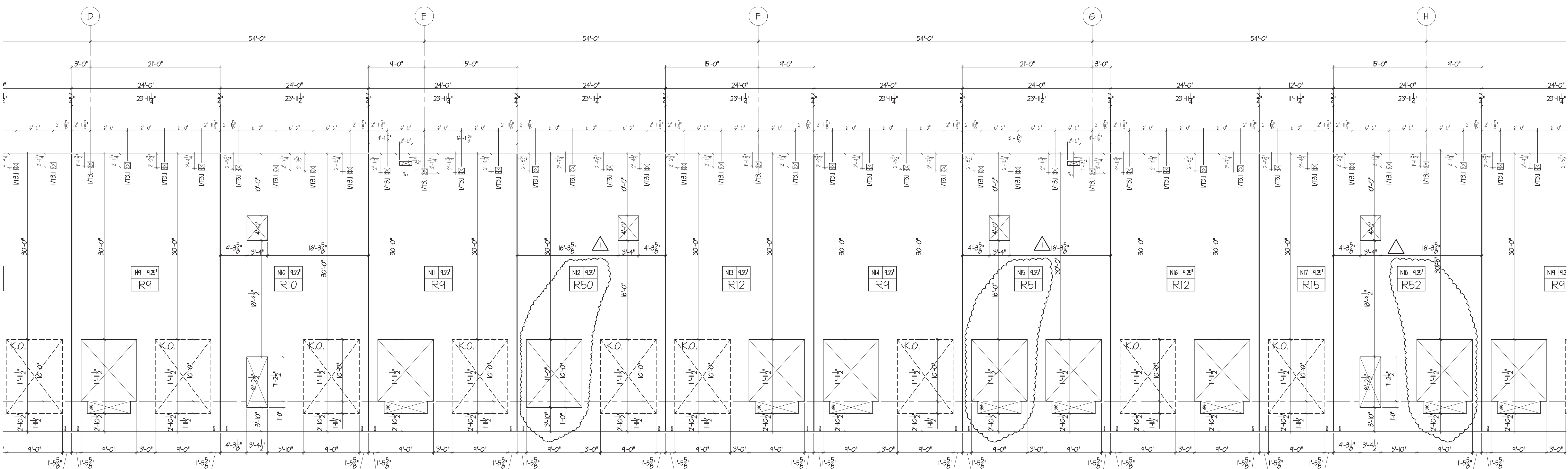
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Building A Lot 1
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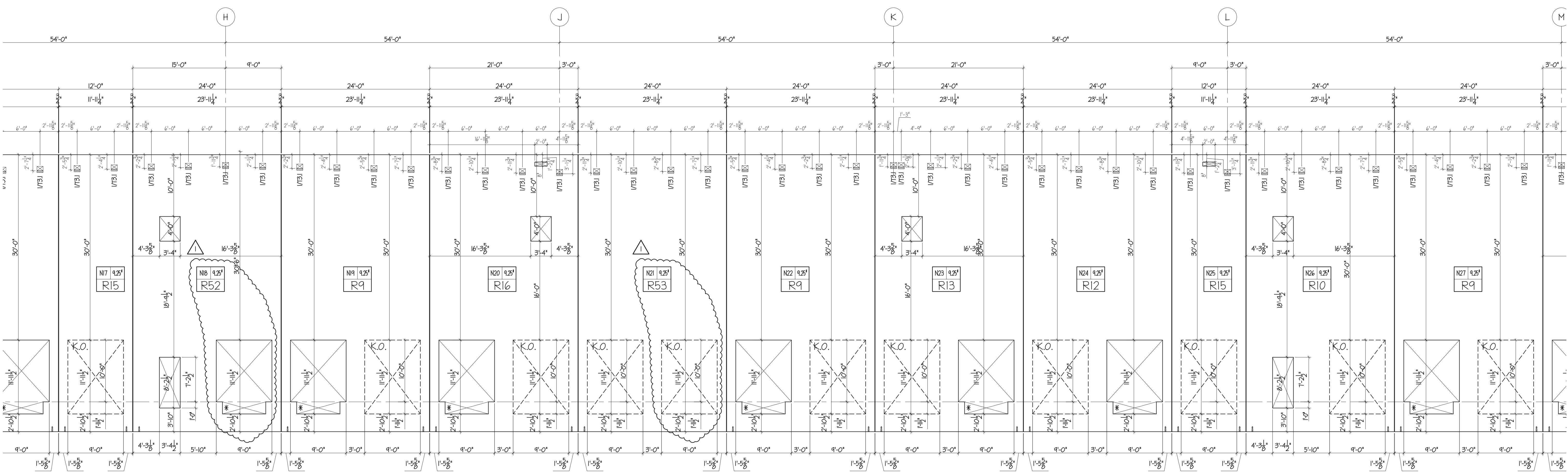
ISSUE TYPE	ISSUE DATE
FOR REVIEW AND APPROVAL	2022-05-16
FIELD USE	2022-06-09
REVISION 1	2022-06-27

SHEET NO:
T2.2

FIELD USE 2022-06-09



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



2 NORTH ELEVATION
SCALE: 1/8" = 1'-0"

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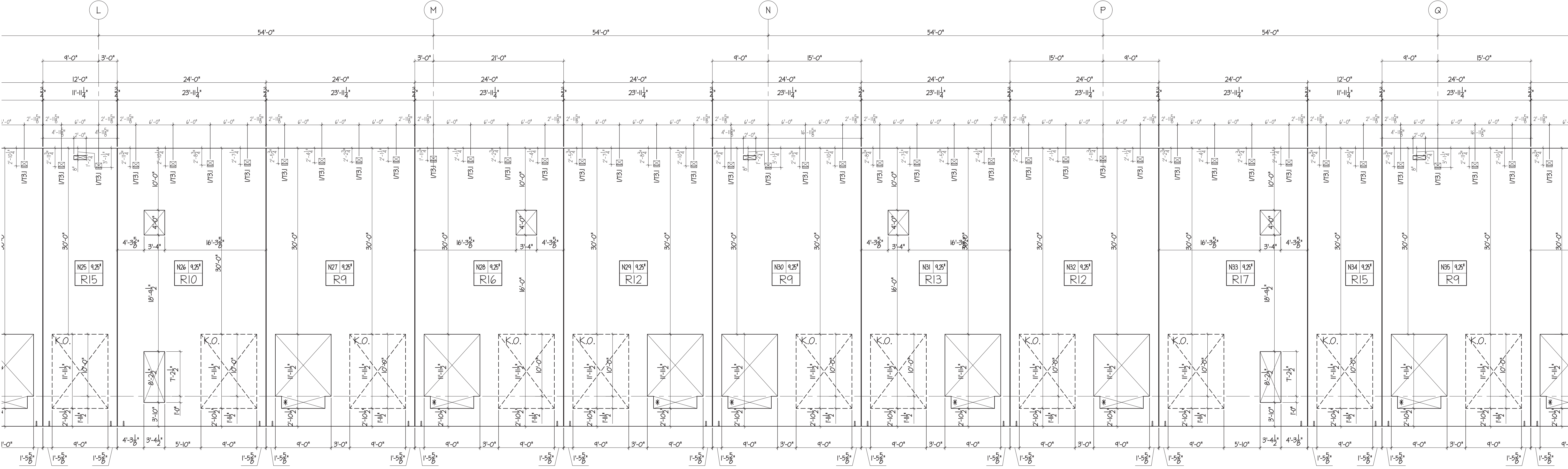
Lee's Summit Logistics
Building A Lot 1
NW Corner of NE Tudor Rd. & Main St.
Lee's Summit, MO 64086

ISSUE TYPE	ISSUE DATE
FOR REVIEW AND APPROVAL	2022-05-16
FIELD USE	2022-06-09
REVISION 1	2022-06-27

SHEET NO:

T2.3

FIELD USE 2022-06-09



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



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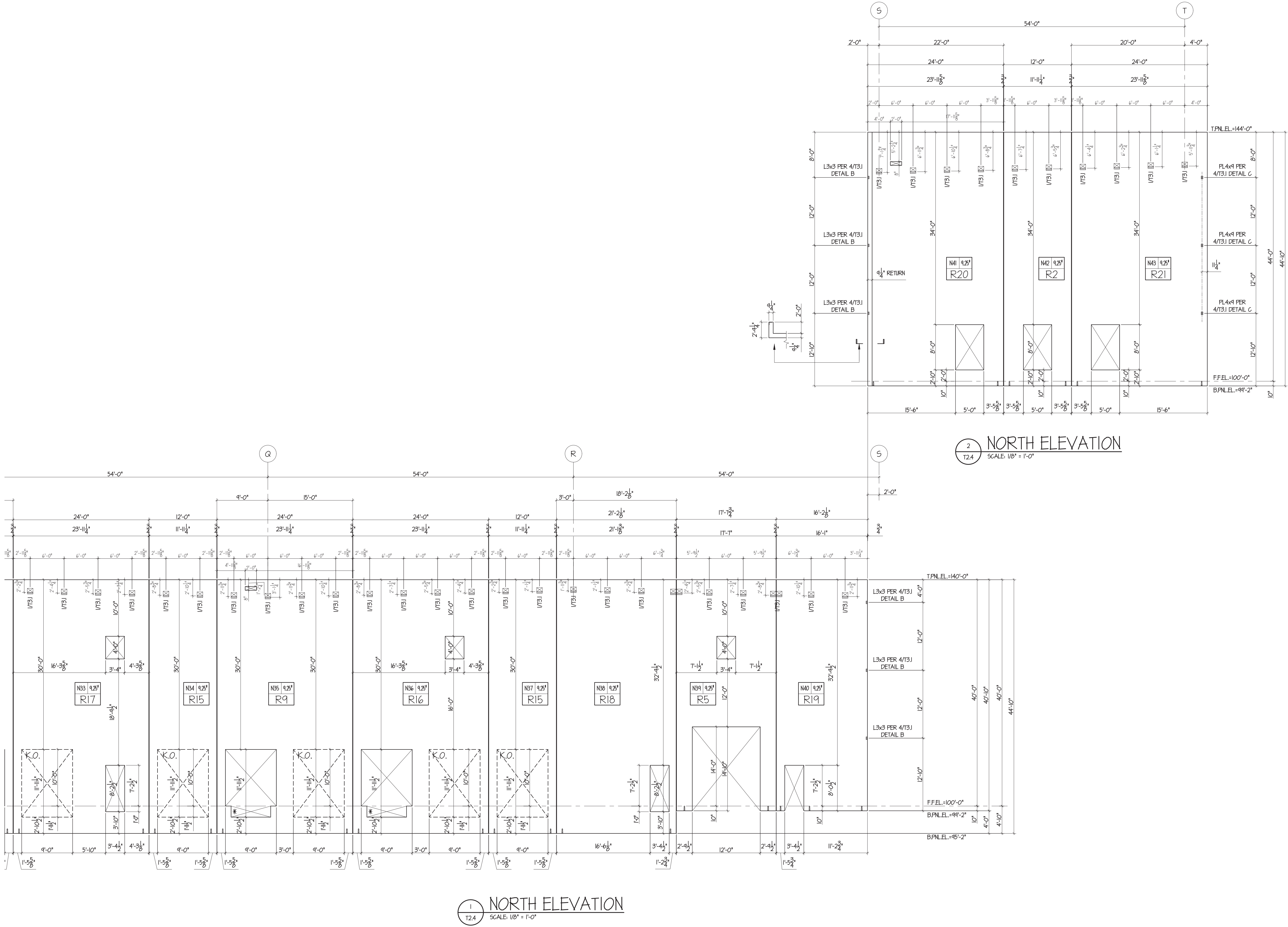
**Lee's Summit Logistics
Building A Lot 1**
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ISSUE TYPE	ISSUE DATE
FOR REVIEW AND APPROVAL	2022-05-16
FIELD USE	2022-06-09
REVISION 1	2022-06-27

SHEET NO:

T2.4


FIELD USE 2022-06-09



Lee's Summit Logistics

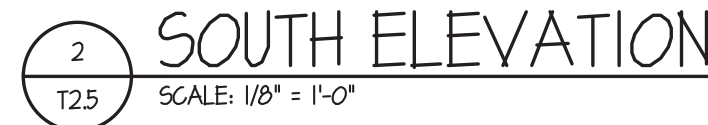
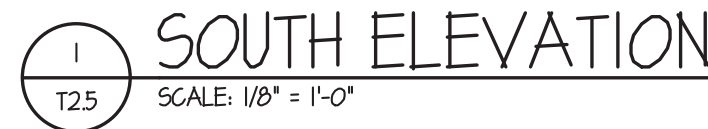
NW Corner of NE Tudor Rd. & Main St.

Lee's Summit, MO 64086

ISSUE TYPE	ISSUE DATE
FOR REVIEW AND APPROVAL	2022-05-16
FIELD USE	2022-06-09
REVISION 1 	2022-06-27

T2.5

FIELD USE 2022-06-09





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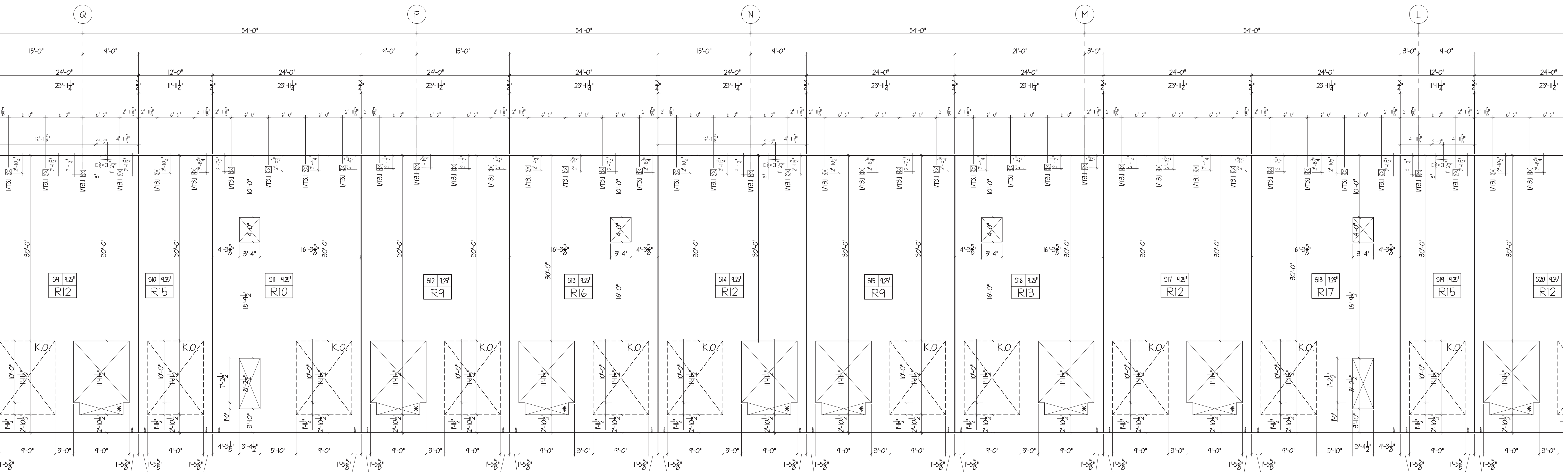
Lee's Summit Logistics
Building A Lot 1
NW Corner of NE Tudor Rd. & Main St.
Lee's Summit, MO 64086

ISSUE TYPE	ISSUE DATE
FOR REVIEW AND APPROVAL	2022-05-16
FIELD USE	2022-06-09
REVISION 1	2022-06-27

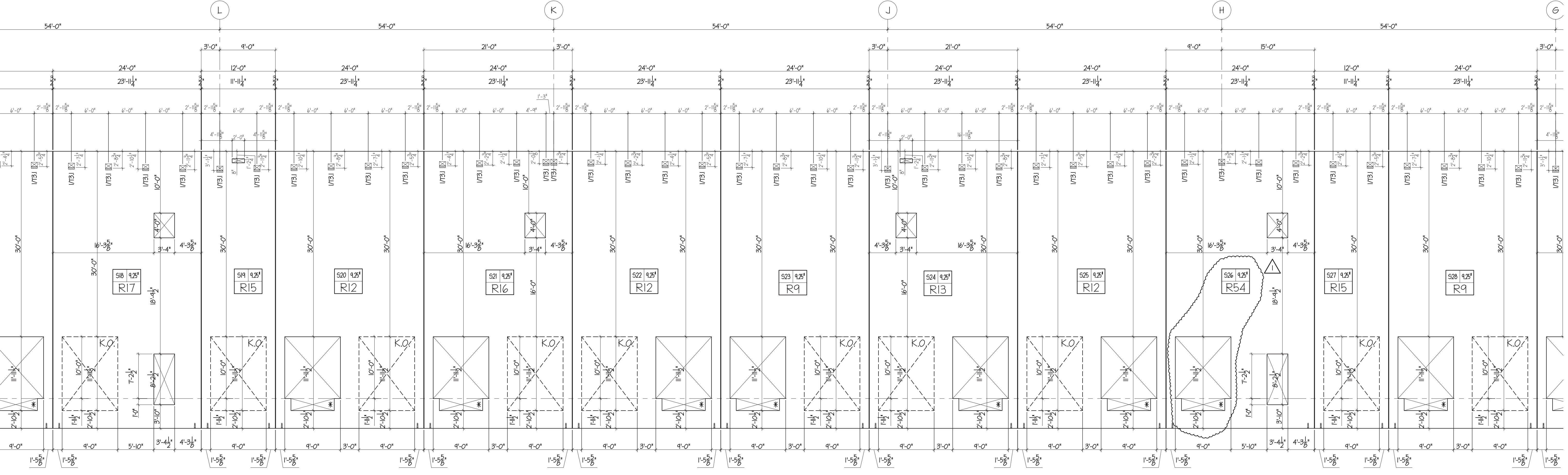
SHEET NO:

T2.6

FIELD USE 2022-06-09




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

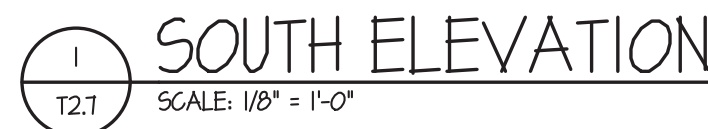


2 SOUTH ELEVATION
SCALE: 1/8" = 1'-0"

**Lee's Summit Logistics
Building A Lot 1**
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Lee's Summit, MO 64086

ISSUE TYPE	ISSUE DATE
FOR REVIEW AND APPROVAL	2022-05-10
FIELD USE	2022-04-09
REVISION 1 	2022-06-20

T2.7





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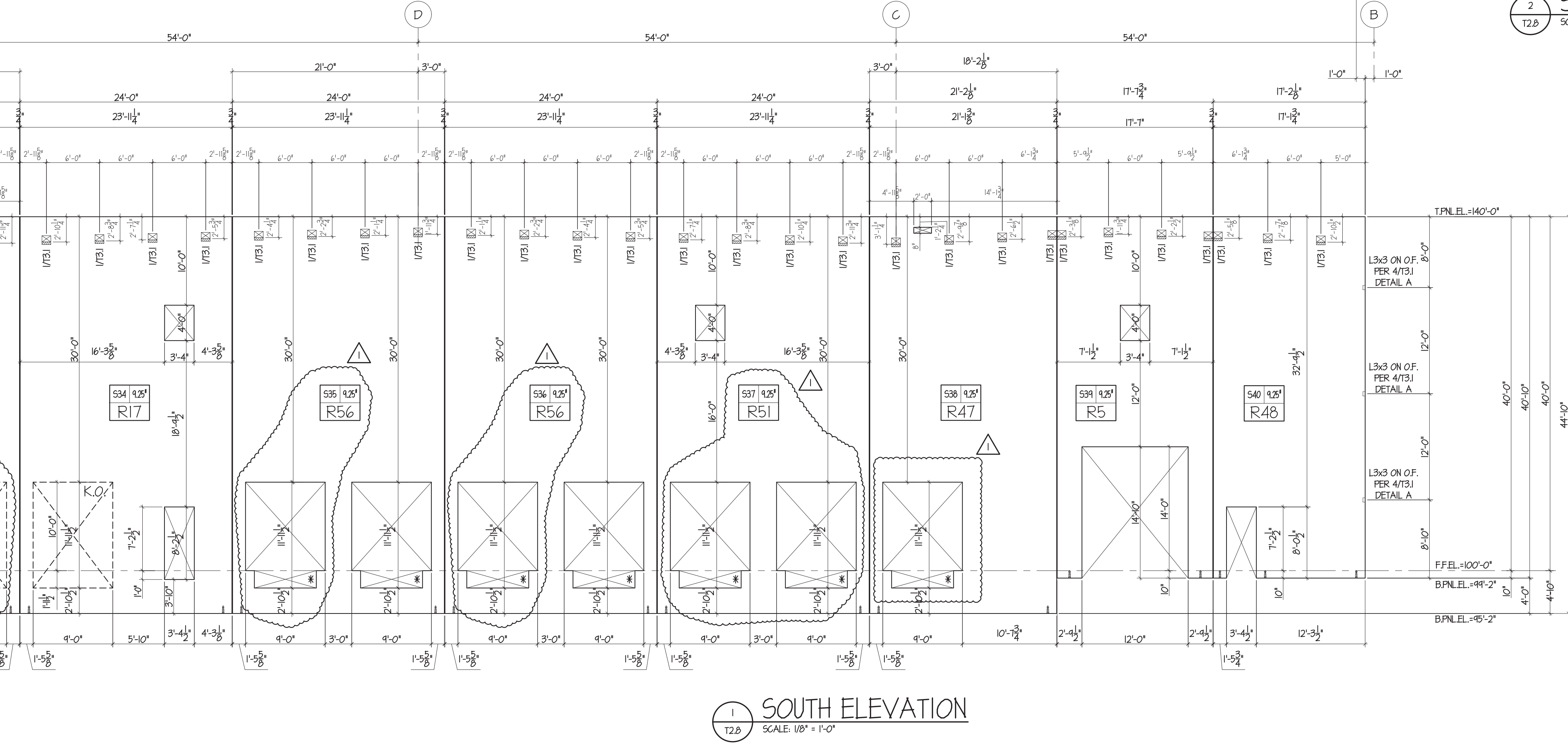
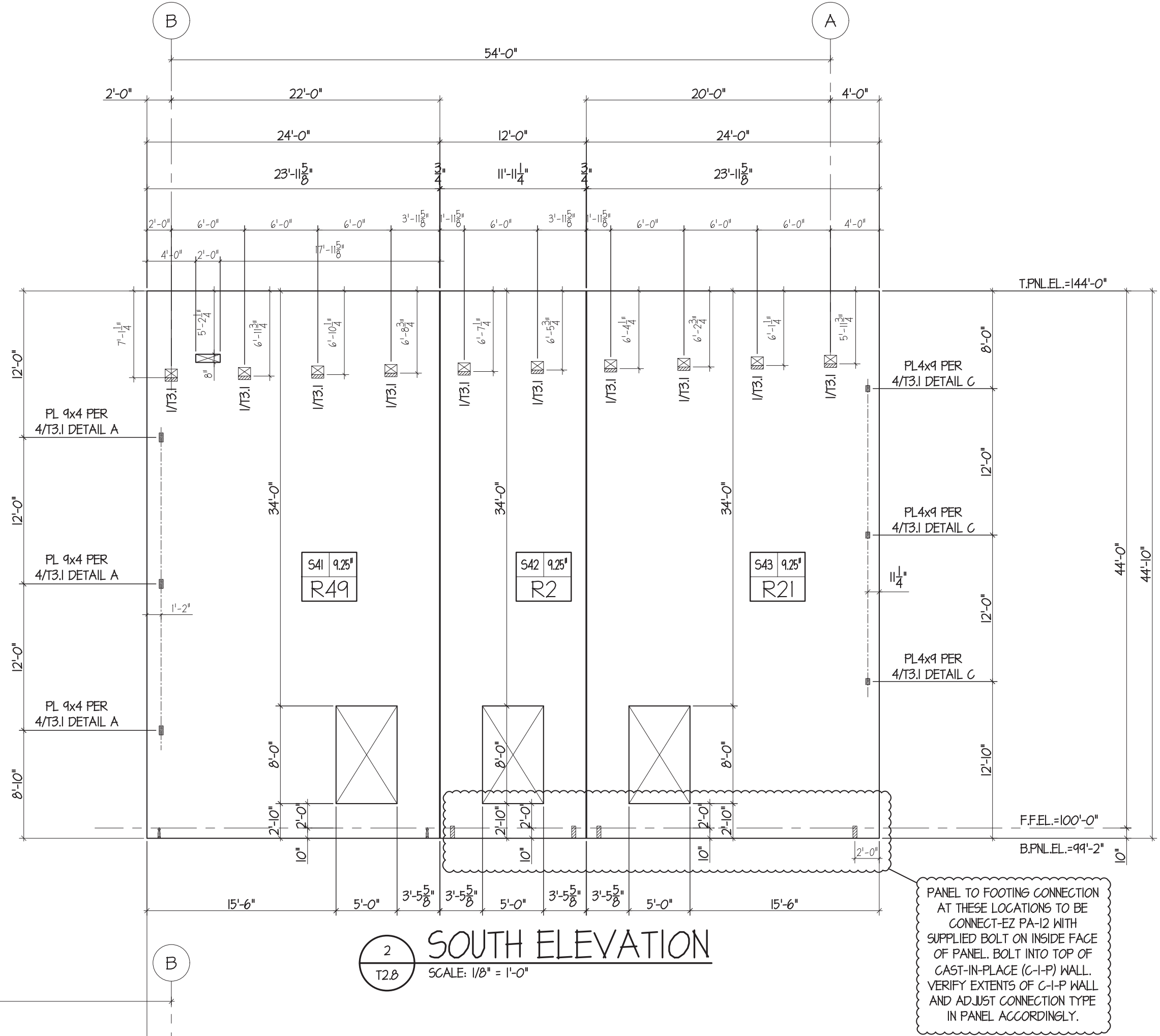
Lee's Summit Logistics
Building A Lot 1
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Lee's Summit, MO 64086

ISSUE TYPE	ISSUE DATE
FOR REVIEW AND APPROVAL	2022-05-16
FIELD USE	2022-06-09
REVISION 1	2022-06-27

SHEET NO:

T2.8

FIELD USE 2022-06-09





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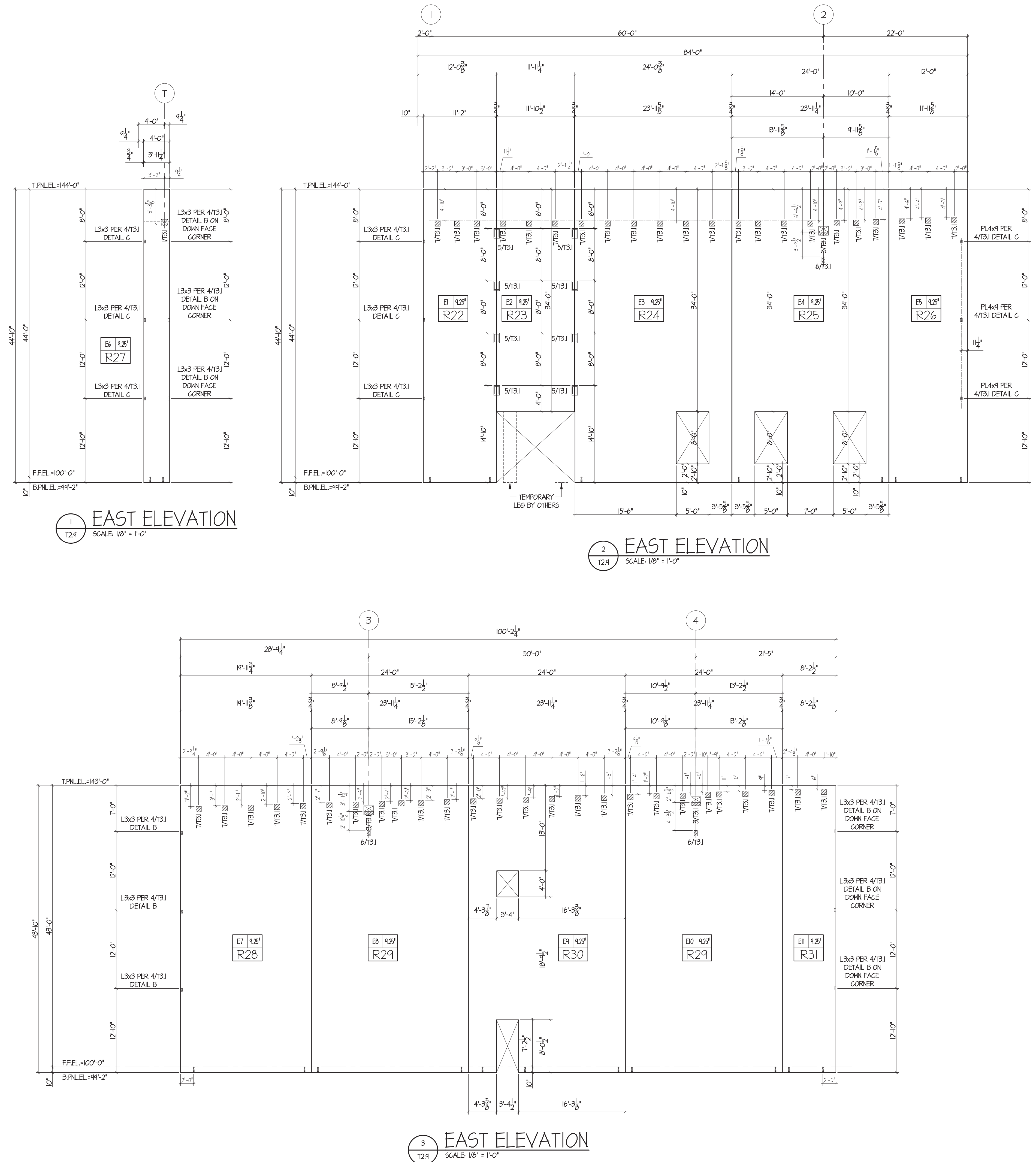
Lee's Summit Logistics
Building A Lot 1
NW Corner of NE Tudor Rd. & Main St.
Lee's Summit, MO 64086

ISSUE TYPE	ISSUE DATE
FOR REVIEW AND APPROVAL	2022-05-16
FIELD USE	2022-06-09
REVISION 1	2022-06-27


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T2.9

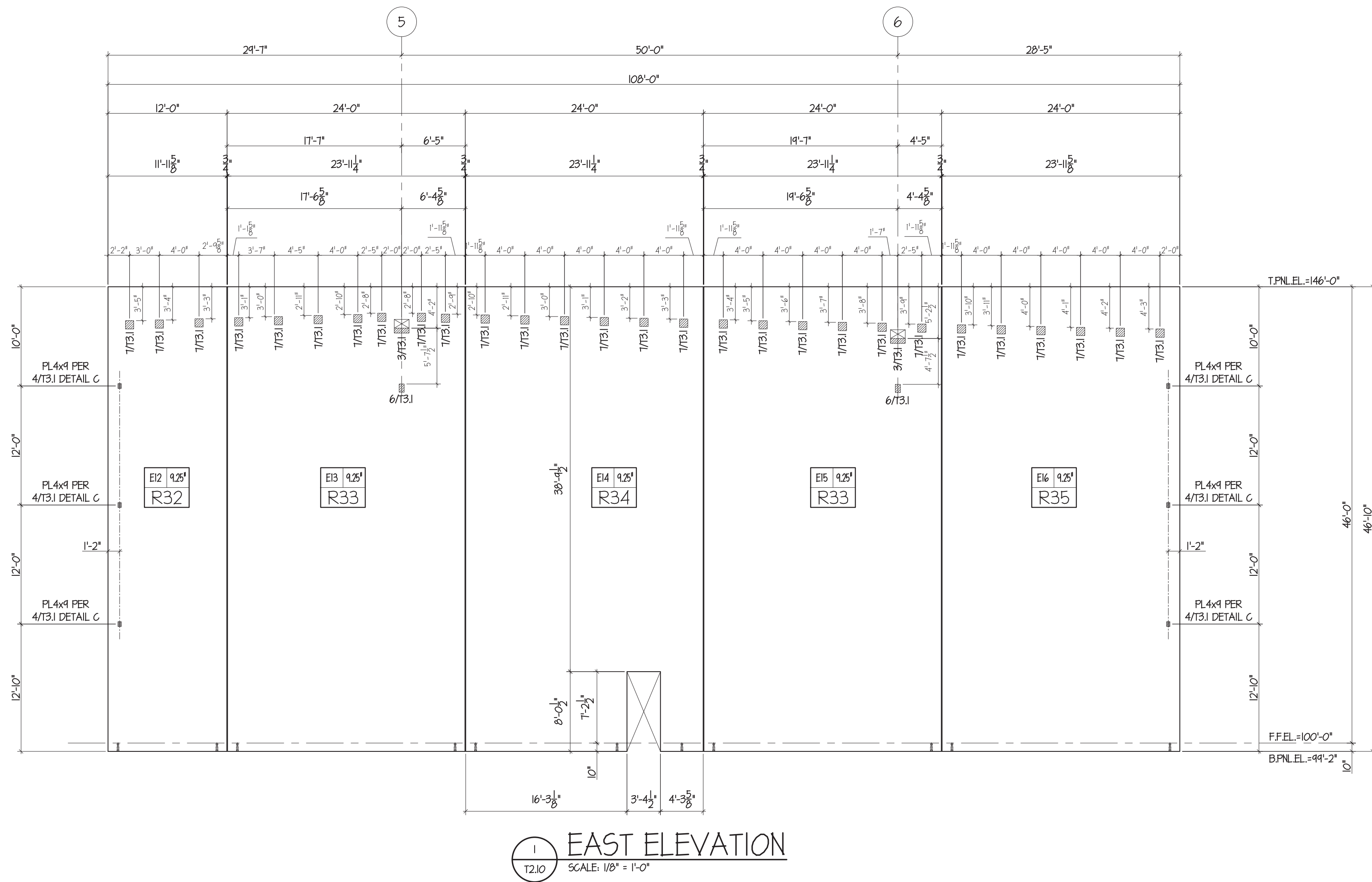
FIELD USE 2022-06-09



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Lee's Summit, MO 64086

ISSUE TYPE	ISSUE DATE
FOR REVIEW AND APPROVAL	2022-05-18
FIELD USE	2022-06-05
REVISION 1 	2022-06-27

T2.10





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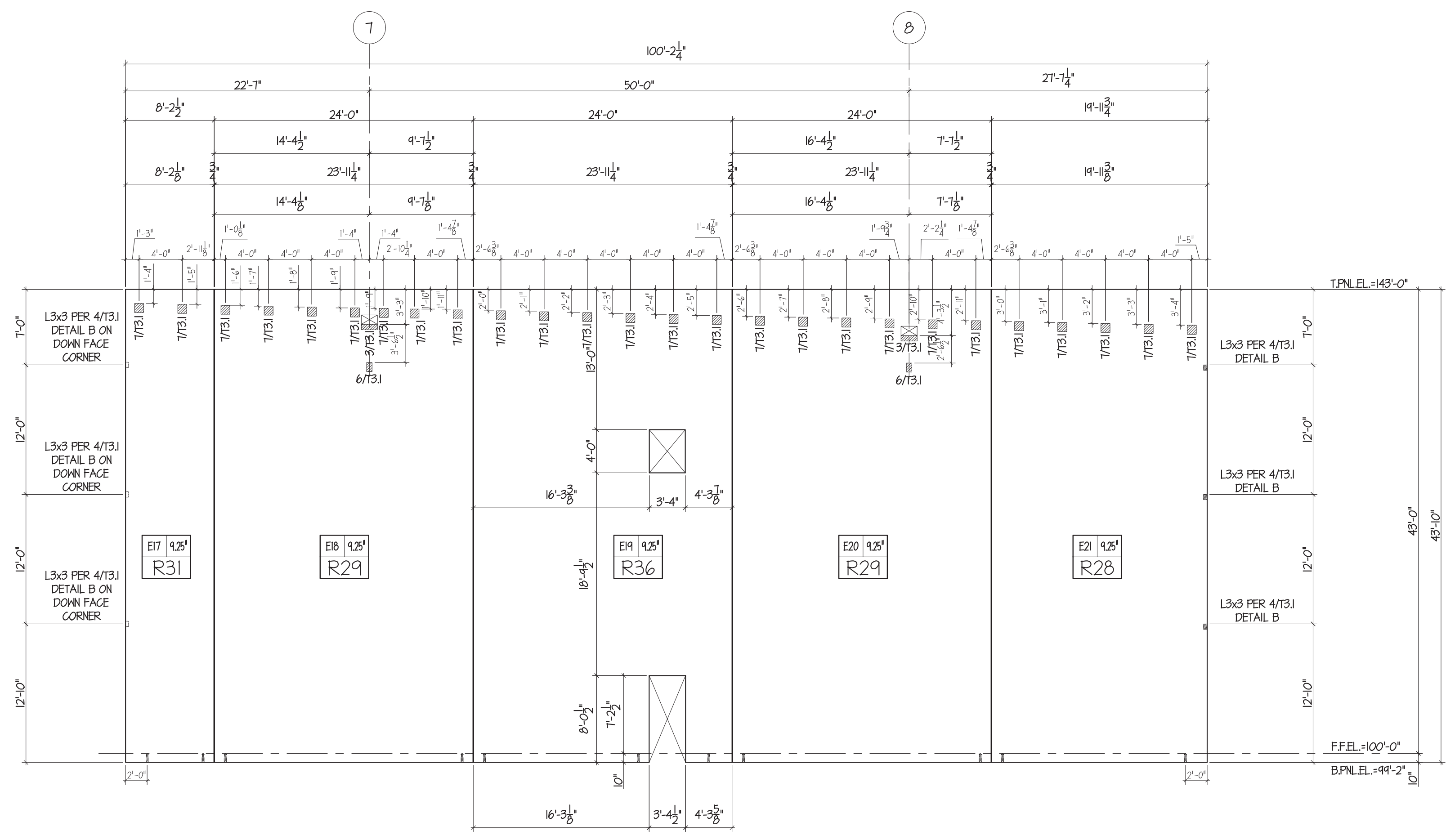
**Lee's Summit Logistics
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NW Corner of NE Tudor Rd. & Main St.
Lee's Summit, MO 64086

ISSUE TYPE	ISSUE DATE
FOR REVIEW AND APPROVAL	2022-05-16
FIELD USE	2022-06-09
REVISION 1	2022-06-27

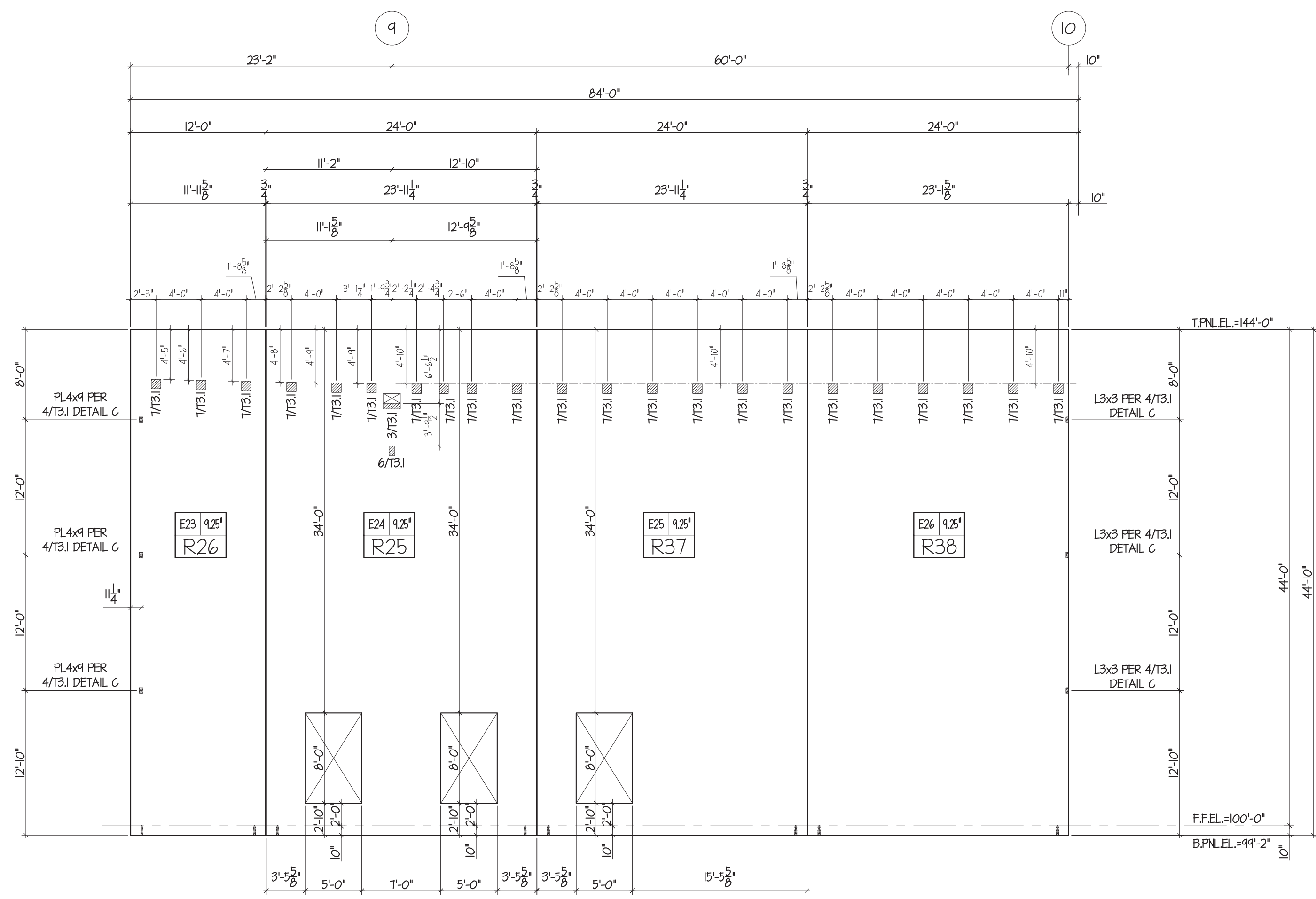
SHEET NO:

T2.11

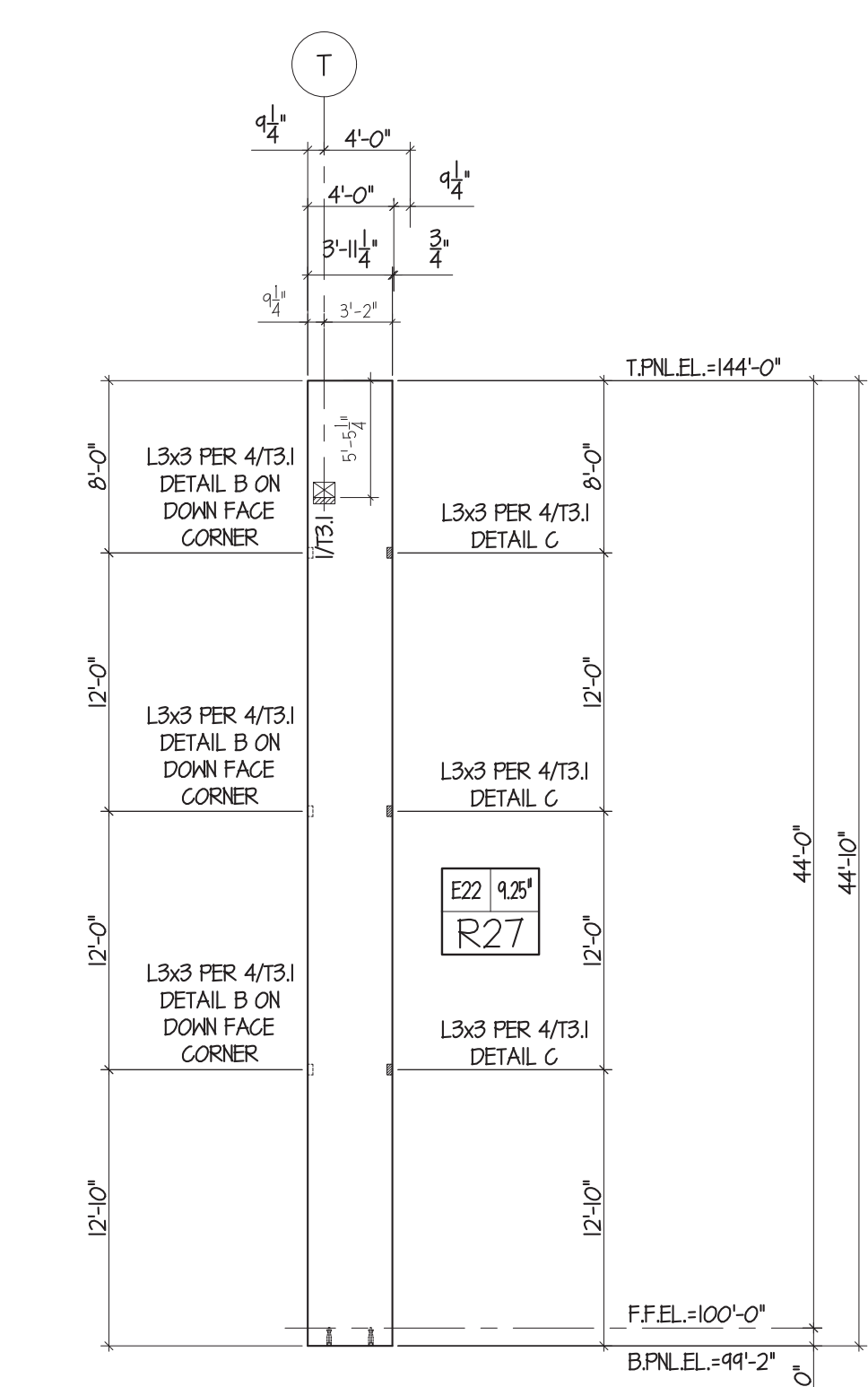
FIELD USE 2022-06-09



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



2 EAST ELEVATION
SCALE: 1/8" = 1'-0"



3 EAST ELEVATION
SCALE: 1/8" = 1'-0"



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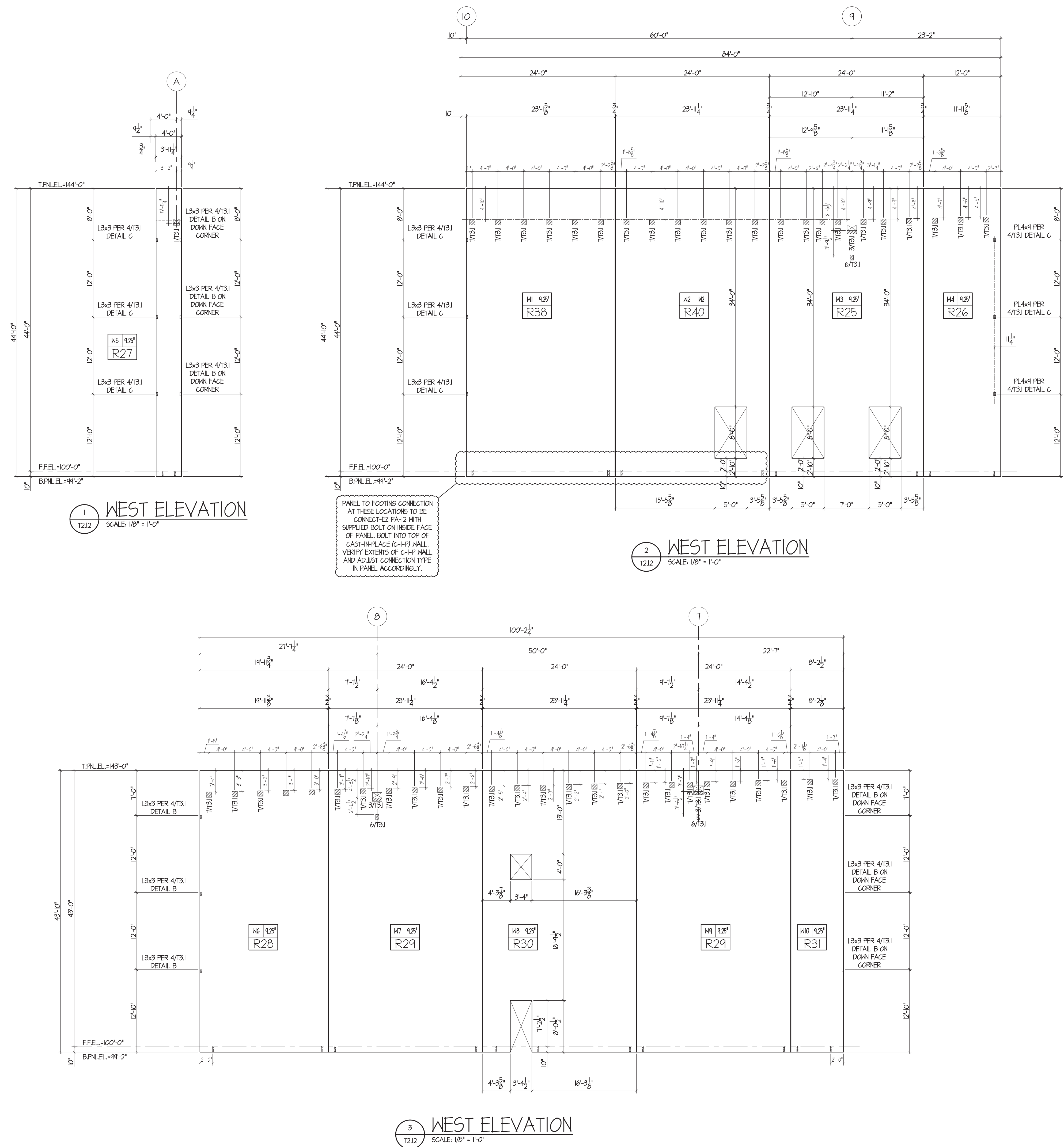
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ISSUE TYPE	ISSUE DATE
FOR REVIEW AND APPROVAL	2022-05-16
FIELD USE	2022-06-09
REVISION 1	2022-06-27

SHEET NO:

T2.12

FIELD USE 2022-06-09





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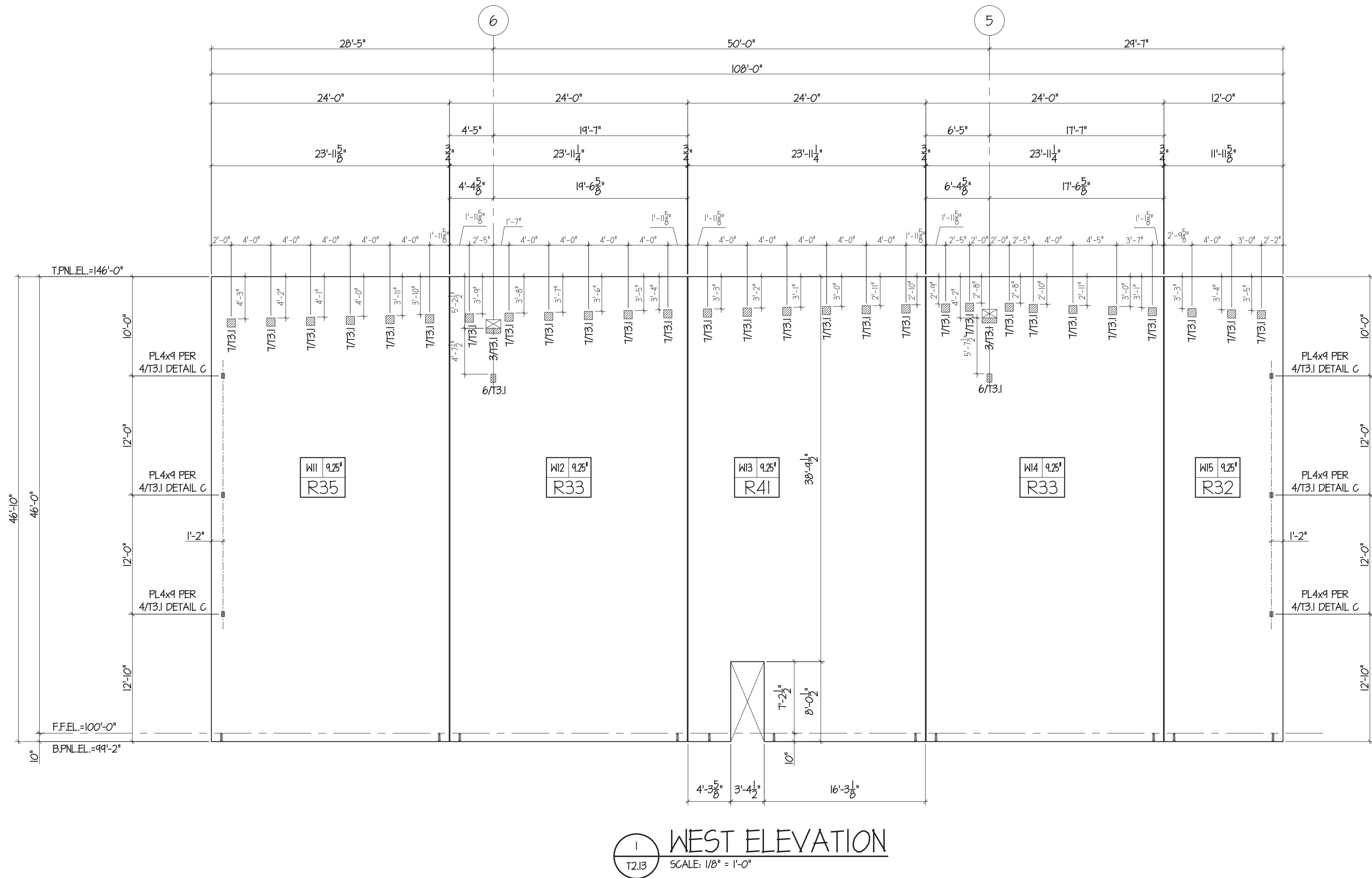
Lee's Summit Logistics
Building A Lot 1
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Lee's Summit, MO 64086

ISSUE TYPE	ISSUE DATE
FOR REVIEW AND APPROVAL	2022-05-16
FIELD USE	2022-06-09
REVISION 1	2022-06-27

SHEET NO:

T2.13

FIELD USE 2022-06-09





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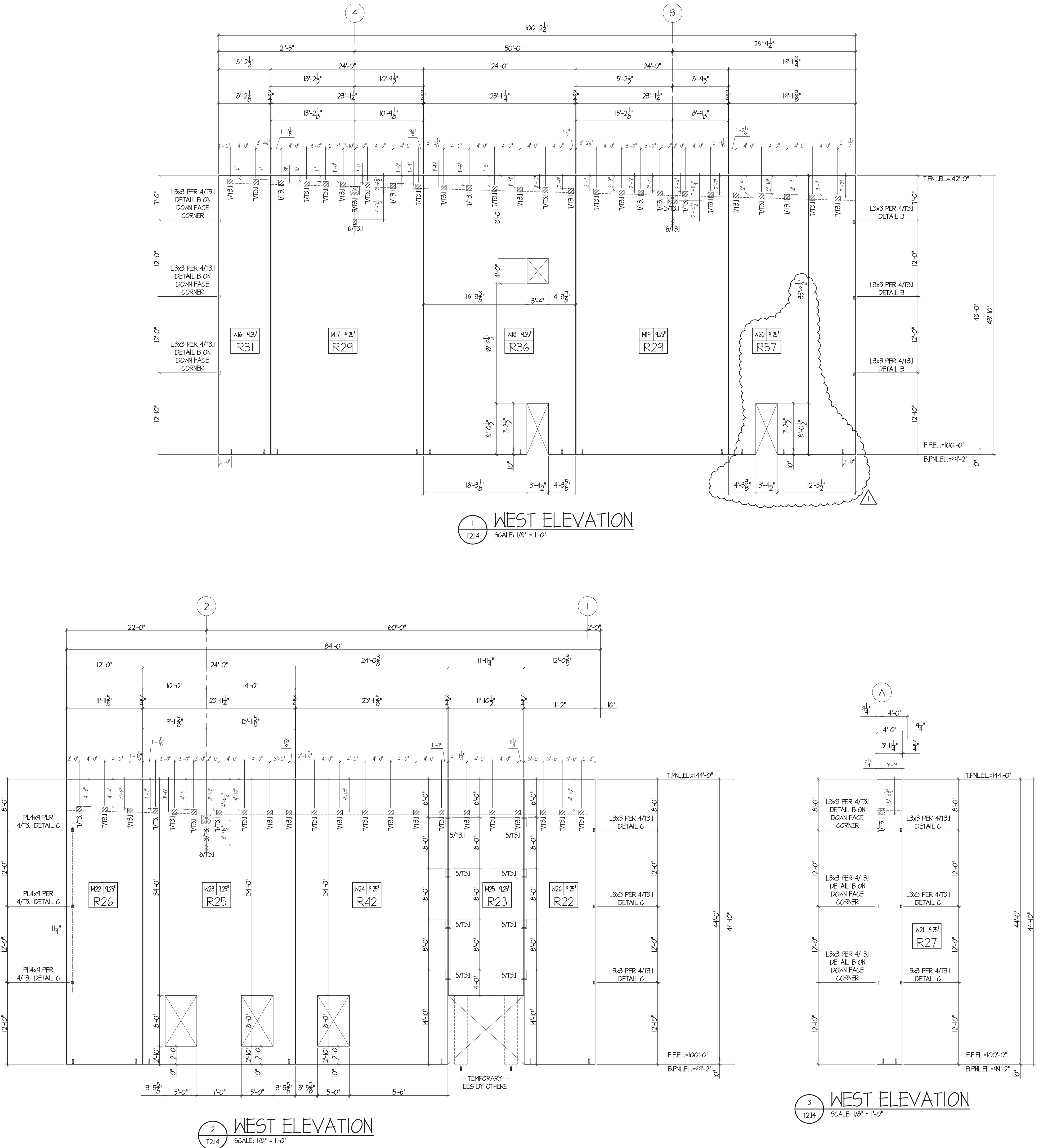
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Lee's Summit, MO 64086

ISSUE TYPE	ISSUE DATE
FOR REVIEW AND APPROVAL	2022-05-16
FIELD USE	2022-06-09
REVISION 1	2022-06-27

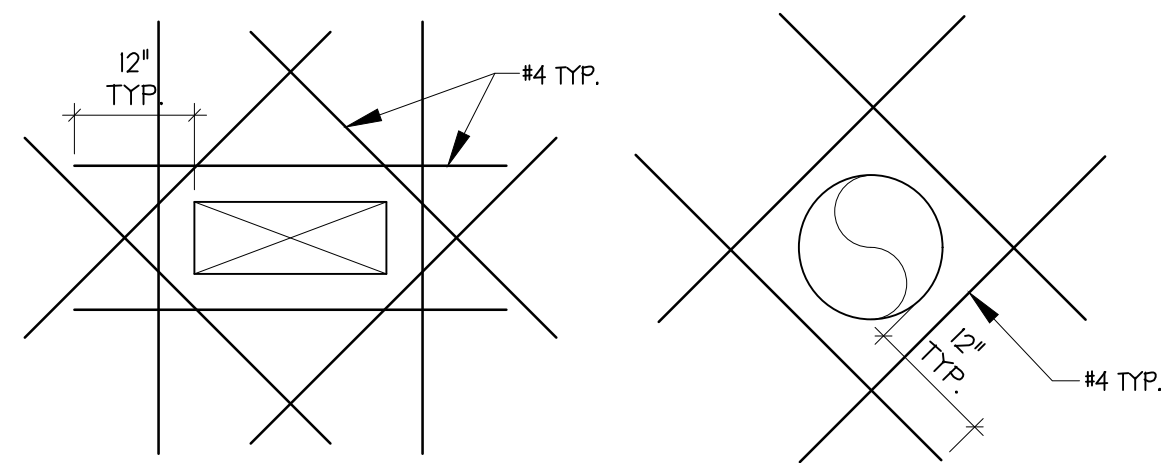
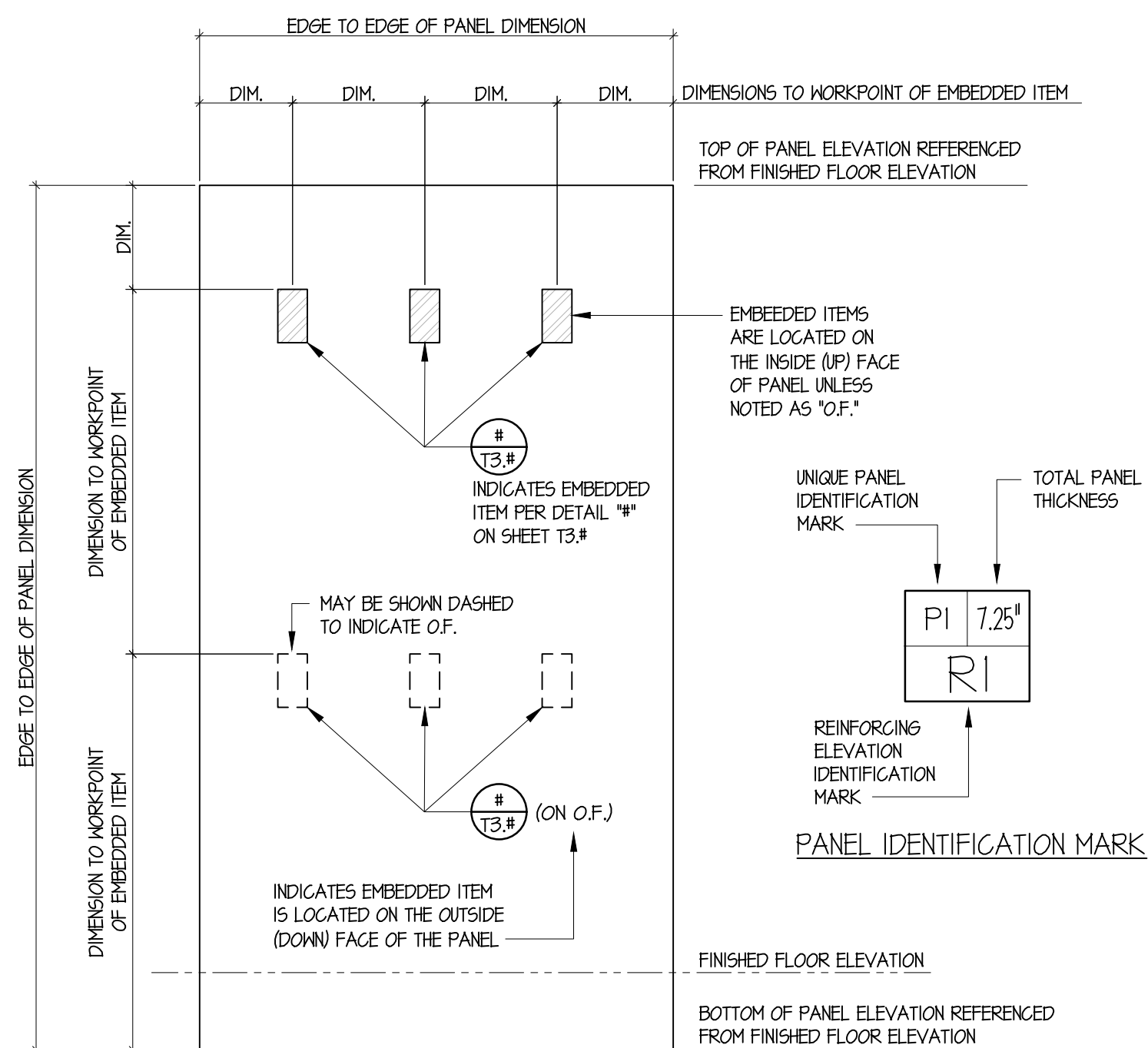
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T2.14

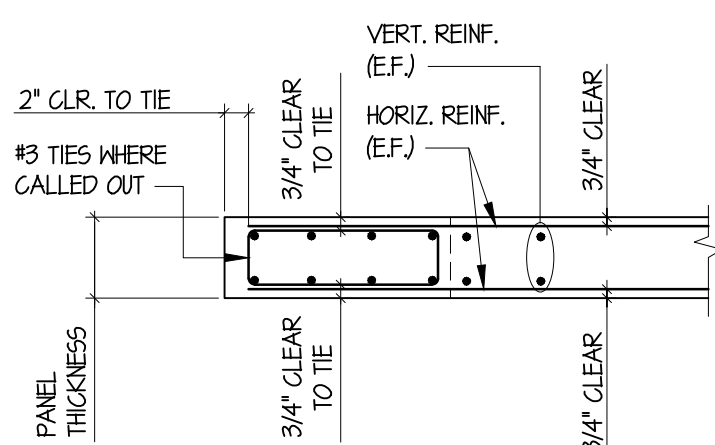
FIELD USE 2022-06-09



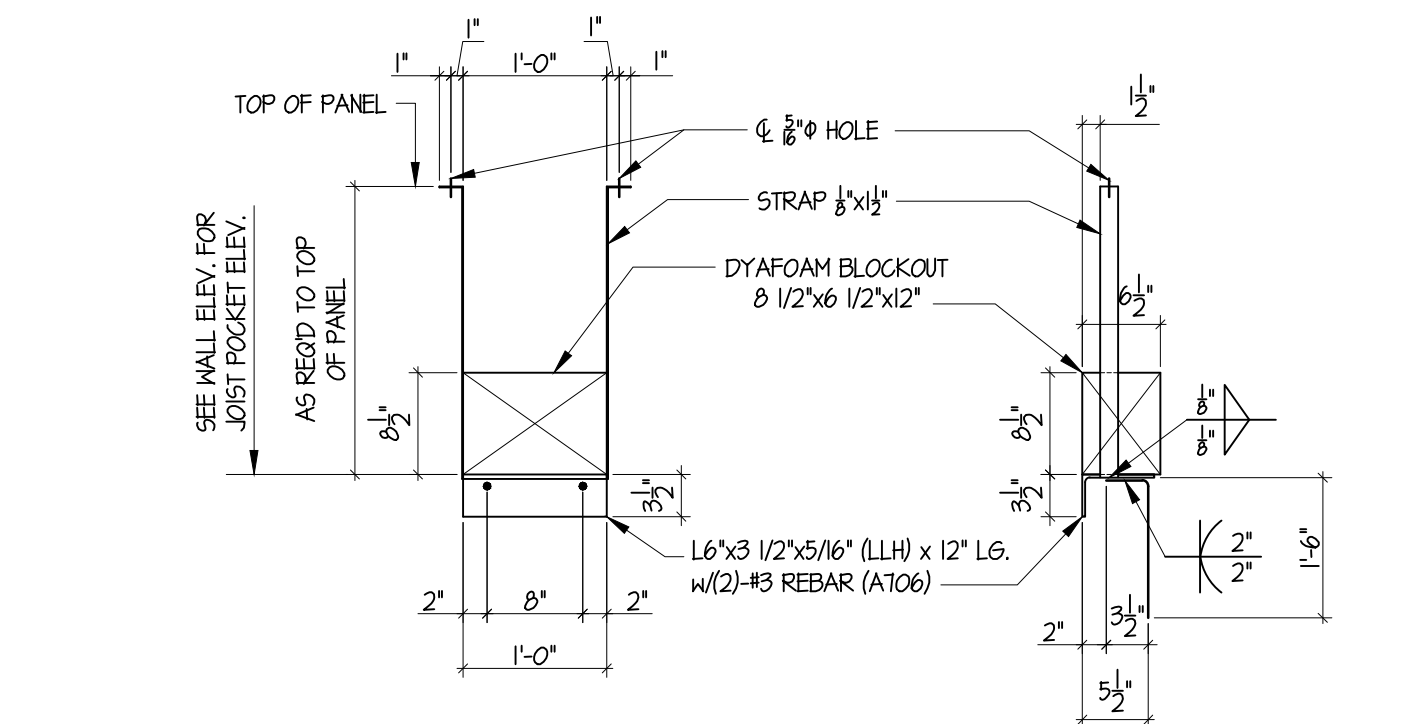
- 1) ALL TILT-UP PANELS ARE SHOWN FROM THE INSIDE WITH THE OUTSIDE FACE DOWN.
- 2) WALL PANELS SHALL NOT BE LIFTED UNTIL THE CONCRETE HAS ATTAINED A COMPRESSIVE STRENGTH OF 3000PSI AND A MINIMUM FLEXURAL STRENGTH OF 5000PSI AS DETERMINED BY STANDARD BEAMS FIELD (CURED AND BROKEN IN ACCORDANCE WITH ASTM C78-64 (OR AS OTHERWISE SPECIFIED BY THE LIFTING AND BRACING ENGINEER). CONCRETE SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF 4500PSI (OR AS NOTED OTHERWISE ON DRAWINGS).
- 3) FOR REINFORCING STEEL PLACEMENT REFER TO THE T4 SHEETS.
- 4) FOR PANEL LIFTING AND BRACING, REFER TO DRAWINGS BY OTHERS.
- 5) CHLORIDE BASED ADMIXTURES ARE PROHIBITED IN CONCRETE USED FOR WALL PANELS.
- 6) TEMPORARY BRACING (BY OTHERS) SHALL BE PROVIDED FOR WALL PANELS IN THE ERECT POSITION. INSTALLATION OF WALL BRACES SHALL MEET ALL REQUIREMENTS OF THE BRACE SUPPLIER.
- 7) TEMPORARY BRACING (BY OTHERS, I.E. MEADOW-BURKE) SHALL BE DESIGNED PER "TILT-UP CONCRETE ASSOCIATIONS GUIDELINE FOR TEMPORARY WIND BRACING OF TILT-UP CONCRETE PANELS DURING CONSTRUCTION" (LATEST VERSION).
- 8) MAXIMUM DEPTH OF HORIZONTAL AND VERTICAL REVEALS (OR BRICK) IS 3/4". ALL TILT-UP PANELS WILL BE SIZED AND DETAILED BASED ON A 3/4" REVEAL (BRICK) DEPTH. ANY REDesign REQUIRED DUE TO DEEPER REVEALS WILL BE TREATED AS ADDITIONAL SERVICES. REFER TO THE ARCHITECTURAL DRAWINGS FOR ALL REVEAL INFORMATION INCLUDING EXACT LOCATIONS. REVEALS (BRICK) MAY BE SHOWN ON THE TILT-UP PANELS OR THEIR APPLIES IN THE TILT-UP PANELS OR MAY BE EXCLUDED FROM THE TILT-UP DRAWINGS FOR CLARITY. TILT-UP DRAWINGS WILL NOT BE REVISED TO SHOW RELOCATED OR ADDITIONAL REVEALS (BRICK).
- 9) TEMPORARY BRACING SHALL NOT BE REMOVED UNTIL BUILDING LATERAL FRAMING SYSTEM IS COMPLETE (I.E. METAL ROOF DECK, BRACES, MOMENT FRAMES, FLOOR SLAB, ETC.) OR AS DIRECTED BY THE PROJECT "ENGINEER OF RECORD".



DETAIL
SCALE: 3/4" = 1'-0"

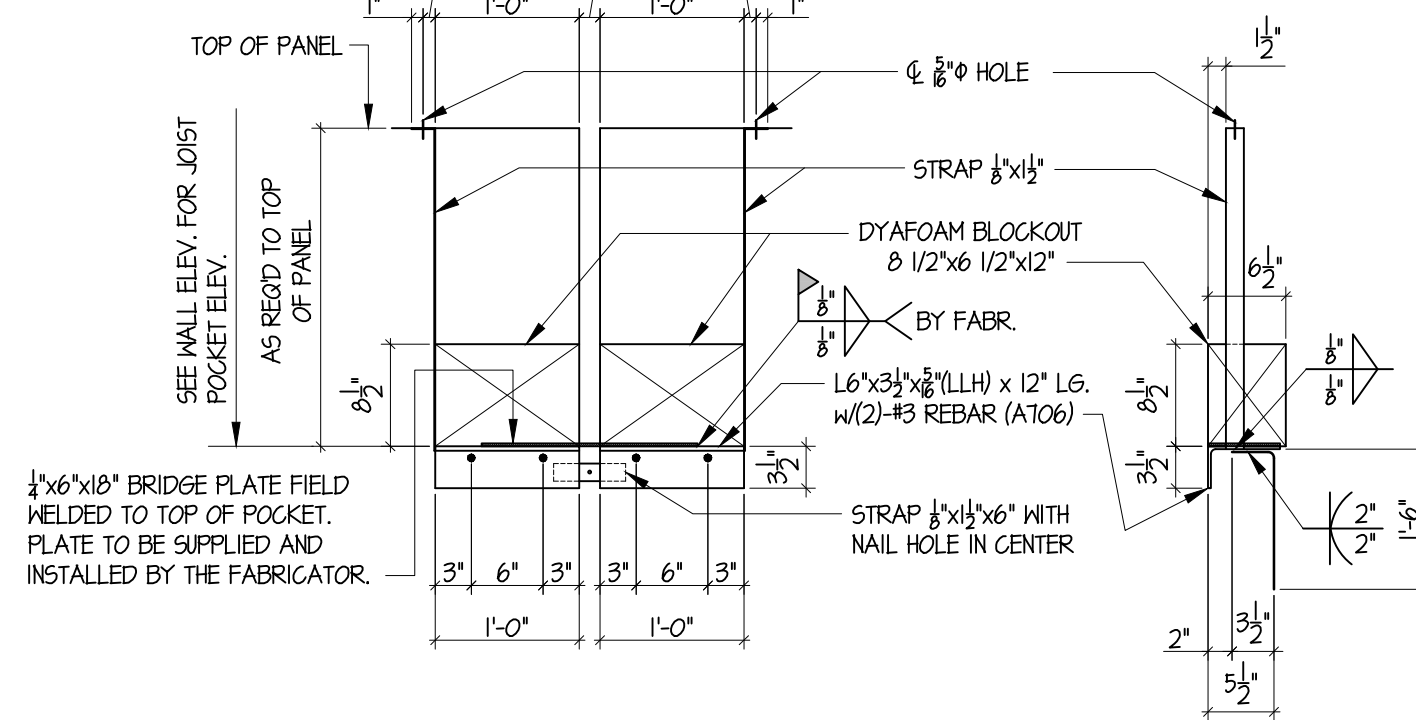


TYPICAL PANEL REINFORCING DETAILS



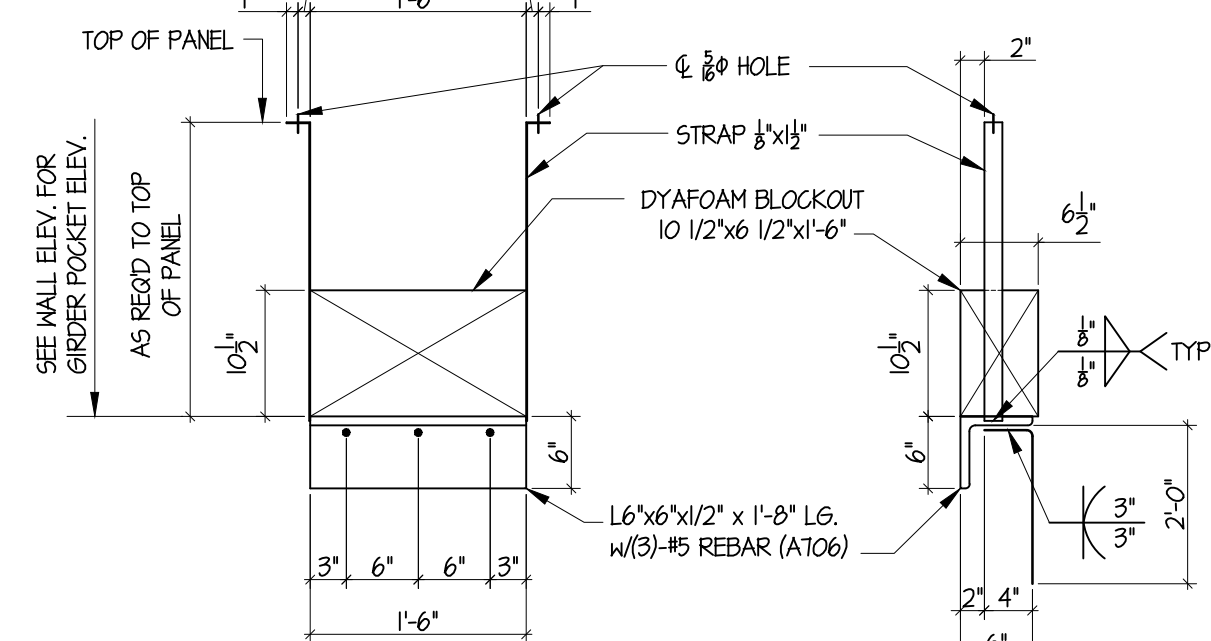
DETAIL

SCALE: 3/4" = 1'-0"



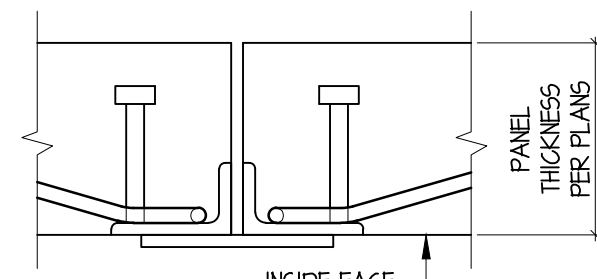
2
T3.1

DETAIL
SCALE: 3/4" = 1'-0"



3
T3.1

DETAIL
SCALE: 3/4" = 1'-0"

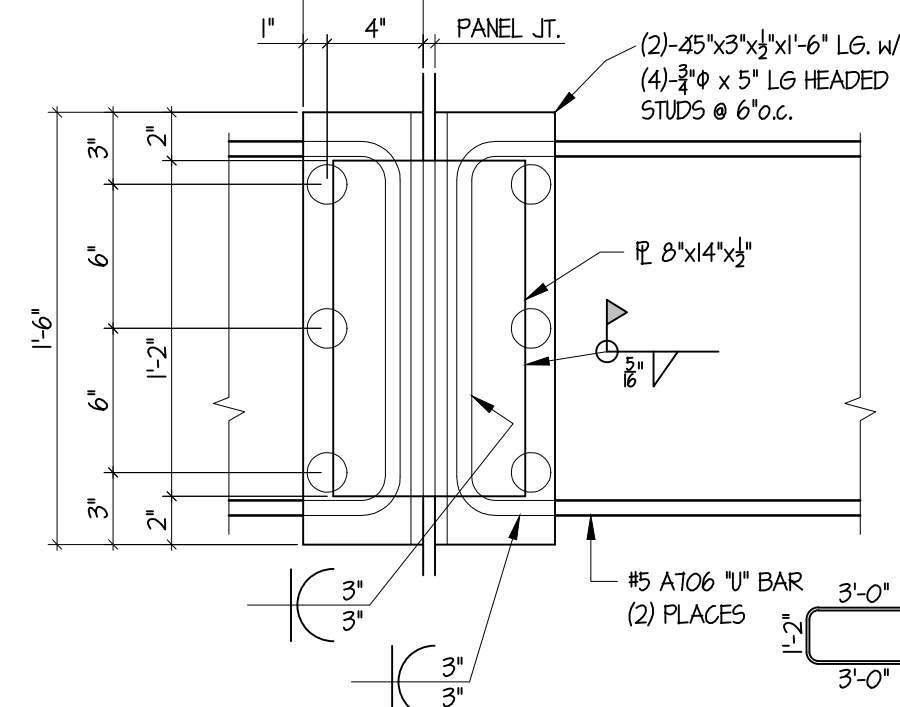


OF PANEL —

5"

1" 4" PANEL JT.

(2)-45°

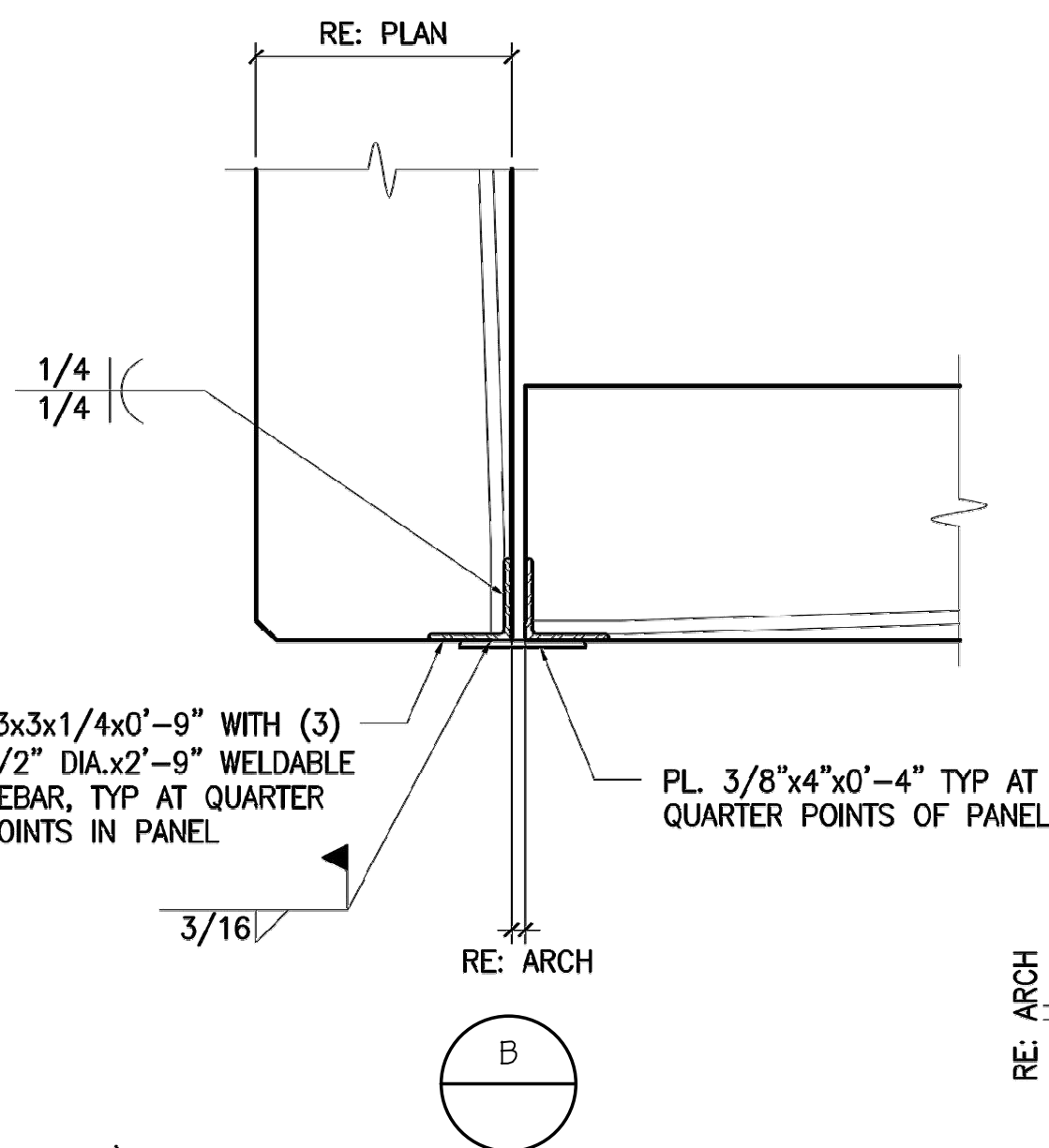


5
T3.1

DETAIL

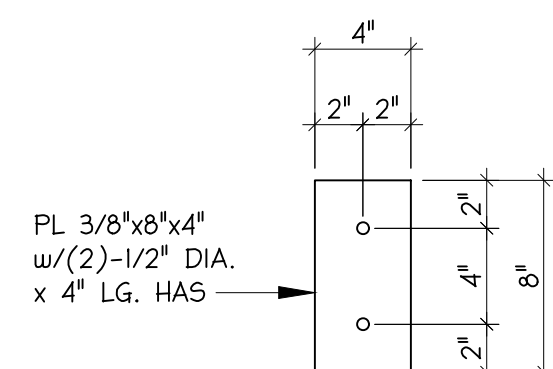
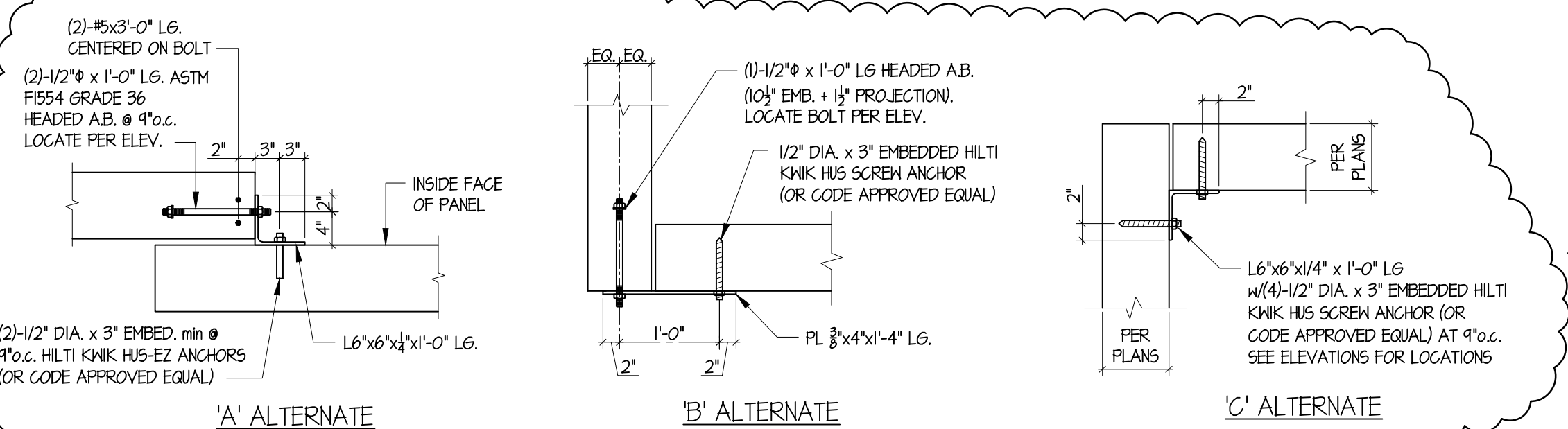
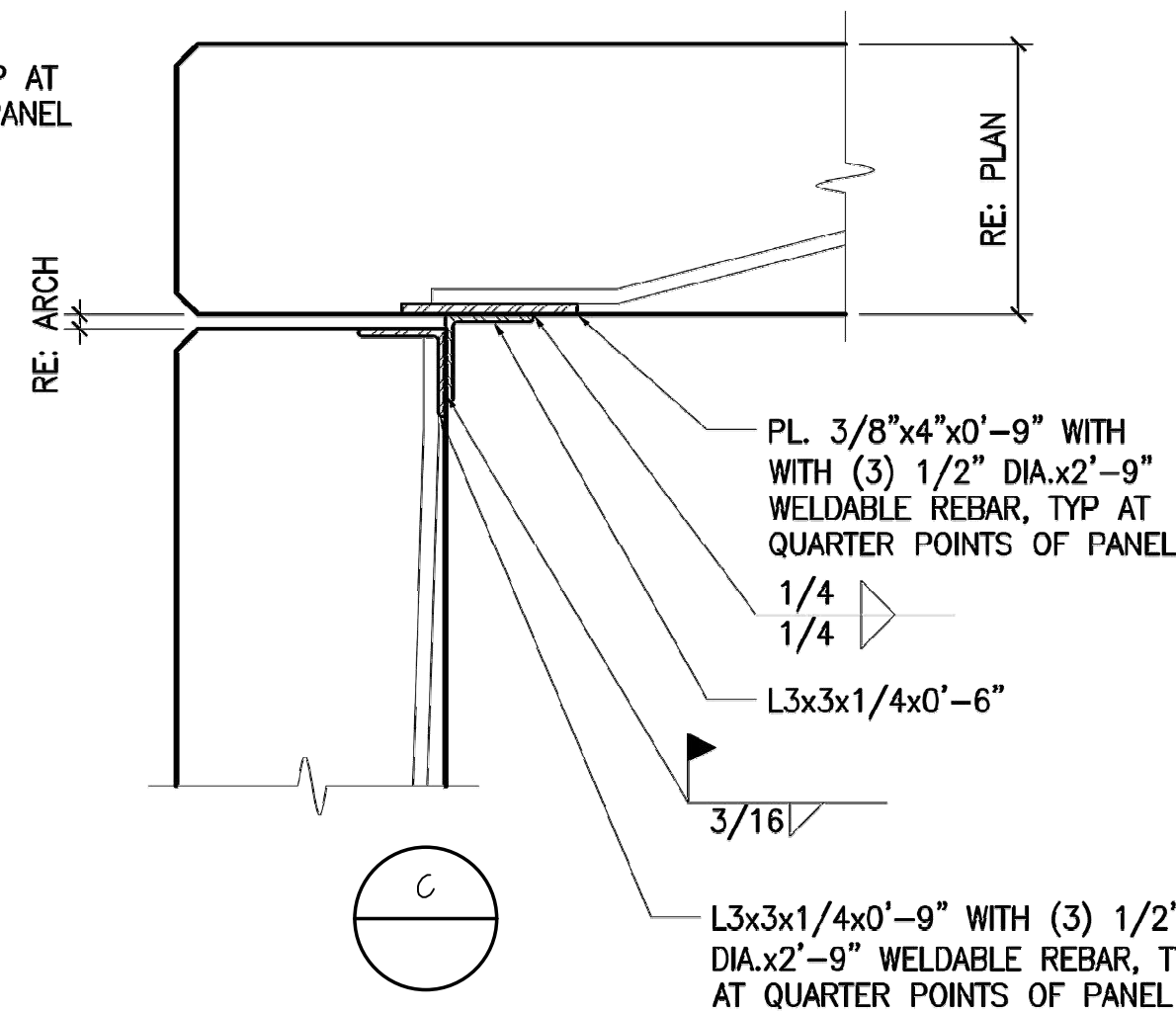
SCALE: 1 1/2" = 1'-0"

- 1) ALL REBAR TO BE ASTM A615 GRADE 60 U.N.O.
- 2) MAINTAIN 6" CLEAR FOR ALL BARS PARALLEL TO FUTURE OPENINGS UNLESS SHOWN OTHERWISE. ADDITIONAL REINFORCING BARS AT FORMED OR FUTURE OPENINGS SHALL BE LOCATED AS SHOWN.
- 3) THE CLEAR DISTANCE BETWEEN PARALLEL BARS IN A LEVEL SHALL NOT BE LESS THAN 2".
- 4) REBAR CLEAR DISTANCE AT EDGES OF PANEL PER THE FOLLOWING: (COMPLIES WITH THE APPLICABLE VERSION OF ACI-308)
a) AT SIDES OF PANELS WITH CALKED PANEL JOINTS = 3/4".
b) AT BOTTOM OF GROUDED PANEL = 3/4".
c) TOP OF PANELS WITH WEATHER PROOFING (E.G. METAL FLASHING, BITUMEN NAILER, ETC.) = 3/4".
d) AT ANY EDGE OF PANELS THAT ARE NOT PROTECTED FROM THE WEATHER:
#6 BARS OR LARGER = 2".
#5 BARS OR SMALLER = 1 1/2".
INSIDE AND OUTSIDE FACE REBAR CLEAR DISTANCES PER THE DETAILS ON THE T3 SHEETS.
- 5) HORIZONTAL & VERTICAL BARS SHALL NOT BE SPLICED EXCEPT AS APPROVED BY THE TILT-UP ENGINEER.
- 6) HORIZONTAL AND VERTICAL REINFORCING BARS SHALL BE SECURELY TIED AT 30% OF THEIR INTERSECTIONS. TIES ARE TO BE DISTRIBUTED UNIFORMLY THROUGHOUT THE REINFORCING MAT. BARS SHALL BE TIED ADEQUATELY TO PREVENT REBAR FROM MOVING DURING CONCRETE PLACEMENT.



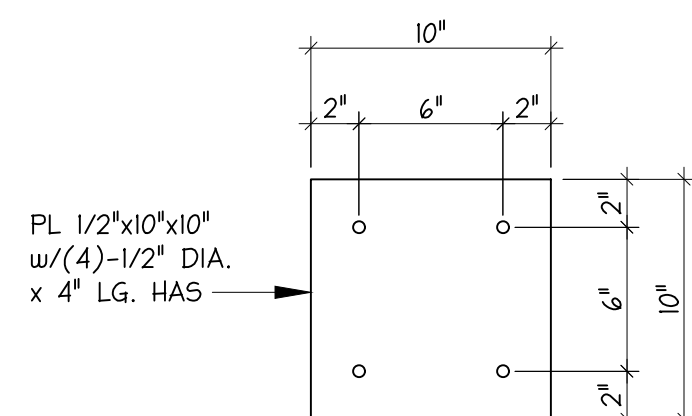
4
T3.1

DETAIL
SCALE: 3/4" = 1'-0"



6
T3.1



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



7
T3.1

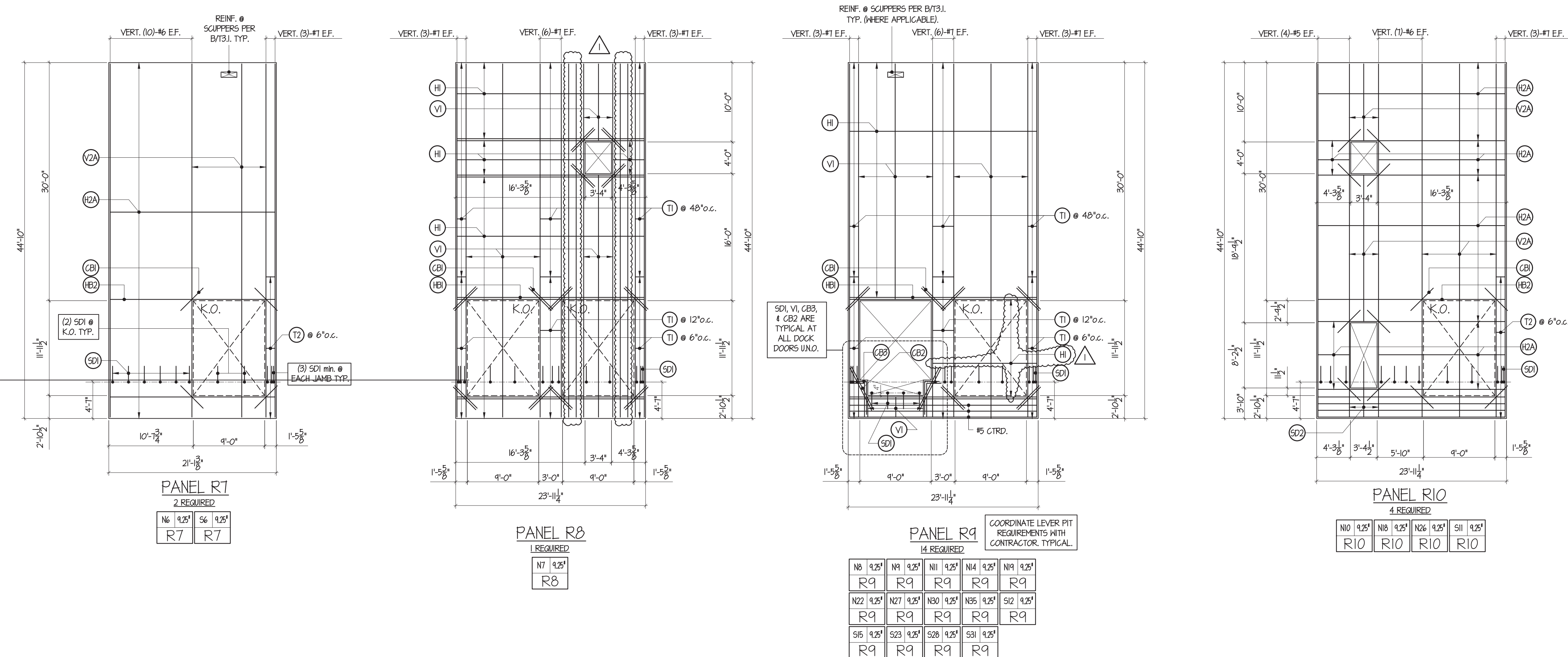
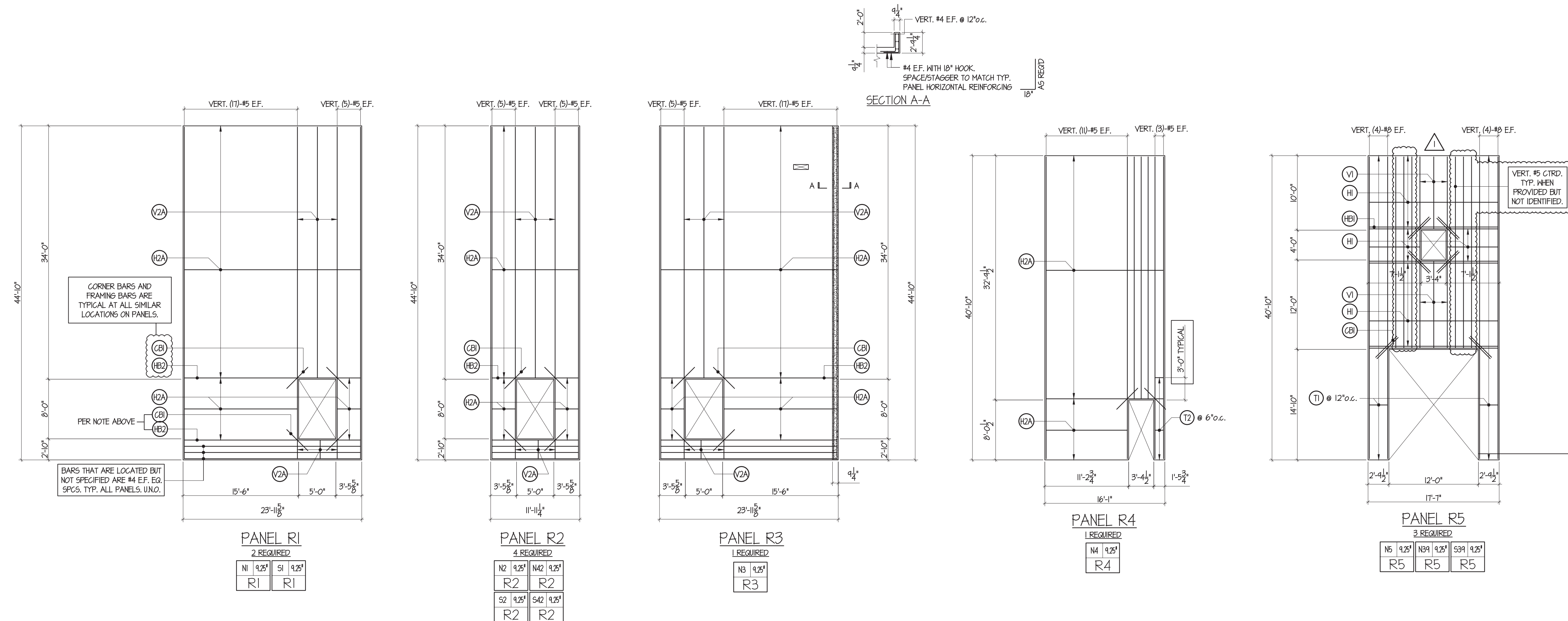
DETAIL
SCALE: 1 1/2" = 1'-0"

Lee's Summit Logistics
Building A Lot 1
NW Corner of NE Tudor Rd. & Main St.
Lee's Summit, MO 64086

ISSUE TYPE	ISSUE DATE
FOR REVIEW AND APPROVAL	2022-05-16
FIELD USE	2022-06-09
REVISION 1 	2022-06-27
REVISION 2 	2022-07-05

SHEET NO:

T3.1



REINFORCING		SCHEDULE	
(V1)	VERT. #4 @ 16" o.c. CTDR.	(H1)	HORIZ. #5 @ 16" o.c. CTDR.
(V2)	VERT. #4 @ 18" o.c. EF.	(H2)	HORIZ. #4 @ 18" o.c. EF.
(V2A)	VERT. #4 @ 32" o.c. EF. EACH LAYER STAGGERED 16" o.c.	(H2A)	HORIZ. #5 @ 32" o.c. EF. EACH LAYER STAGGERED 16" o.c.
		(SD1)	#4 SLAB DOWELS @ 24" o.c. MAX. (min. 3 PER LEG/JAMB)
		(SD2)	#4 x 7'-0" L.G. SLAB DOWELS @ 12" o.c. (FIELD BEND)
		(CB1)	(2)-#5 x 4'-0" CORNER BARS (1) EF. OR (2) CTDR. @ 3' o.c.
		(CB2)	(2)-#5 x 6'-0" CORNER BARS (1) EF. OR (2) CTDR. @ 3' o.c.
		(CB3)	(2)-#5 CORNER BARS (1) EF. OR (2) CTDR. @ 3' o.c.
(T1)	#3 ONE PIECE TIE w/90° HOOKS		
(T2)	#3 TWO PIECE TIE w/90° HOOKS		
(T1) & (T2)	MAY BE USED INTERCHANGEABLY		
(HB2)	HORIZONTAL BAR #5 EF. w/10° HOOKS EA. END (HOOK NOT REQ'D IF JAMB IS 30° OR MORE)		
(HB1)	HORIZONTAL BAR (2)-#5 CTDR. @ 3' o.c. w/10° HOOKS EA. END (HOOK NOT REQ'D IF JAMB IS 30° OR MORE)		



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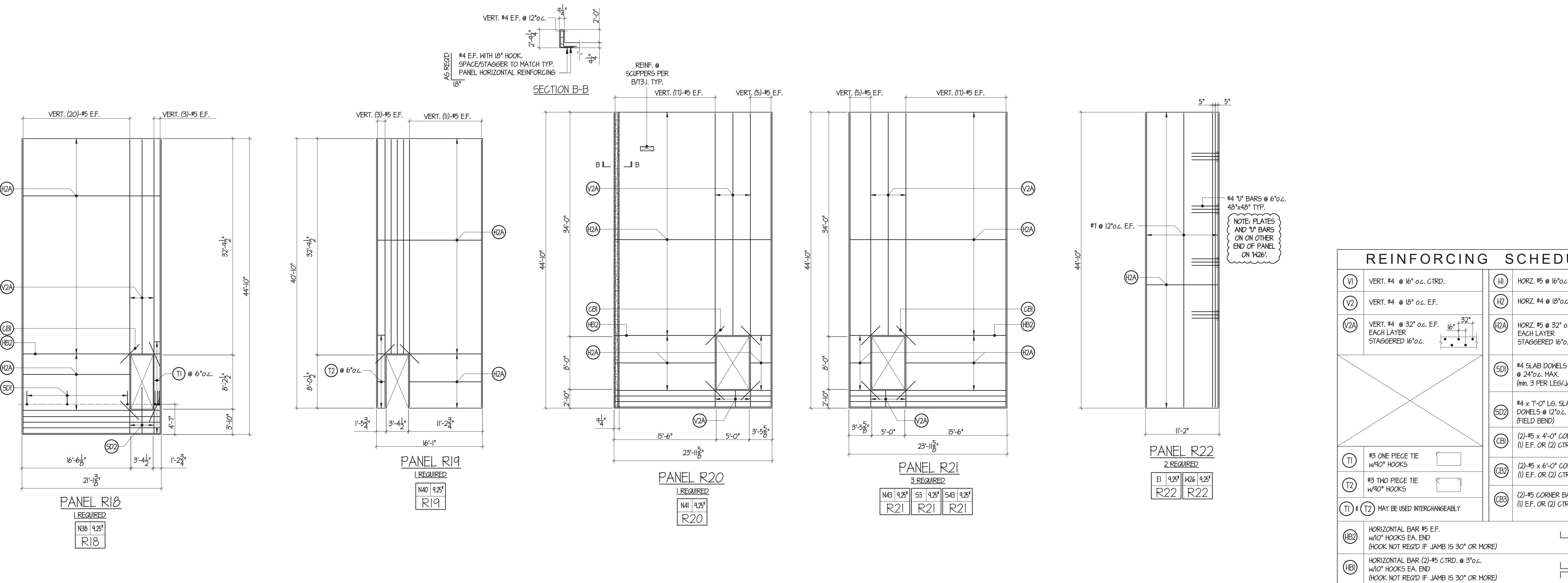
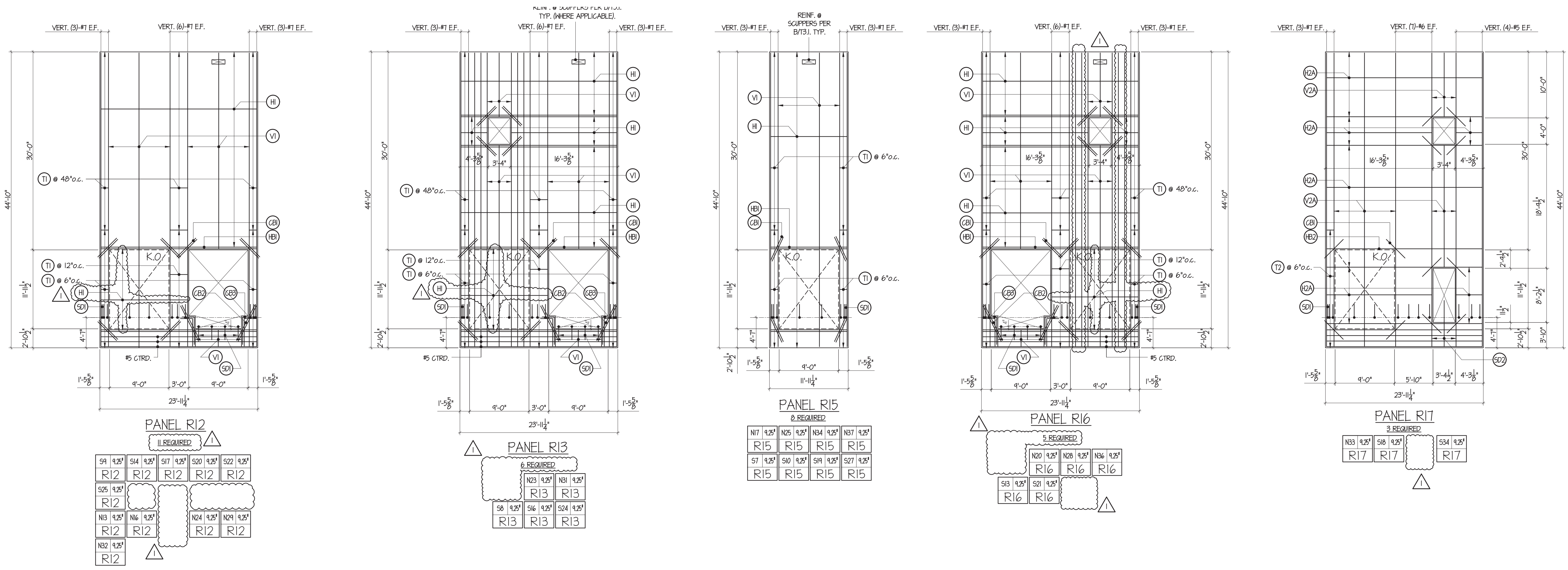
Lee's Summit Logistics Building A Lot 1

NW Corner of NE Tudor Rd. & Main St.
Lee's Summit, MO 64086

ISSUE TYPE	ISSUE DATE
FOR REVIEW AND APPROVAL	2022-05-16
FIELD USE	2022-06-09
REVISION 1	2022-06-27

SHEET NO:
T4.2

FIELD USE 2022-06-09



REINFORCING SCHEDULE			
(V1)	VERT. #4 @ 16" o.c. CT RD.	(H1)	HORZ. #5 @ 16" o.c. CT RD.
(V2)	VERT. #4 @ 18" o.c. EF.	(H2)	HORZ. #4 @ 18" o.c. EF.
(V2A)	VERT. #4 @ 32" o.c. EF. EACH LAYER STAGGERED 16" o.c.	(H2A)	HORZ. #5 @ 32" o.c. EF. EACH LAYER STAGGERED 16" o.c.
		(SD1)	#4 SLAB DOWELS @ 24" o.c. MAX. (min. 3 PER LEG/JAMB)
		(SD2)	#4 x 1'-0" L.G. SLAB DOWELS @ 12" o.c. (FIELD BEND)
		(CB1)	(2)-#5 x 4'-0" CORNER BARS (1) EF. OR (2) CT RD. @ 3" o.c.
		(CB2)	(2)-#5 x 6'-0" CORNER BARS (1) EF. OR (2) CT RD. @ 3" o.c.
		(CB3)	(2)-#5 CORNER BARS (1) EF. OR (2) CT RD. @ 3" o.c.
(T1)	#3 ONE PIECE TIE w/90° HOOKS		
(T2)	#3 TWO PIECE TIE w/90° HOOKS		
(T1) & (T2)	MAY BE USED INTERCHANGEABLY		
(HB2)	HORIZONTAL BAR #5 EF. w/10" HOOKS EA. END (HOOK NOT REQD IF JAMB IS 30" OR MORE)		
(HB1)	HORIZONTAL BAR (2)-#5 CT RD. @ 3" o.c. w/10" HOOKS EA. END (HOOK NOT REQD IF JAMB IS 30" OR MORE)		



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Lee's Summit Logistics Building A Lot 1 NW Corner of NE Tudor Rd. & Main St. Lee's Summit, MO 64086

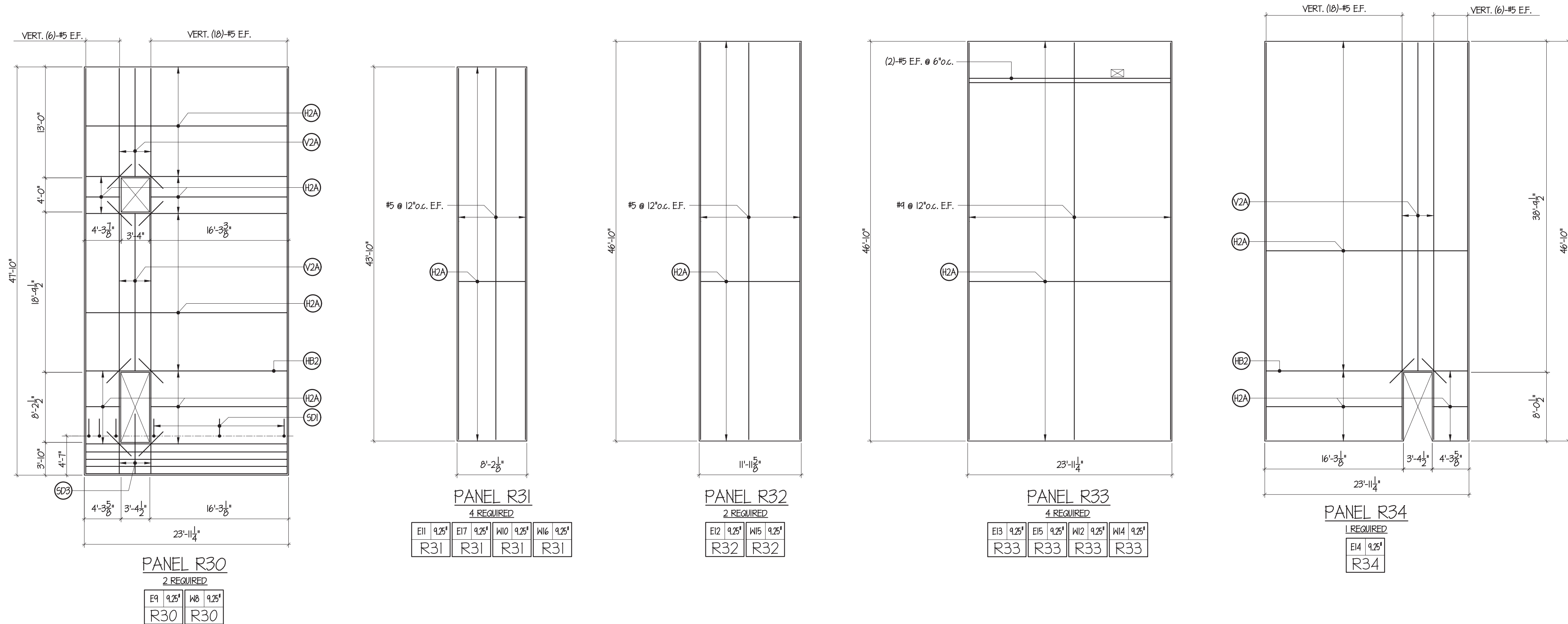
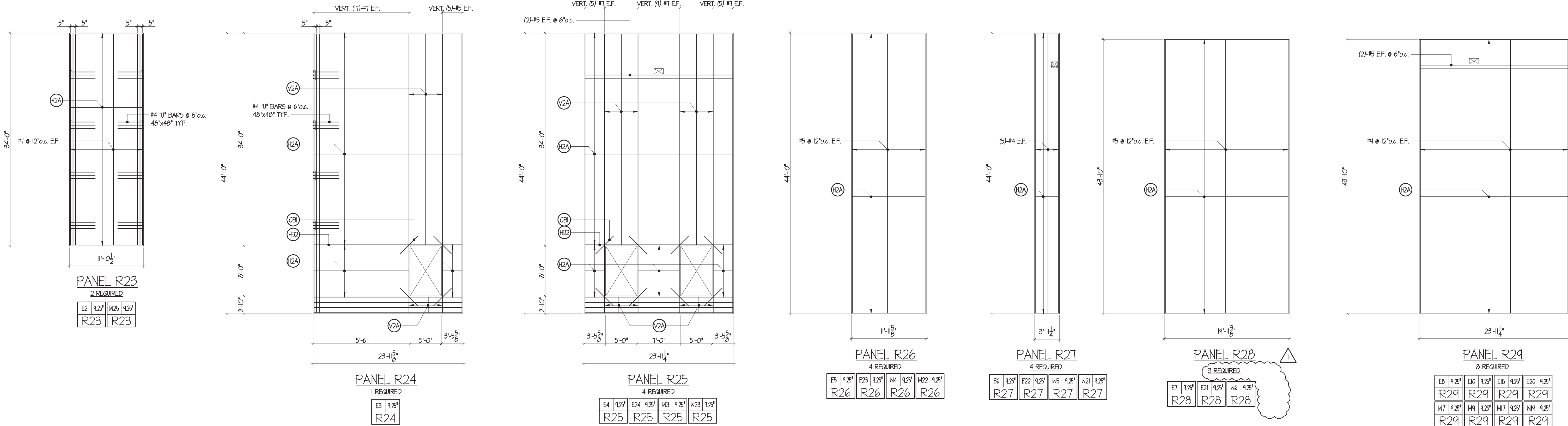
FIELD USE 2022-06-09

ISSUE TYPE	ISSUE DATE
FOR REVIEW AND APPROVAL	2022-05-16
FIELD USE	2022-06-09
REVISION 1	2022-06-27



SHEET NO:

T4.3



REINFORCING SCHEDULE					
(V1)	VERT. #4 @ 16" o.c. CTDR.	(H1)	HORZ. #5 @ 16" o.c. CTDR.		
(V2)	VERT. #4 @ 18" o.c. EF.	(H2)	HORZ. #4 @ 18" o.c. EF.		
(V2A)	VERT. #4 @ 32" o.c. EF. EACH LAYER STAGGERED 16" o.c.	(H2A)	HORZ. #5 @ 32" o.c. EF. EACH LAYER STAGGERED 16" o.c.		
		(SD1)	#4 SLAB DOWELS @ 24" o.c. MAX. (min. 3 PER LEG/JAMB)		
		(SD2)	#4 x 1"-0" L.G. SLAB DOWELS @ 12" o.c. (FIELD BEND)		
		(CB1)	(2)-#5 x 4'-0" CORNER BARS (1) EF. OR (2) CTDR. @ 3' o.c.		
		(CB2)	(2)-#5 x 6'-0" CORNER BARS (1) EF. OR (2) CTDR. @ 3' o.c.		
		(CB3)	(2)-#5 CORNER BARS (1) EF. OR (2) CTDR. @ 3' o.c.		
(T1)	#3 ONE PIECE TIE w/90° HOOKS				
(T2)	#3 TWO PIECE TIE w/90° HOOKS				
(T1) & (T2)	MAY BE USED INTERCHANGEABLY				
(HB2)	HORIZONTAL BAR #5 EF. w/10" HOOKS EA. END (HOOK NOT REQD IF JAMB IS 30" OR MORE)				
(HB1)	HORIZONTAL BAR (2)-#5 CTDR. @ 3' o.c. w/10" HOOKS EA. END (HOOK NOT REQD IF JAMB IS 30" OR MORE)				



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Lee's Summit Logistics
Building A Lot 1
NW Corner of NE Tudor Rd. & Main St.
Lee's Summit, MO 64086

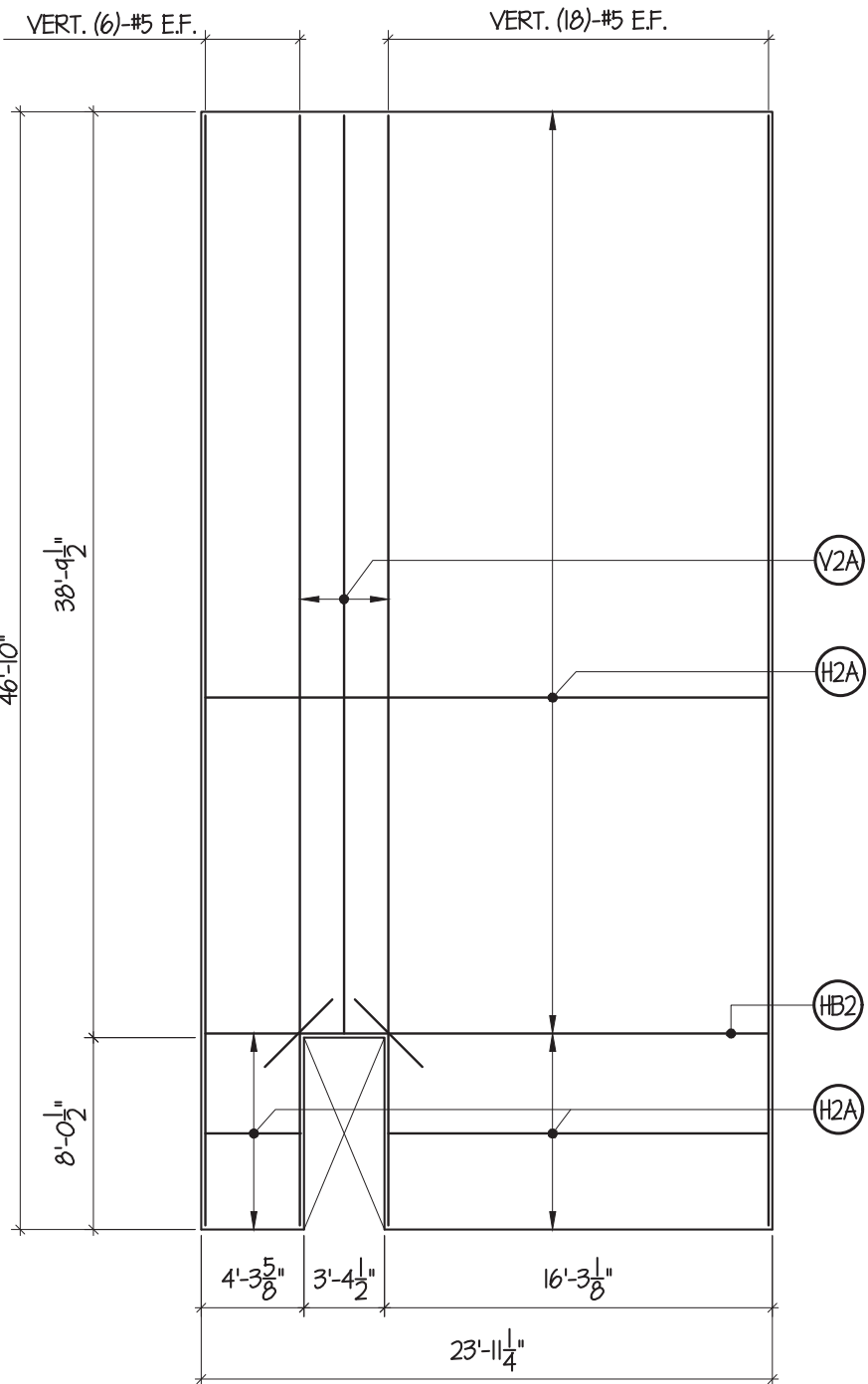
ISSUE TYPE		ISSUE DATE
FOR REVIEW AND APPROVAL FIELD USE REVISION 1	△	2022-05-16
		2022-06-09
		2022-06-27

SHEET NO:

T4.4

FIELD USE 2022-06-09

REINFORCING SCHEDULE					
(V1)	VERT. #4 @ 16" o.c. CTRD.		(H1)	HORZ. #5 @ 16" o.c. CTRD.	
(V2)	VERT. #4 @ 18" o.c. EF.		(H2)	HORZ. #4 @ 18" o.c. EF.	
(V2A)	VERT. #4 @ 32" o.c. EF. EACH LAYER STAGGERED 16" o.c.		(H2A)	HORZ. #5 @ 32" o.c. EF. EACH LAYER STAGGERED 16" o.c.	
			(SD1)	#4 SLAB DOWELS @ 24" o.c. MAX. (min. 3 PER LEG/JAMB)	
			(SD2)	#4 x 1'-0" L.G. SLAB DOWELS @ 12" o.c. (FIELD BEND)	
			(CB1)	(2)-#5 x 4'-0" CORNER BARS (1) EF. OR (2) CTRD. @ 3' o.c.	
			(CB2)	(2)-#5 x 6'-0" CORNER BARS (1) EF. OR (2) CTRD. @ 3' o.c.	
			(CB3)	(2)-#5 CORNER BARS (1) EF. OR (2) CTRD. @ 3' o.c.	
(T1)	#3 ONE PIECE TIE w/90° HOOKS				
(T2)	#3 TWO PIECE TIE w/90° HOOKS				
(T1) & (T2)	MAY BE USED INTERCHANGEABLY				
(HB2)	HORIZONTAL BAR #5 EF. w/10" HOOKS EA. END (HOOK NOT REQ'D IF JAMB IS 30" OR MORE)				
(HB1)	HORIZONTAL BAR (2)-#5 CTRD. @ 3' o.c. w/10" HOOKS EA. END (HOOK NOT REQ'D IF JAMB IS 30" OR MORE)				

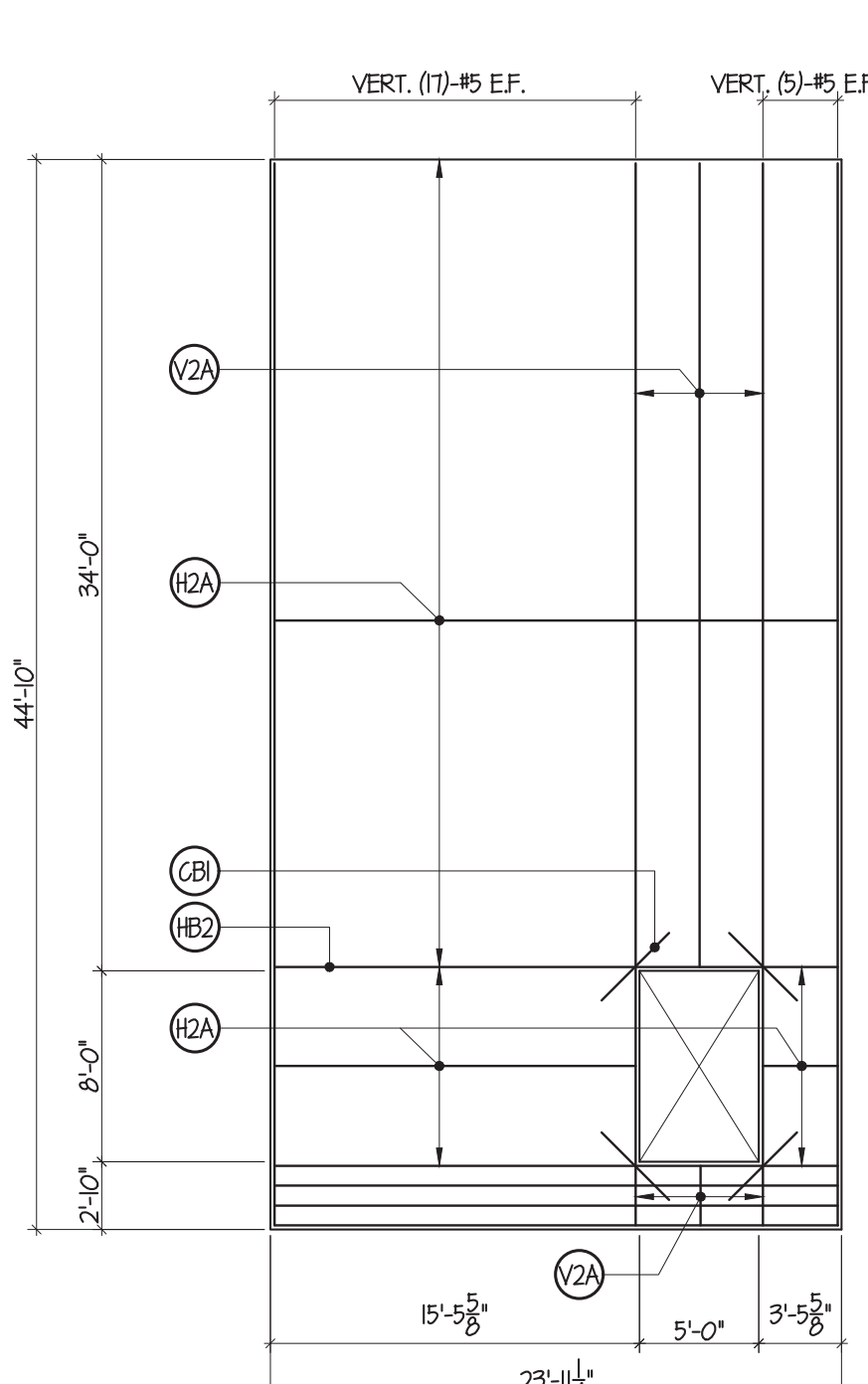


PANEL R41

1 REQUIRED

WB 9.25'

R41

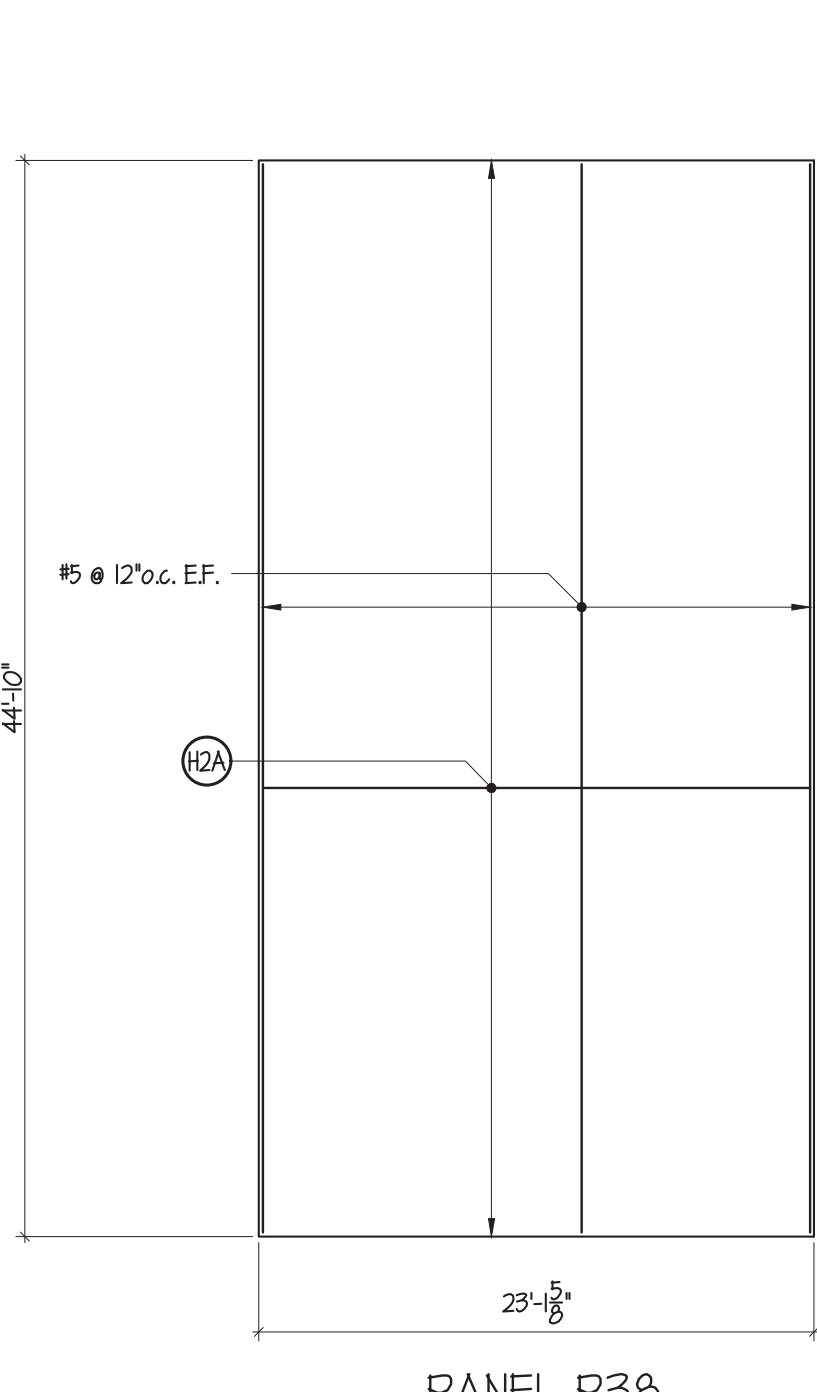


PANEL R40

1 REQUIRED

W2 9.25'

R40



PANEL R38

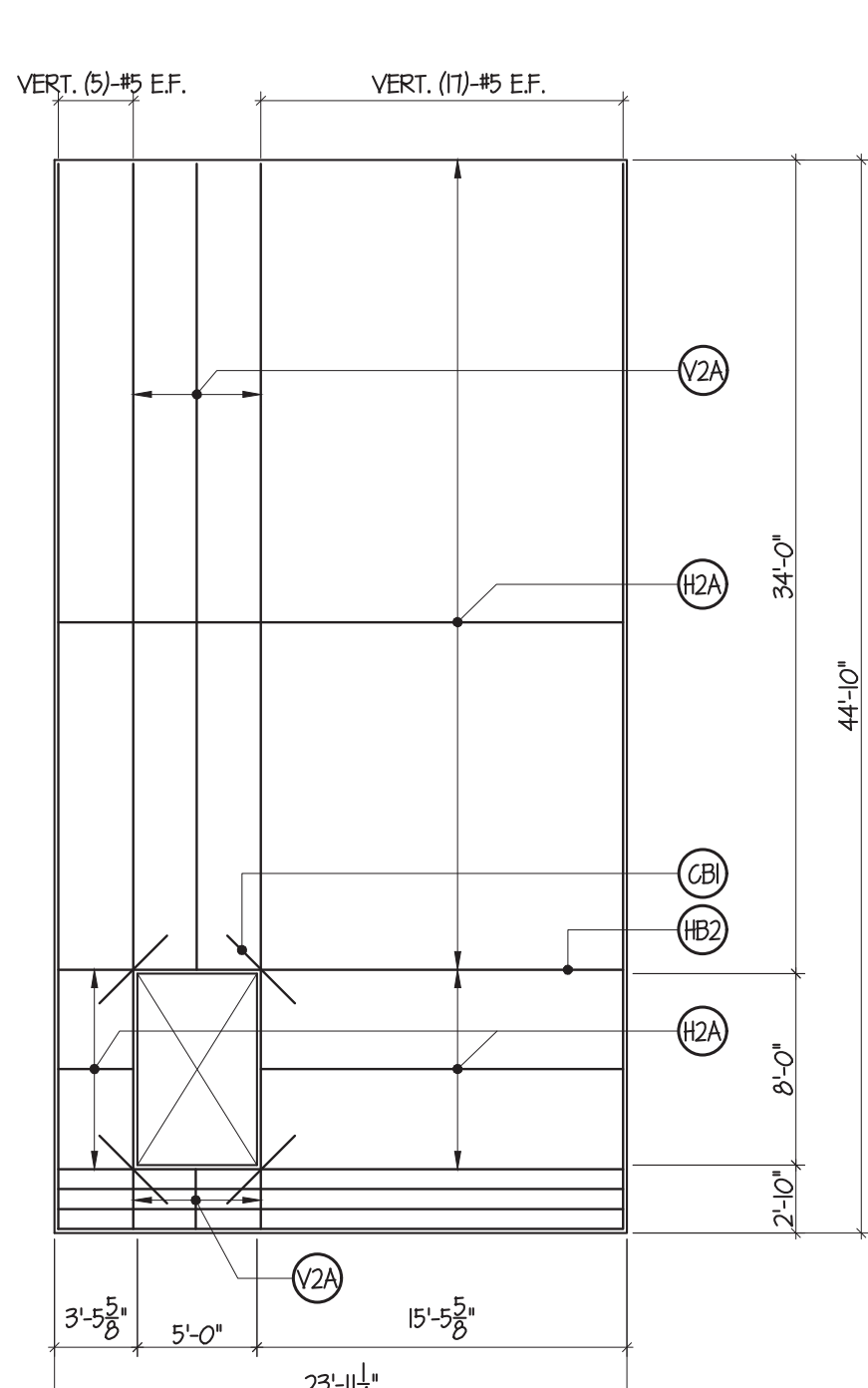
2 REQUIRED

E26 9.25'

W1 9.25'

R38

R38

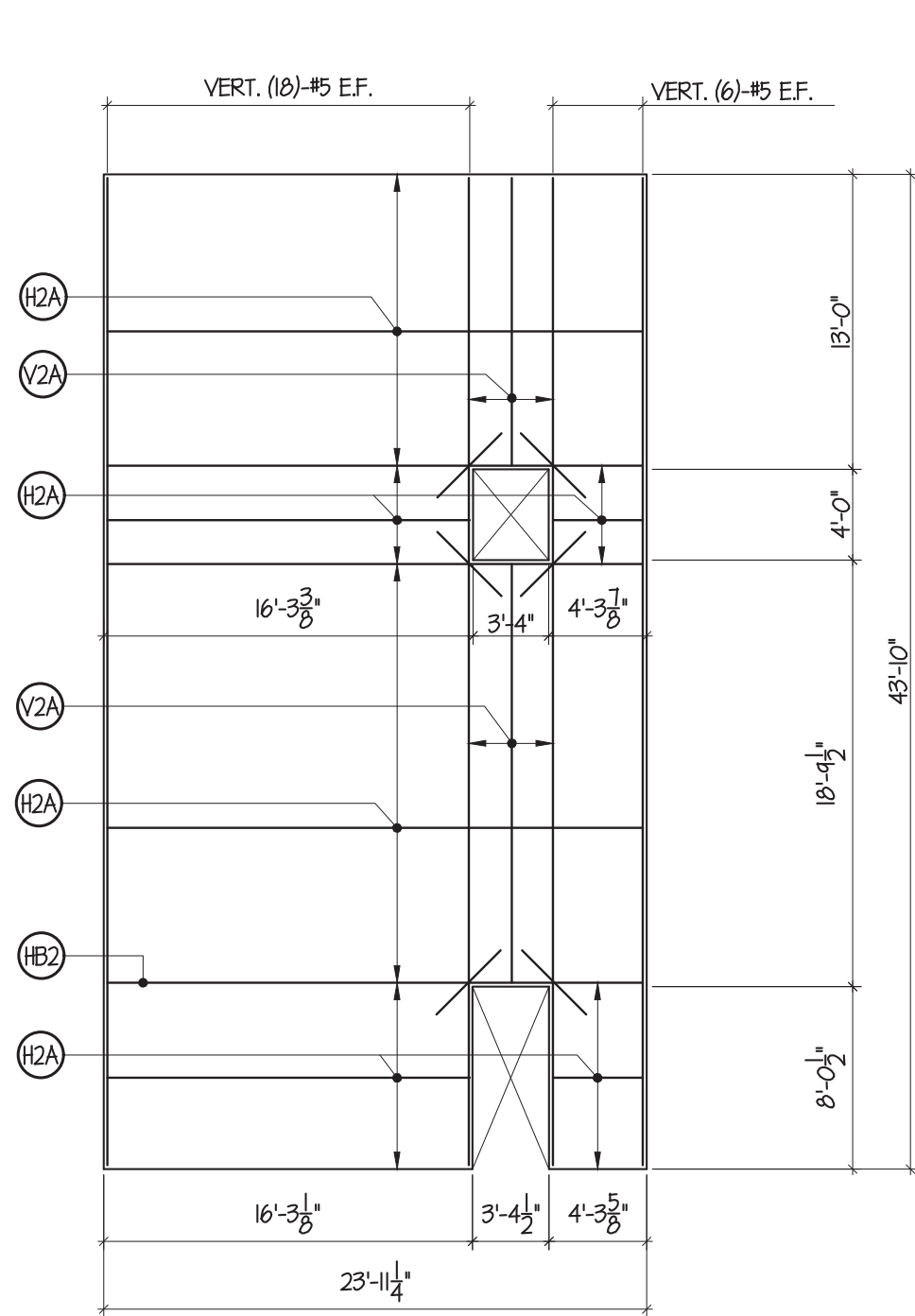


PANEL R37

1 REQUIRED

E25 9.25'

R37



PANEL R36

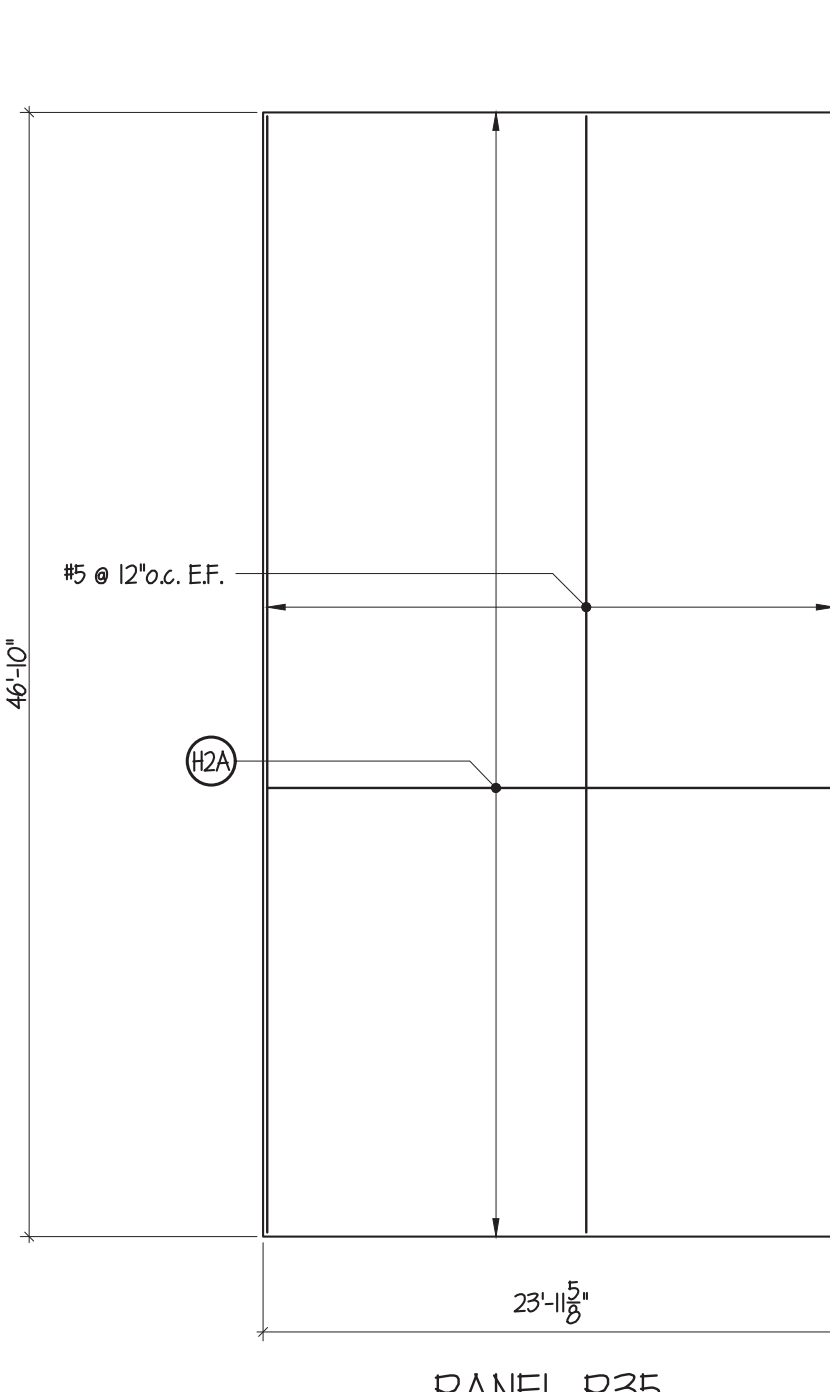
2 REQUIRED

EH 9.25'

WB 9.25'

R36

R36



PANEL R35

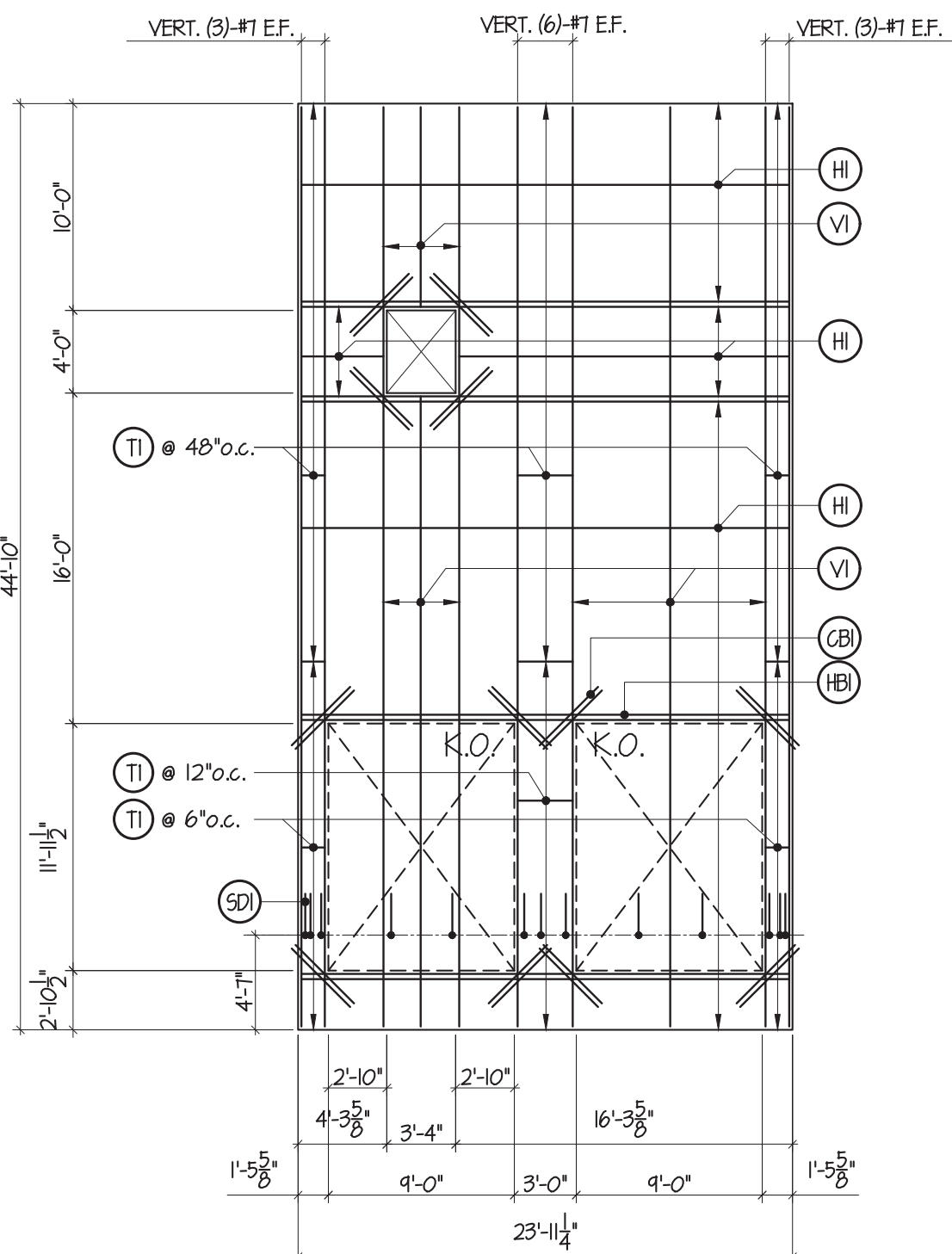
2 REQUIRED

E16 9.25'

W11 9.25'

R35

R35



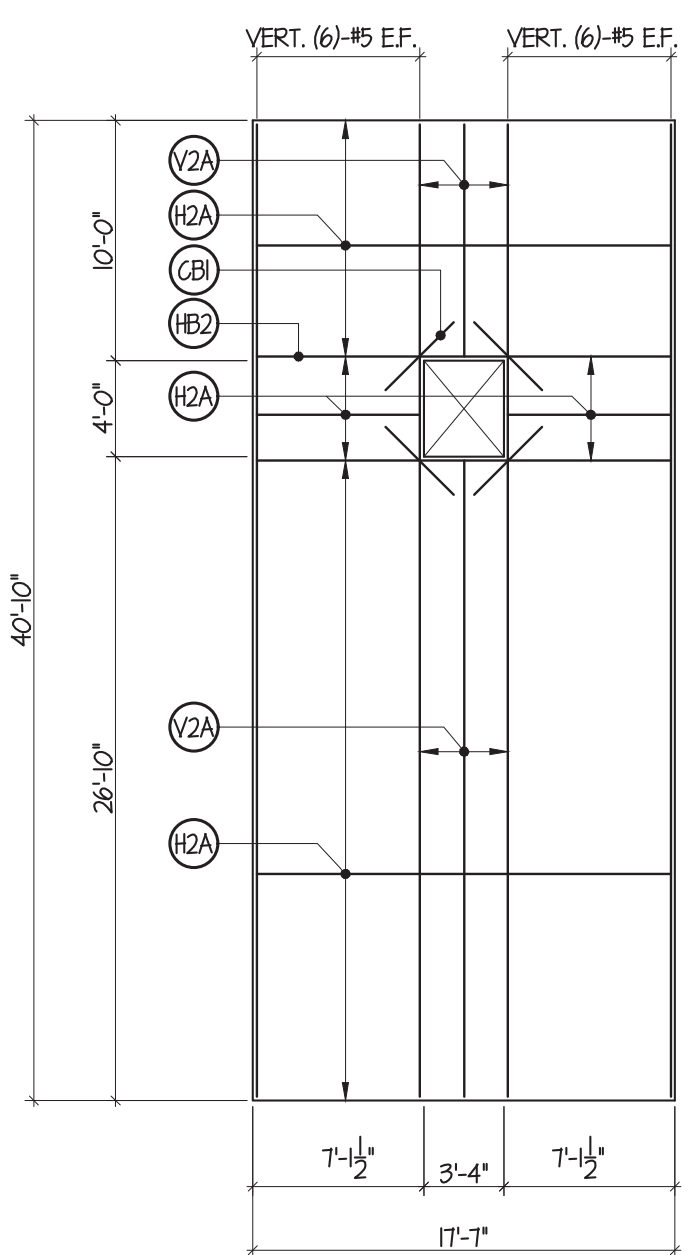
PANEL R46

1 REQUIRED

S32 9.25'

R46

△

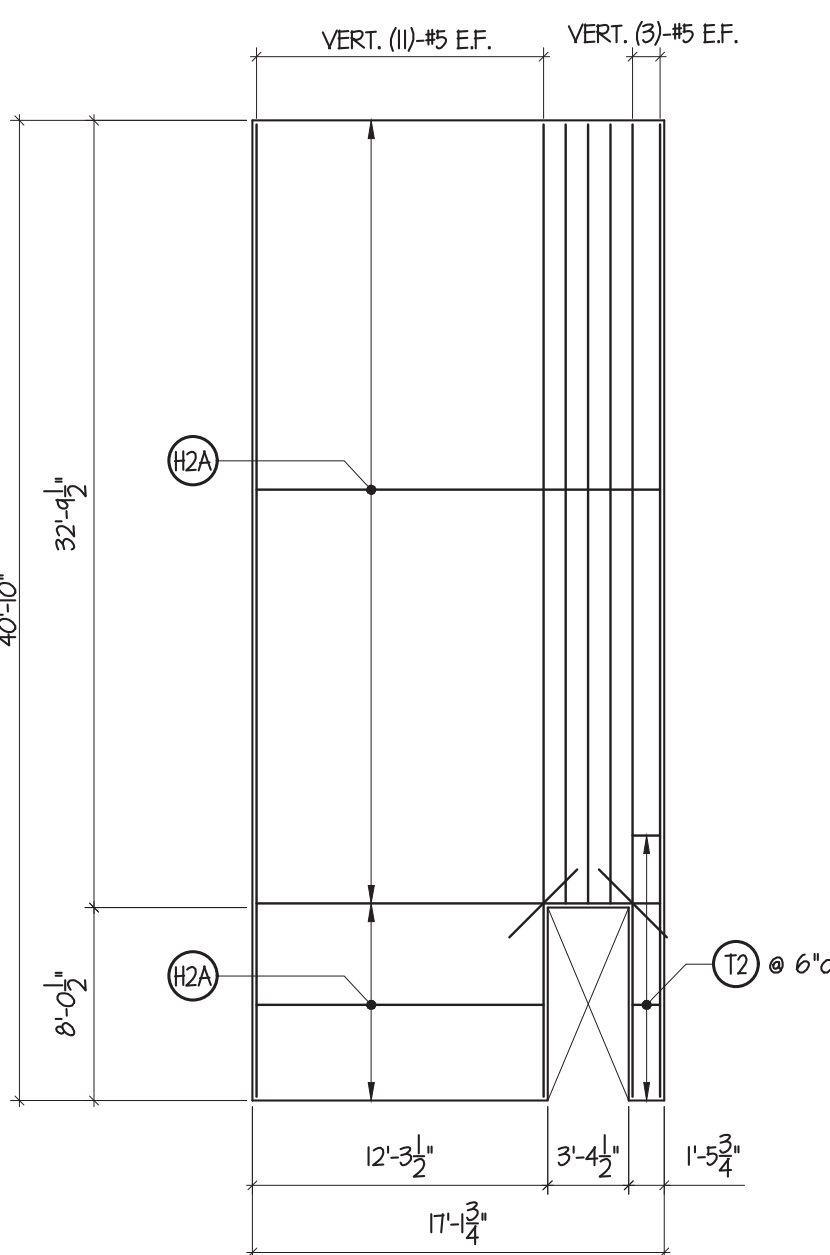


PANEL R45

1 REQUIRED

S6 9.25'

R45

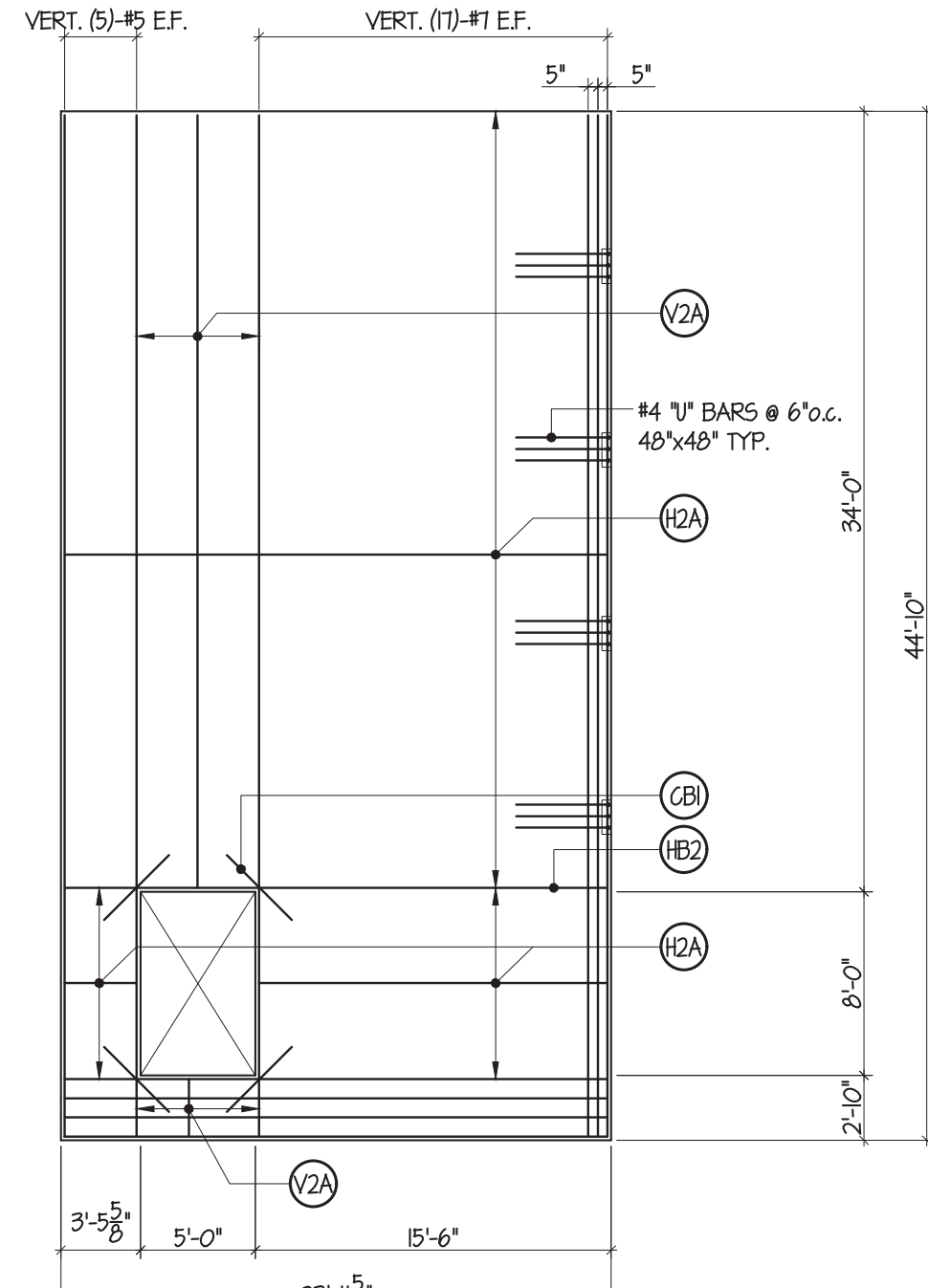


PANEL R44

1 REQUIRED

S4 9.25'

R44



PANEL R42

1 REQUIRED

W24 9.25'

R42



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Lee's Summit, MO 64086

ISSUE TYPE
FOR REVIEW AND APPROVAL
FIELD USE
REVISION 1

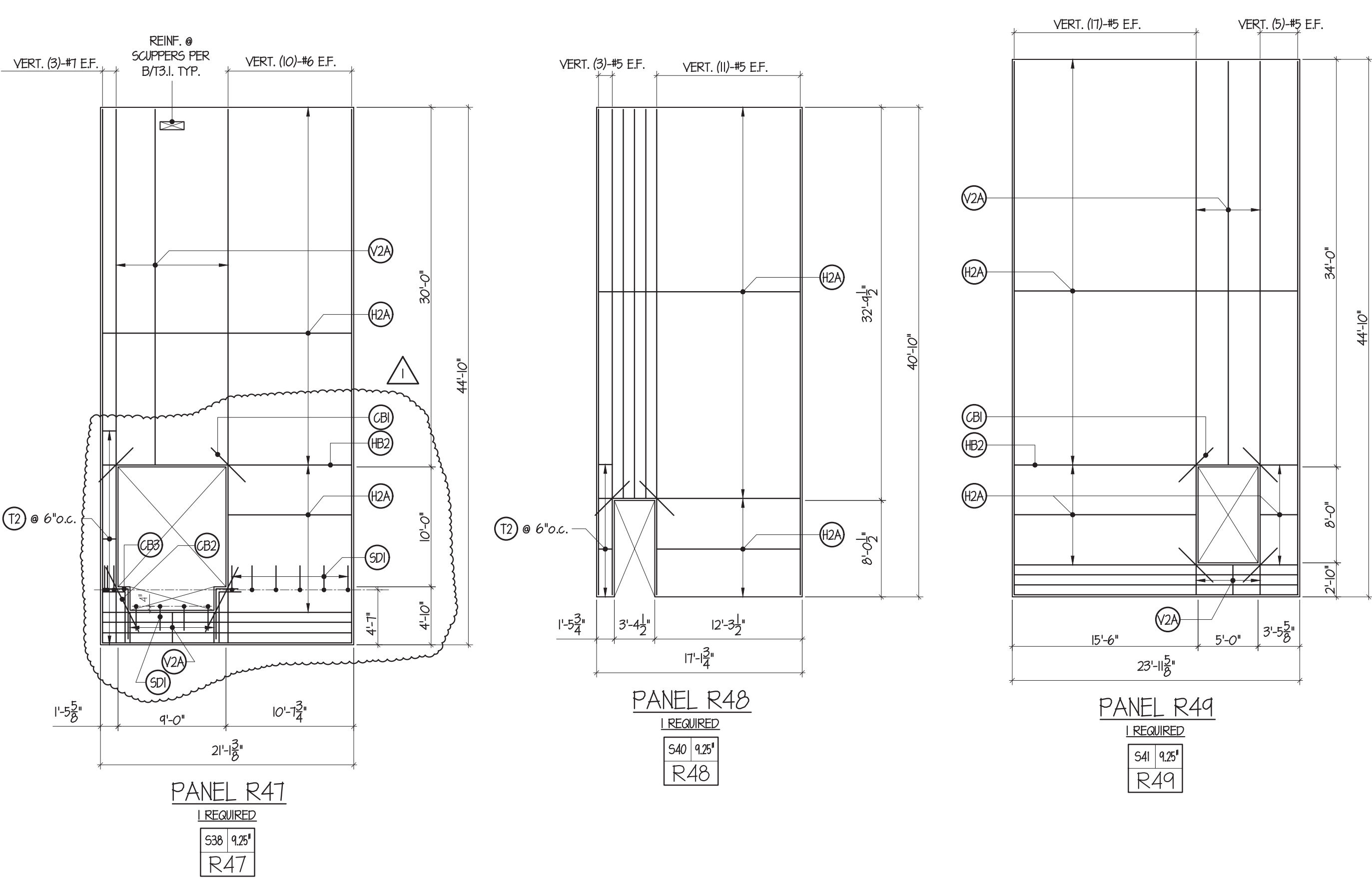
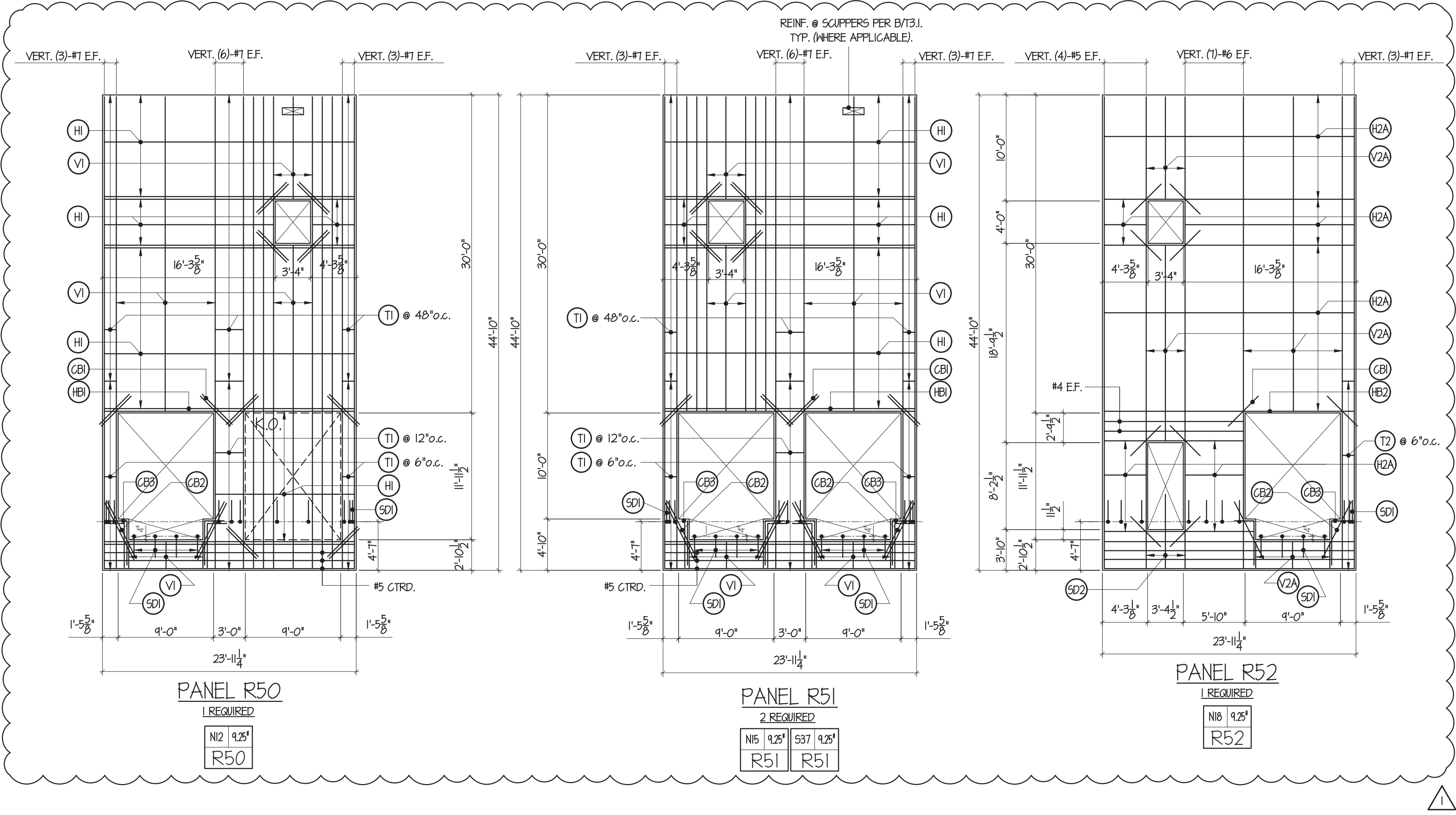
ISSUE DATE
2022-05-16
2022-06-09
2022-06-27

SHEET NO:

T4.5

FIELD USE 2022-06-09

REINFORCING SCHEDULE	
(V1)	VERT. #4 @ 16" o.c. CTRD.
(V2)	VERT. #4 @ 18" o.c. EF.
(V2A)	VERT. #4 @ 32" o.c. EF. EACH LAYER STAGGERED 16" o.c.
(H1)	HORZ. #5 @ 16" o.c. CTRD.
(H2)	HORZ. #4 @ 18" o.c. EF.
(H2A)	HORZ. #5 @ 32" o.c. EF. EACH LAYER STAGGERED 16" o.c.
(SD1)	#4 SLAB DOWELS @ 24"o.c. MAX. (min. 3 PER LEG/JAMB)
(SD2)	#4 x 1'-0" L.G. SLAB DOWELS @ 12"o.c. (FIELD BEND)
(CB1)	(2)-#5 x 4'-0" CORNER BARS (1) EF. OR (2) CTRD. @ 3' o.c.
(CB2)	(2)-#5 x 6'-0" CORNER BARS (1) EF. OR (2) CTRD. @ 3' o.c.
(CB3)	(2)-#5 CORNER BARS (1) EF. OR (2) CTRD. @ 3' o.c.
(T1)	#3 ONE PIECE TIE w/90° HOOKS
(T2)	#3 TWO PIECE TIE w/90° HOOKS
(T1) & (T2)	MAY BE USED INTERCHANGEABLY
(HB2)	HORIZONTAL BAR #5 EF. w/10" HOOKS EA. END (HOOK NOT REQ'D IF JAMB IS 30" OR MORE)
(HB1)	HORIZONTAL BAR (2)-#5 CTRD. @ 3' o.c. w/10" HOOKS EA. END (HOOK NOT REQ'D IF JAMB IS 30" OR MORE)





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ISSUE TYPE	ISSUE DATE
FOR REVIEW AND APPROVAL	2022-05-16
FIELD USE	2022-06-09
REVISION 1	2022-06-27

SHEET NO.:

T4.6

FIELD USE 2022-06-09

REINFORCING SCHEDULE	
(V1)	VERT. #4 @ 16" o.c. CT RD.
(V2)	VERT. #4 @ 18" o.c. EF.
(V2A)	VERT. #4 @ 32" o.c. EF. EACH LAYER STAGGERED 16" o.c.
(H1)	HORZ. #5 @ 16" o.c. CT RD.
(H2)	HORZ. #4 @ 18" o.c. EF.
(H2A)	HORZ. #5 @ 32" o.c. EF. EACH LAYER STAGGERED 16" o.c.
(SD1)	#4 SLAB DONNELS @ 24" o.c. MAX. (min. 3 PER LEG/JAMB)
(SD2)	#4 x 1'-0" L.G. SLAB DONNELS @ 12" o.c. (FIELD BEND)
(CB1)	(2)-#5 x 4'-0" CORNER BARS (1) EF. OR (2) CT RD. @ 3' o.c.
(CB2)	(2)-#5 x 6'-0" CORNER BARS (1) EF. OR (2) CT RD. @ 3' o.c.
(CB3)	(2)-#5 CORNER BARS (1) EF. OR (2) CT RD. @ 3' o.c.
(HB2)	HORIZONTAL BAR #5 EF. w/10" HOOKS EA. END (HOOK NOT REQ'D IF JAMB IS 30" OR MORE)
(HB1)	HORIZONTAL BAR (2)-#5 CT RD. @ 3' o.c. w/10" HOOKS EA. END (HOOK NOT REQ'D IF JAMB IS 30" OR MORE)

