LEE'S SUMMIT LOGISTICS
431K SPEC BUILDING

NE TUDOR RD & MAIN ST
LEE'S SUMMIT, MO
64086
06.06.22
INTERIOR BUILD OUT & SHELL COORDINATION WITH INTERIOR BUILD OUT

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

CIVIL ENGINEER
OLLSON
7301 W. 133RD ST. SUITE 200
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CURRAN
ARCHITECTURE
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INDIANAPOLIS, IN 46216
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CONTACT : SHAWN CURRAN

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

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

DRAWINGS INDEX

CIVIL - BUILD OUT
C4.01 DIMENSION PLAN
C4.02 DIMENSION PLAN
C5.01 GRADING PLAN
C5.02 GRADING PLAN
C5.05 GRADING DETAIL
L1.01 LANDSCAPE PLAN
L1.02 LANDSCAPE PLAN

ARCHITECTURAL - BUILD OUT
A108 ENLARGED LIFE SAFETY PLAN
A109 1ST FLOOR PLAN BUILD OUT
A110 ENLARGED FLOOR PLANS
A111 ENLARGED FLOOR PLANS
A112 OVERALL REFLECTED CEILING PLAN
A113 ENLARGED REFLECTED CEILING PLANS
A504 SECTIONS & DETAILS
A505 SECTIONS & DETAILS
A602 INTERIOR DOOR SCHEDULE
A603 FINISH SCHEDULE
A701 EXTERIOR ENCLOSURE
A702 COMPACTOR ENCLOSURE

STRUCTURAL - BUILD OUT
S0.0 GENERAL NOTES
S0.1 GENERAL NOTES
S1.0 OVERALL FOUNDATION PLAN
S1.1 ENLARGED PARTIAL FOUNDATION PLAN
S1.2 ENLARGED MEZZANINE ROOF FRAMING PLAN
S2.0 OVERALL FRAMING PLAN
S2.1 ENLARGED PARTIAL FRAMING PLAN
S2.2 ENLARGED PARTIAL FRAMING PLAN
S2.3 ENLARGED PARTIAL FRAMING PLAN
S2.4 ENLARGED PARTIAL FRAMING PLAN
S3.0 FOUNDATION DETAILS
S3.1 FRAMING DETAILS
S3.2 FOUNDATION DETAILS
S4.0 FRAMING DETAILS
S4.1 FRAMING DETAILS
S4.2 FRAMING DETAILS

MECHANICAL - BUILD OUT
M1.1 OVERALL MECHANICAL FLOOR PLAN
M1.2 ENLARGED MECHANICAL FLOOR PLANS
M1.3 ENLARGED MECHANICAL FLOOR PLANS
M2.1 SPECIFICATIONS & DETAILS
M3.1 MECHANICAL SCHEDULES

PLUMBING - BUILD OUT
P0.0 PLUMBING SPECIFICATIONS
P1.0 PLUMBING PLAN
P1.1 COMPRESSED AIR PLAN
P1.2 ENLARGED PLUMBING PLANS
P2.0 PLUMBING SCHEDULES AND DETAILS
P2.1 PLUMBING RISERS

ELECTRICAL - BUILD OUT
E1.0 WAREHOUSE LIGHTING
E1.1 OFFICE LIGHTING
E2.0 WAREHOUSE POWER
E2.1 OFFICE POWER
E3.0 HVAC POWER
E3.1 OFFICE HVAC
E4.0 SITE
E5.0 RISER
E6.0 PANEL SCHEDULE
E6.1 PANEL SCHEDULE

FIRE PROTECTION - BUILD OUT
FP0.0 SYSTEM NOTES
FP1.0 HYDRAULIC SITE PLAN
FP2.0 OVERHEAD PIPING LAYOUT
FP2.1.1 AREA 1: SYSTEMS 01-02
FP2.1.2 AREA 1 (CONT): SYSTEMS 01-02
FP2.2.1 AREA 2: SYSTEMS 02-03
FP2.2.2 AREA 2 9CONT): SYSTEMS 02-03
FP2.3.1 AREA 3: SYSTEMS 03-04
FP2.3.2 AREA 3 (CONT): SYSTEMS 03-04
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 (CONT): SYSTEMS 08-09
FP2.8.1 AREA 8: SYSTEMS 09-10
FP2.8.2 AREA 8 (CONT): SYSTEMS 09-10
FP2.9.1 AREA 9: SYSTEMS 10-11
FP2.9.2 AREA 9 (CONT): SYSTEMS 10-11
FP2.10 TENANT IMPROVEMENT OFFICE PLAN
FP2.11 TENANT IMPROVEMENT COOLER PLAN
FP3.0 FIRE PUMP & RISER DETAIL

DRAWINGS INDEX

COVER

CIVIL ENGINEERING
C200 SITE PLAN

ARCHITECTURAL
A001 SCOPE NOTES & CODE SUMMARY
A002 TYPICAL ACCESSIBILITY DETAILS
A100 LIFE SAFETY PLAN
A101 OVERALL FLOOR PLAN
A102 FLOOR PLAN - AREA A
A103 FLOOR PLAN - AREA B
A104 FLOOR PLAN - AREA C
A105 FLOOR PLAN - AREA D
A106 FLOOR PLAN - AREA E
A107 FLOOR PLAN - AREA F
A120 ROOF PLAN
A200 OVERALL EXTERIOR ELEVATIONS
A201 EXTERIOR ELEVATIONS
A202 EXTERIOR ELEVATIONS
A203 EXTERIOR ELEVATIONS
A204 EXTERIOR ELEVATIONS
A205 EXTERIOR ELEVATIONS
A206 EXTERIOR ELEVATIONS
A207 EXTERIOR ELEVATIONS
A301 WALL SECTIONS
A302 WALL SECTIONS
A303 WALL SECTIONS
A304 WALL SECTIONS
A501 TYPICAL TILT WALL BUILDING DETAILS
A502 TYPICAL TILT WALL BUILDING DETAILS
A503 TYPICAL TILT WALL BUILDING DETAILS
A601 DOOR SCHEDULE & STOREFRONT ELEVATIONS

STRUCTURAL
S0.0 GENERAL NOTES
S0.1 GENERAL NOTES
S1.0 OVERALL FOUNDATION PLAN
S1.1 ENLARGED PARTIAL FOUNDATION PLAN
S1.2 ENLARGED PARTIAL FOUNDATION PLAN
S1.3 ENLARGED PARTIAL FOUNDATION PLAN
S1.4 ENLARGED PARTIAL FOUNDATION PLAN
S2.0 OVERALL ROOF FRAMING PLAN
S2.1 ENLARGED PARTIAL FRAMING PLAN
S2.2 ENLARGED PARTIAL FRAMING PLAN
S2.3 ENLARGED PARTIAL FRAMING PLAN
S2.4 ENLARGED PARTIAL FRAMING PLAN
S2.5 ROOF DECK ATTACHMENT PLAN
S2.6 LATERAL LOAD PLAN
S3.0 FOUNDATION DETAILS
S3.1 FOUNDATION DETAILS
S3.2 FOUNDATION DETAILS
S3.3 FOUNDATION DETAILS
S4.0 FRAMING DETAILS
S4.1 FRAMING DETAILS
S4.2 FRAMING DETAILS
S4.3 FRAMING DETAILS

MECHANICAL
M1.1 OVERALL MECHANICAL PLAN
M2.1 MECHANICAL SCHEDULES

PLUMBING
P100 PARTIAL PLUMBING FLOOR PLAN UNIT A
P101 PARTIAL PLUMBING FLOOR PLAN UNIT B
P102 PARTIAL PLUMBING FLOOR PLAN UNIT C
P103 PARTIAL PLUMBING FLOOR PLAN UNIT D
P104 PARTIAL PLUMBING FLOOR PLAN UNIT E
P105 PARTIAL PLUMBING FLOOR PLAN UNIT F
P106 PLUMBING SPECIFICATIONS

ELECTRICAL
E1.00 LIGHTING PLAN
E2.00 POWER PLAN
E3.00 UNDERGROUND ELECTRICAL PLAN
E4.00 PHOTOMETRIC PLAN
E5.00 SITE LIGHTING PLAN
E6.00 ONE LINE DIAGRAM
E7.00 PANEL SCHEDULES

FIRE PROTECTION
FP0.0 SYSTEM NOTES
FP1.0 HYDRAULIC SITE PLAN
FP2.0 OVERHEAD PIPING LAYOUT
FP2.1 AREA 1 SYSTEMS 01-02
FP2.1.2 AREA 1 SYSTEMS CONT. 01-02
FP2.2.1 AREA 2 SYSTEMS 02-03
FP2.2.2 AREA 2 SYSTEMS CONT. 02-03
FP2.3.1 AREA 3 SYSTEMS 03-04
FP2.3.2 AREA 3 SYSTEMS CONT. 03-04
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 CONT. 08-09
FP28.1 AREA 8 SYSTEMS 09-10
FP2.8.2 AREA 8 SYSTEMS CONT. 09-10
FP2.9.1 AREA 9 SYSTEMS 10-11
FP2.9.2 AREA 9 SYSTEMS CONT. 10-11
FP3.0 FIRE PUMP AND RISER DETAIL

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

LEE'S SUMMIT LOGISTICS 431K SPEC
210300

CALCULATED 100 YEAR FLOODPLAIN (PRE-PROJECT CONDITIONS)

CALCULATED 100 YEAR FLOODPLAIN (POST-PROJECT CONDITIONS)

STREAM BUFFER

15' S/E DOC. 196210790128

15' S/E DOC. 196410851383

BMP EASEMENT

S. Line, Limits of "Zone X - Other Flood Areas" FEMA FIRM 29095C0417G Revised January 20, 2017

MATCHLINE SEE SHEET C4.02

MAIN STREET
SEE SEPARATE PUBLIC IMPROVEMENT PLANS FOR MAIN STREET RELOCATION.

20.00' BUILDING SETBACK

R=40.00' L=59.50'

R=40.00' L=58.49'

230.67'

175.69'

30.00'

74.99'

852.00'

10.00'

12.00' TYP.

55.00' TYP.

70.00'

60.00'

R=135.00' L=57.58'

R=30.00' L=52.78'

R=20.00' L=29.87'

R=10.00' L=16.94'

R=206.00' L=0.92'

R=165.00' L=25.26'

R=20.00' L=31.15'

R=20.00' L=31.42'

R=8.02'

R=3.00' L=4.67'

R=3.00' L=4.76'

15.97'

R=10.00' L=12.91' R=180.00' L=8.49'

7.00'

40.00'

5.00'

21.54'

28.25'

R=265.00' L=220.65'

R=235.00' L=168.14'

R=225.00' L=167.14'

R=101.00' L=117.42'

R=154.00' L=54.38'

24.86'

26.00'

7.00'

30.00'

5.00'

19.00'

26.00'

19.00' TYP.

STREAM BUFFER

Easement for Public Pavement Doc. 200410084967

CALCULATED 100 YEAR FLOODPLAIN (POST-PROJECT CONDITIONS)

CALCULATED 100 YEAR FLOODPLAIN (PRE-PROJECT CONDITIONS)

15' E/E DOC. 200410084967

15' S/E DOC. 196410851383

261.47'

199.20'

207.06'

30.00'

261.47'

3.59'

3.69'

7.00'

R=3.00' L=4.71'

45.00'

52.29'

382.97'

R=3.00' L=5.26'

15.82'

R=15.00' L=23.56'

R=14.00' L=19.43'

R=40.00' L=62.83'

R=8.00'

LOT 1
BUILDING A
431,460 SF

FFE=991.50

E. LINE, LIMITS OF "ZONE AE" FEMA FIRM 29095C0417G REVISED 01/20/2017

E. LINE, LIMITS OF "ZONE X-OTHER FLOOD AREAS" FEMA FIRM 29095C0417G REVISED 01/20/2017

MATCHLINE SEE SHEET C4.04

DIMENSION PLAN LEGEND

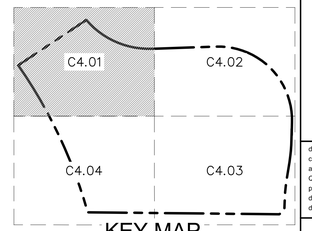
- PROPERTY LINE
- LOT LINE
- UTILITY EASEMENT
- BUILDING SET/BACK/LANDSCAPE BUFFER
- SAWCUT PAVEMENT FULL DEPTH
- ADA PATH – SIDEWALKS NOT DELINEATED AS ADA PATHS WILL NOT BE ADA COMPLIANT.
- PROPOSED STORM SEWER
- INSTALL STANDARD "WET" CURB & GUTTER (PER LEE'S SUMMIT STANDARD DETAIL)
- INSTALL STANDARD "DRY" CURB & GUTTER (PER LEE'S SUMMIT STANDARD DETAIL)
- INSTALL "ADA RAMP" CURB & GUTTER (PER LEE'S SUMMIT STANDARD DETAIL)
- INSTALL MEDIUM DUTY ASPHALT SEE PAVEMENT SECTION ON C3.00
- INSTALL HEAVY DUTY ASPHALT SEE PAVEMENT SECTION ON C3.00
- INSTALL HEAVY DUTY CONCRETE SEE PAVEMENT SECTION ON C3.00
- INSTALL CONCRETE SIDEWALK SEE PAVEMENT SECTION ON C3.00
- PROPOSED LIGHT POLE
- (XX) PROPOSED PARKING STALL COUNT

KEYNOTES (#)

1. CONSTRUCT ADA ACCESSIBLE RAMP. (SEE DETAIL SHEET)
2. PROPOSED ADA ACCESSIBLE PARKING SIGN. (SEE DETAIL SHEET). SIGNS PROVIDED BY TENANT.
3. ADA PARKING STALL LAYOUT. (SEE DETAIL SHEET)
4. PROPOSED PAVEMENT STRIPING. (SEE PAVEMENT STRIPING PLAN)
5. PROPOSED CONCRETE SIDEWALK. (SEE DETAIL SHEET)
6. PROPOSED TRANSFORMER. (SEE MEP PLANS)
7. PROPOSED CONCRETE APRON
8. PARKING AND STREET LIGHTING. (SEE SEPARATE PLAN SET)
9. PROPOSED ROOF DRAIN/DOWN SPOUT LOCATION. (SEE STORM SHEETS)
10. INSTALL YIELD/STOP SIGNS. (SEE ARCH PLANS)
11. PROPOSED TRAILER SPACING NUMBERING
12. PROPOSED DRY DETENTION BASIN
13. CONCRETE STAIRS (SEE DETAIL SHEET)
14. PROPOSED EV CHARGING STATION(SEE MEP/ARCH PLANS)
15. PROPOSED FIRE HYDRANT
16. PROPOSED RETAINING WALL WITH TRAFFIC RATED RAILING/FENCE
17. PROPOSED TRAILER PARKING DOLLY STRIP
18. PROPOSED TRASH ENCLOSURE (SEE ARCH PLANS)
19. PROPOSED GENERATOR ENCLOSURE (SEE ARCH PLANS)

N

0' 15' 30' 60'
SCALE IN FEET



KEY MAP
NOT TO SCALE

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7301 West 133rd Street, Suite 200
Overland Park, KS 66213-4750
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SCANNELL PROPERTIES

STATE OF MISSOURI
MITCHELL ALAN BLEAK
NUMBER PE-2009018764
07-7-22
PROFESSIONAL ENGINEER

REV. NO.	DATE	REVISIONS DESCRIPTION	BY
1	12.04.2021	CITY COMMENTS	
2	01.07.2022	CITY COMMENTS #2 AND OWNER CHANGES	
3	02.04.2022	CITY & EVERGY COMMENTS	
4	02.24.2022	CITY COMMENTS	
5	03.22.2022	EVERGY & MEP COMMENTS & SHOPS	
6	06.30.2022	PHASE 1A CHANGES	
7	07.08.2022	ZONETIS 11 CHANGES	

REVISIONS

DIMENSION PLAN
PHASE I FINAL DEVELOPMENT PLAN

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

LEE'S SUMMIT, MISSOURI

2021

drawn by: OLSSON
checked by: ENG
approved by: ENG
QA/QC by: ENG
project no.: 021-04157
drawing no.: C_DIM02_02104157.dwg
date:

SHEET
C4.01

DWG: F:\2021\04001-04500\021-04157\40-design\AutoCAD\final plans\Sheets\GNCV\PHASE 1\C_DIM02_02104157.dwg USER: sgillard
DATE: Jul 07, 2022 8:35am XREFS: C_PBASE_02104157 C_TBLK_02104157 C_XBASE_02104157 E_PBASE_02104157

MATCHLINE
SEE SHEET C4.01

15' S/E
DOC. 1962I0790128

PROPOSED FLOODPLAIN
EXISTING FLOODPLAIN

MAIN STREET
SEE SEPARATE PUBLIC IMPROVEMENT PLANS FOR MAIN STREET RELOCATION.

20.00' BUILDING SETBACK

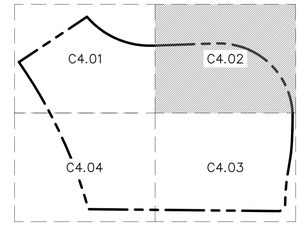
852.00'
10.00'
55.00'
12.00' TYP.
70.00'
75.00'
30.00'
R=40.00' L=61.59'
R=215.00' L=33.77'
R=785.00' L=41.18'
R=40.00' L=79.07'
R=20.00' L=31.42'
13.47'
R=40.00' L=55.33'
53.84'
29.00'
R=15.00' L=23.56'
R=20.00' L=31.42'
45.00'
R=4.00' L=6.28'
R=10.00' L=15.71'
60.00'
21.54'
28.25'
7.00'
15.00'
R=4.00' L=6.28'
28.00'
R=10.00' L=11.28'
R=10.00' L=11.28'
18.00'
15.32'
R=3.00' L=6.04'
R=3.00' L=6.04'
232.64'
9.00'
269.45'
19.00' TYP.
19.00' TYP.
19.00' TYP.
28.00'
28.00' TYP.
BMP EASEMENT
LOT 1
BUILDING A
431,460 SF
FFE=991.50
8.00'
8.00'
R=4.00' L=6.28'
15.00'
10.00'
36.00'
16.00'
12.50'
R=3.00' L=4.71'
7.00'
R=3.00' L=4.71'
R=8.00' L=8.47'
R=5.00' L=7.85'
28.00'
22.00'
30.72'
R=8.00' L=8.47'
R=3.00' L=6.25'
R=3.00' L=6.25'
20.50'
76.00'
20' E/E
DOC. 1990I0962914
10' E/E
DOC. 1990I0962912
R=3.00' L=5.32'
R=3.00' L=5.38'
R=3.00' L=5.58'
R=10.00' L=13.48'
15.83'
18.00'
31.80'
22.00'
R=3.00' L=5.32'
R=8.00' L=10.96'
R=10.00' L=13.48'
R=10.00' L=15.71'
R=8.00' L=10.96'
R=4.00'
R=5.00'
20.00' BUILDING SETBACK
MATCHLINE
SEE SHEET C4.03

DIMENSION PLAN LEGEND

- PROPERTY LINE
- LOT LINE
- UTILITY EASEMENT
- BUILDING SET/BACK/LANDSCAPE BUFFER
- SAWCUT PAVEMENT FULL DEPTH
- ADA PATH – SIDEWALKS NOT DELINEATED AS ADA PATHS WILL NOT BE ADA COMPLIANT.
- PROPOSED STORM SEWER
- INSTALL STANDARD "WET" CURB & GUTTER (PER LEE'S SUMMIT STANDARD DETAIL)
- INSTALL STANDARD "DRY" CURB & GUTTER (PER LEE'S SUMMIT STANDARD DETAIL)
- INSTALL "ADA RAMP" CURB & GUTTER (PER LEE'S SUMMIT STANDARD DETAIL)
- INSTALL MEDIUM DUTY ASPHALT SEE PAVEMENT SECTION ON C3.00
- INSTALL HEAVY DUTY ASPHALT SEE PAVEMENT SECTION ON C3.00
- INSTALL HEAVY DUTY CONCRETE SEE PAVEMENT SECTION ON C3.00
- INSTALL CONCRETE SIDEWALK SEE PAVEMENT SECTION ON C3.00
- PROPOSED LIGHT POLE
- (XX) PROPOSED PARKING STALL COUNT

KEYNOTES (#)

1. CONSTRUCT ADA ACCESSIBLE RAMP. (SEE DETAIL SHEET)
2. PROPOSED ADA ACCESSIBLE PARKING SIGN. (SEE DETAIL SHEET). SIGNS PROVIDED BY TENANT.
3. ADA PARKING STALL LAYOUT. (SEE DETAIL SHEET)
4. PROPOSED PAVEMENT STRIPING. (SEE PAVEMENT STRIPING PLAN)
5. PROPOSED CONCRETE SIDEWALK. (SEE DETAIL SHEET)
6. PROPOSED TRANSFORMER. (SEE MEP PLANS)
7. PROPOSED CONCRETE APRON
8. PARKING AND STREET LIGHTING. (SEE SEPARATE PLAN SET)
9. PROPOSED ROOF DRAIN/DOWN SPOUT LOCATION. (SEE STORM SHEETS)
10. INSTALL YIELD/STOP SIGNS. (SEE ARCH PLANS)
11. PROPOSED TRAILER SPACING NUMBERING
12. PROPOSED DRY DETENTION BASIN
13. CONCRETE STAIRS (SEE DETAIL SHEET)
14. PROPOSED EV CHARGING STATION(SEE MEP/ARCH PLANS)
15. PROPOSED FIRE HYDRANT
16. PROPOSED RETAINING WALL WITH TRAFFIC RATED RAILING/FENCE
17. PROPOSED TRAILER PARKING DOLLY STRIP
18. PROPOSED TRASH ENCLOSURE (SEE ARCH PLANS)
19. PROPOSED GENERATOR ENCLOSURE (SEE ARCH PLANS)
20. PROPOSED BOLLARD



KEY MAP
NOT TO SCALE

N
0' 15' 30' 60'
SCALE IN FEET

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

SCANNELL PROPERTIES

STATE OF MISSOURI
MITCHELL ALAN BLEAK
NUMBER PE-2009018764
07-7-22
PROFESSIONAL ENGINEER

REV. NO.	DATE	REVISIONS DESCRIPTION	BY
1	12.04.2021	CITY COMMENTS	
2	01.07.2022	CITY COMMENTS #2 AND OWNER CHANGES	
3	02.03.2022	CITY COMMENTS & SHOPS	
4	02.24.2022	CITY COMMENTS	
5	03.22.2022	EVERGY & MEP COMMENTS & SHOPS	
6	06.24.2022	WATER & MEP COMMENTS	
7	07.06.2022	ZONING TI CHANGES	

REVISIONS

DIMENSION PLAN
PHASE I FINAL DEVELOPMENT PLAN

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

LEE'S SUMMIT, MISSOURI

2021

drawn by: OLSSON
checked by: ENG
approved by: ENG
QA/QC by: ENG
project no.: 021-04157
drawing no.: DIM02_02104157.dwg
date:

SHEET
C4.02

DWG: F:\2021\04001-04500\021-04157\40-design\AutoCAD\final plans\Sheets\GNCV\PHASE I\C_DIM02_02104157.dwg USER: sgillard
DATE: Jul 07, 2022 8:35am XREFS: C_PBASE_02104157 C_XBASE_02104157 C_TBLK_02104157 E_PBASE_02104157

MATCHLINE
SEE SHEET C5.05

MATCHLINE
SEE SHEET C5.02

CALCULATED 100 YEAR FLOODPLAIN (PRE-PROJECT CONDITIONS)

CALCULATED 100 YEAR FLOODPLAIN (POST-PROJECT CONDITIONS)

STREAM BUFFER

STREAM BUFFER

STREAM BUFFER

REFERENCE PUBLIC IMPROVEMENT PLAN SET FOR GRADING OF MAIN STREET

MAIN STREET

LOT 1
BUILDING A
431,460 SF

FFE=991.50

CALCULATED 100 YEAR FLOODPLAIN (POST-PROJECT CONDITIONS)

CALCULATED 100 YEAR FLOODPLAIN (PRE-PROJECT CONDITIONS)

E. LINE, LIMITS OF "ZONE AE" FEMA FIRM 29095C0417G REVISED 01/20/2017

E. LINE, LIMITS OF "ZONE X-OTHER FLOOD AREAS" FEMA FIRM 29095C0417G REVISED 01/20/2017

MATCHLINE
SEE SHEET C5.04

LEGEND

- PROPERTY LINE
- SURROUNDING PROPERTY LINES
- UTILITY EASEMENT
- 950 — PROPOSED CONTOURS
- EXISTING CONTOURS
- GR.BR — GRADE BREAK LINE
- RIDGE — RIDGE LINE
- VALLEY — VALLEY LINE
- (X) — GRADING DETAIL LOCATIONS (SHEETS C5.05–C5.07)

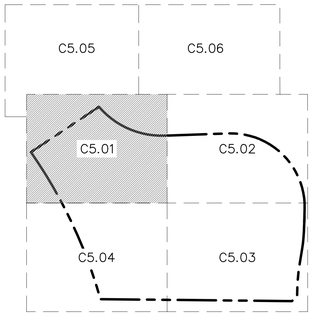
SPOT ELEVATION LEGEND:

ALL SPOT ELEVATIONS ARE TOP OF PAVEMENT ELEVATION UNLESS NOTED OTHERWISE. RE: PLAN VIEW, LEGEND AND DETAILS FOR CURB TYPE AND TO CALCULATE TOP OF CURB ELEVATION.

TC	TOP OF CURB
FG	FINISHED GRADE WITHIN GREENSPACE
TS	TOP OF STRUCTURE
FC	CURB DEPRESSED TO BE FLUSH WITH ADJACENT PAVEMENT
HP	HIGH POINT
LP	LOW POINT
ME±	MATCH EXISTING
FFE	FINISH FLOOR ELEVATION AT TOP OF SLAB
HFG	HIGH FINISHED GRADE
LFG	LOW FINISHED GRADE

NOTES:

1. CONTRACTOR TO REMOVE AND REPLACE ALL SIDEWALK NECESSARY FOR CONNECTION TO EXISTING.
2. ALL ADA ACCESSIBLE SIDEWALK CROSS SLOPES SHALL HAVE A MAXIMUM CROSS SLOPE OF 2.00% AND MAXIMUM LONGITUDINAL SLOPE OF 5.00%.
3. ALL ADA ACCESSIBLE PARKING AREAS SHALL NOT EXCEED 2.00% IN ANY DIRECTION.
4. CONTRACTOR TO PROVIDE FLAT A/C UNIT PADS FOR ALL A/C UNITS.
5. NO GRADES SHALL EXCEED 5:1 UNLESS OTHERWISE NOTES.
6. GRADING AND STORM SEWER IMPROVEMENTS SHALL BE STAKED, INCLUDING ALL HIGH POINTS AND KEY GRADE BREAKS.



KEY MAP
NOT TO SCALE

N

0' 15' 30' 60'
SCALE IN FEET

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

SCANNELL PROPERTIES

STATE OF MISSOURI
MITCHELL ALAN BLAIR
NUMBER PE-2009019764
07-1-22
PROFESSIONAL ENGINEER

REV. NO.	DATE	REVISIONS DESCRIPTION	BY
1	12.04.2021	CITY COMMENTS	
2	01.07.2022	CITY COMMENTS #2 AND OWNER CHANGES	
3	02.03.2022	CITY & EVERGY COMMENTS	
4	02.24.2022	CITY COMMENTS	
5	03.22.2022	EVERGY & MEP COMMENTS & SHOPS	
6	05.13.2022	WATER & FIRE COMMENTS	
7	07.06.2022	ZONETTS TI CHANGES	

REVISIONS

GRADING PLAN
PHASE I FINAL DEVELOPMENT PLAN

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

LEE'S SUMMIT, MISSOURI

2021

drawn by: OLSSON
checked by: ENG
approved by: ENG
QA/QC by: ENG
project no.: 021-04157
drawing no.: GR002_02104157.dwg
date:

SHEET
C5.01

DWG: F:\2021\04001-04500\021-04157\40-design\AutoCAD\final plans\Sheets\GNCV\PHASE I\C_GR002_02104157.dwg USER: sgillard
DATE: Jul 07, 2022 8:38am XREFS: C_PBASE_02104157 C_PSURF_02104157 C_TBLK_02104157 C_XBASE_02104157

MATCHLINE
SEE SHEET C5.06

MATCHLINE
SEE SHEET C5.01

MATCHLINE
SEE SHEET C5.03

PROPOSED FLOODPLAIN
EXISTING FLOODPLAIN

REFERENCE PUBLIC IMPROVEMENT PLAN SET FOR GRADING OF MAIN STREET

MAIN STREET

LOT 1
BUILDING A
431,460 SF

FFE=991.50

LEGEND

- PROPERTY LINE
- SURROUNDING PROPERTY LINES
- UTILITY EASEMENT
- 950 — PROPOSED CONTOURS
- EXISTING CONTOURS
- GR.BR — GRADE BREAK LINE
- RIDGE — RIDGE LINE
- VALLEY — VALLEY LINE
- (X) GRADING DETAIL LOCATIONS (SHEETS C5.05–C5.07)

SPOT ELEVATION LEGEND:

ALL SPOT ELEVATIONS ARE TOP OF PAVEMENT ELEVATION UNLESS NOTED OTHERWISE. RE: PLAN VIEW, LEGEND AND DETAILS FOR CURB TYPE AND TO CALCULATE TOP OF CURB ELEVATION.

TC	TOP OF CURB
FG	FINISHED GRADE WITHIN GREENSPACE
TS	TOP OF STRUCTURE
FC	CURB DEPRESSED TO BE FLUSH WITH ADJACENT PAVEMENT
HP	HIGH POINT
LP	LOW POINT
ME±	MATCH EXISTING
FFE	FINISH FLOOR ELEVATION AT TOP OF SLAB
HFG	HIGH FINISHED GRADE
LFG	LOW FINISHED GRADE

NOTES:

1. CONTRACTOR TO REMOVE AND REPLACE ALL SIDEWALK NECESSARY FOR CONNECTION TO EXISTING.
2. ALL ADA ACCESSIBLE SIDEWALK CROSS SLOPES SHALL HAVE A MAXIMUM CROSS SLOPE OF 2.00% AND MAXIMUM LONGITUDINAL SLOPE OF 5.00%.
3. ALL ADA ACCESSIBLE PARKING AREAS SHALL NOT EXCEED 2.00% IN ANY DIRECTION.
4. CONTRACTOR TO PROVIDE FLAT A/C UNIT PADS FOR ALL A/C UNITS.
5. NO GRADES SHALL EXCEED 5:1 UNLESS OTHERWISE NOTES.
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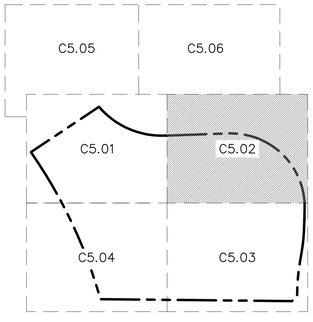

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4	02.24.2022	CITY COMMENTS	
5	06.22.2022	EVERGY & MEP COMMENTS & SHOPS	
6	07.01.2022	WATER MAIN	
7	07.06.2022	ZONETIS 11 CHANGES	

REVISIONS

GRADING PLAN
PHASE I FINAL DEVELOPMENT PLAN

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

LEE'S SUMMIT, MISSOURI

2021

drawn by: OLSSON
checked by: ENG
approved by: ENG
QA/QC by: ENG
project no.: 021-04157
drawing ID: GRD02_02104157.dwg
date:

SHEET
C5.02

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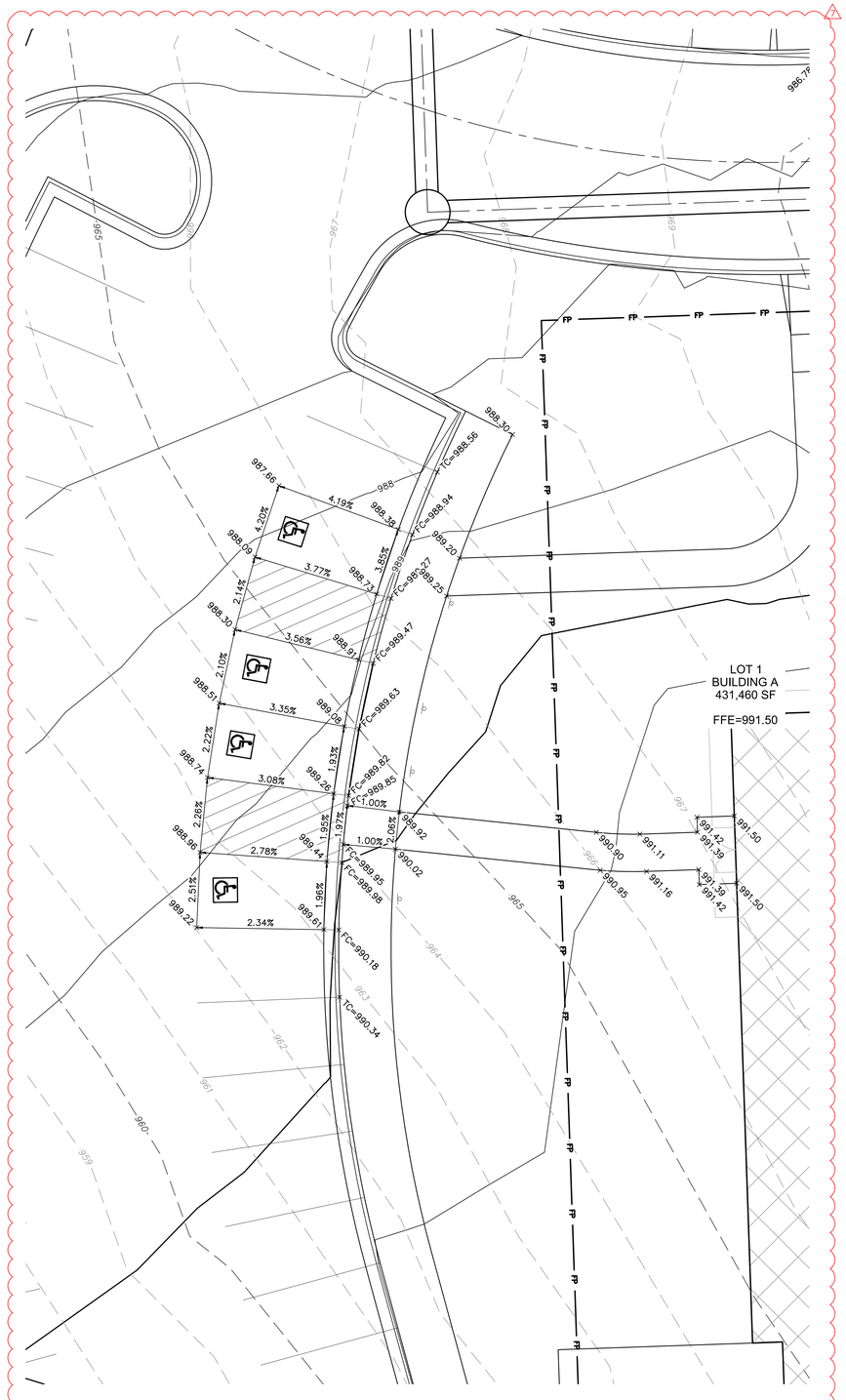
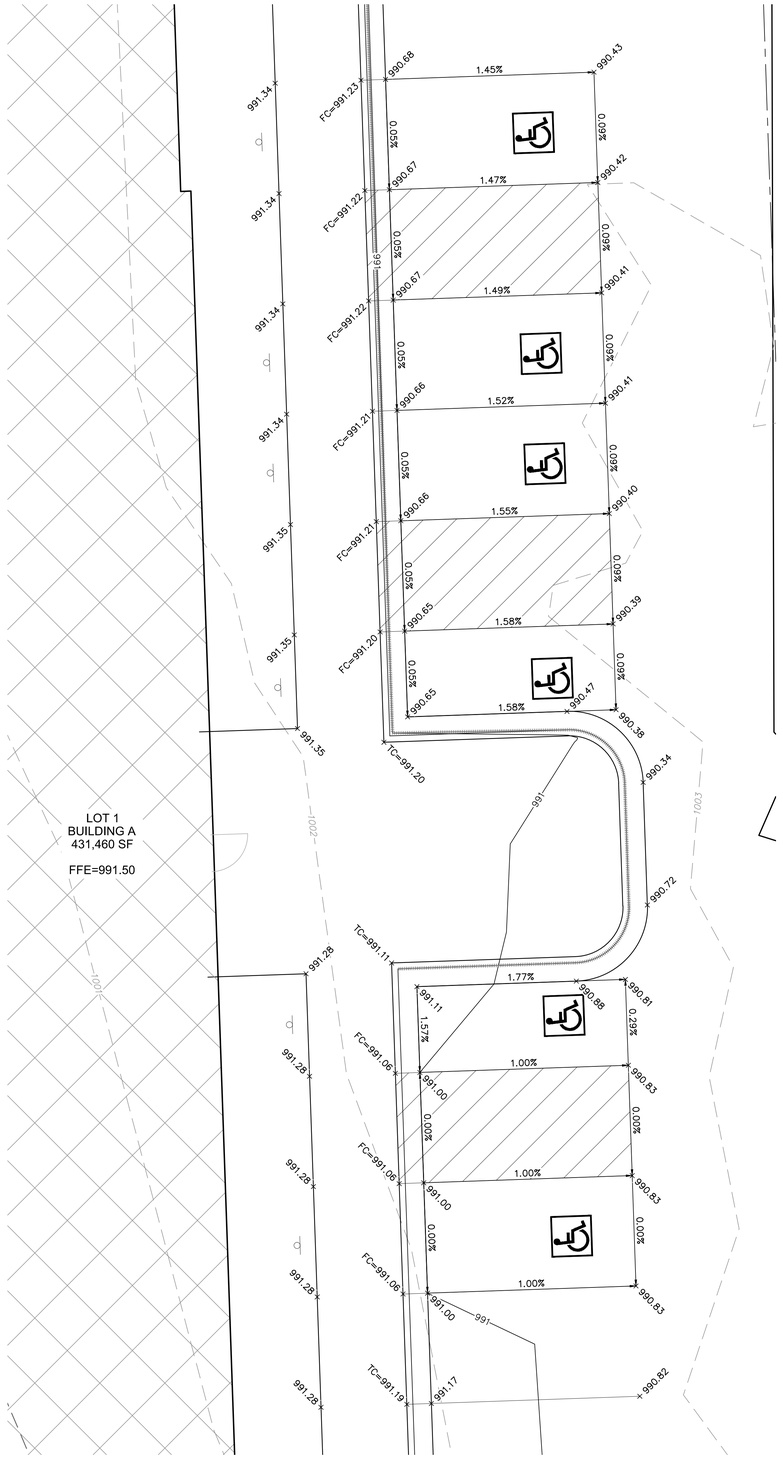


1 GRADING DETAIL



2 GRADING DETAIL

LEGEND

- PROPERTY LINE
- SURROUNDING PROPERTY LINES
- UTILITY EASEMENT
- 950 — PROPOSED CONTOURS
- EXISTING CONTOURS
- GR,BR — GRADE BREAK LINE
- RIDGE — RIDGE LINE
- VALLEY — VALLEY LINE
- (X) GRADING DETAIL LOCATIONS (SHEETS C509–C515)

SPOT ELEVATION LEGEND:

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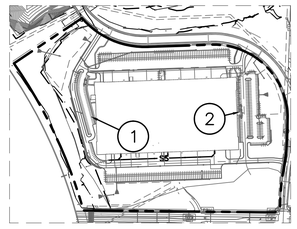

KEY MAP
NOT TO SCALE

N

0' 2.5' 5' 10'
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SCANNELL PROPERTIES

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MITCHELL ALAN BLEAK
NUMBER PE-2009018764
07-31-22
PROFESSIONAL ENGINEER

REV. NO.	DATE	REVISIONS DESCRIPTION	BY
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4	02.24.2022	CITY COMMENTS	
5	03.22.2022	EVERGY & MEP COMMENTS & SHOPS	
6	06.15.2022	KCMO COMMENTS	
7	07.06.2022	ZONING TI CHANGES	

REVISIONS

GRADING DETAIL
PHASE I FINAL DEVELOPMENT PLAN

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

LEE'S SUMMIT, MISSOURI

2021

drawn by: OLSSON
checked by: ENG
approved by: ENG
QA/QC by: ENG
project no.: 021-04157
drawing no.: GR003_02104157.dwg
date:

SHEET
C5.05

DWG: F:\2021\04001-04500\021-04157\40-design\AutoCAD\final plans\Sheets\GNCV\PHASE I\C_GR003_02104157.dwg USER: sgillard
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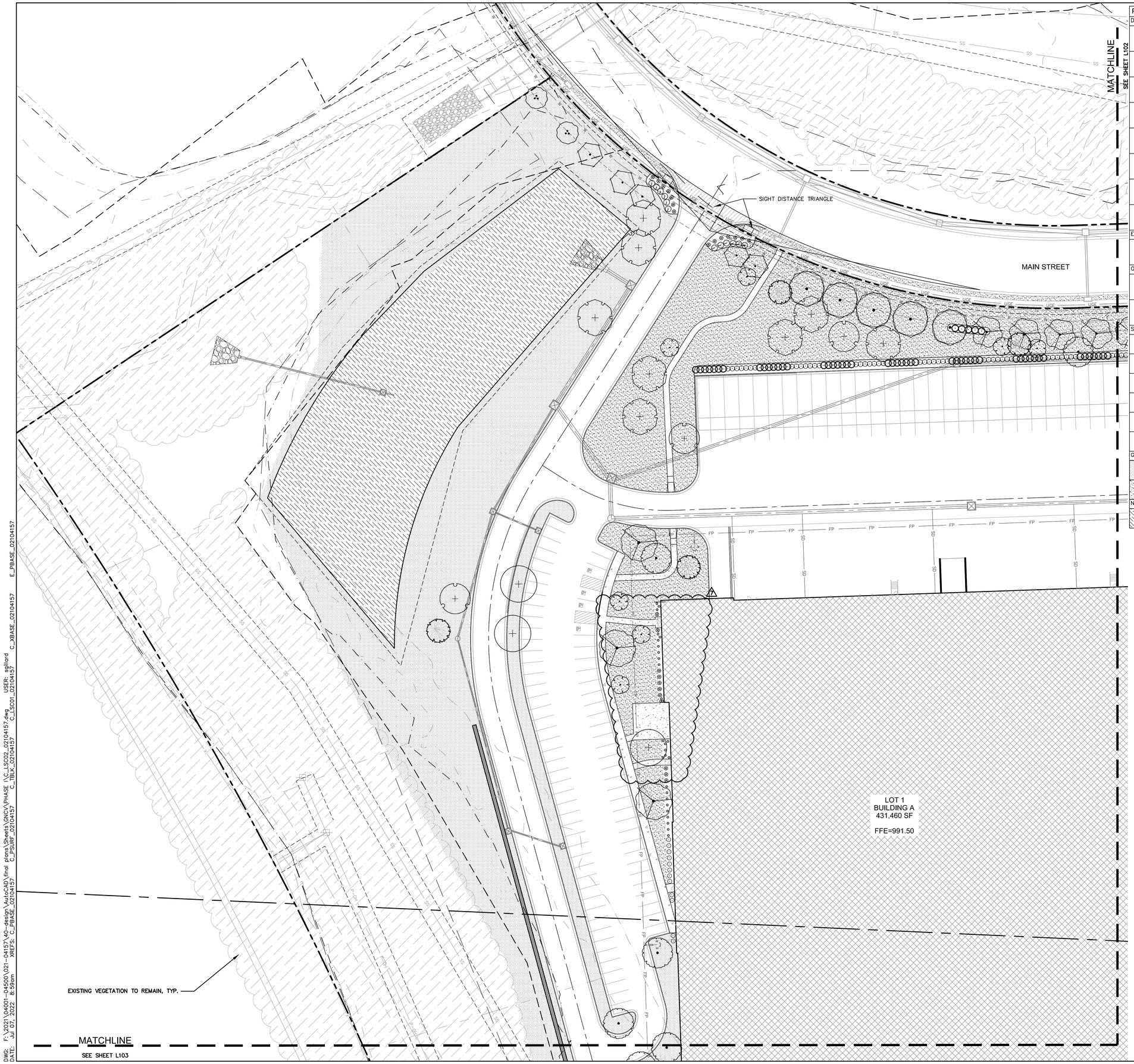
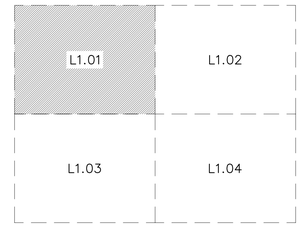


PLANT SCHEDULE L1.01		
DECIDUOUS TREES	BOTANICAL / COMMON NAME	QTY
	ACER MIYABEI 'STATE STREET' MIYABEI MAPLE	5
	EUCOMMIA ULMOIDES HARDY RUBBER TREE	3
	GLEDITSIA TRIACANTHOS INERMIS 'SHADEMASTER' SHADEMASTER LOCUST	3
	PLATANUS X ACERIFOLIA 'EXCLAMATION' TM EXCLAMATION LONDON PLANE TREE	8
	QUERCUS MACROCARPA BURR OAK	3
	QUERCUS SHUMARDII SHUMARD RED OAK	4
	TILIA AMERICANA 'BOULEVARD' BOULEVARD LINDEN	4
	ZELKOVA SERRATA 'MUSASHINO' SAWLEAF ZELKOVA	5
EVERGREEN TREES	BOTANICAL / COMMON NAME	QTY
	PICEA ABIES NORWAY SPRUCE	4
ORNAMENTAL TREES	BOTANICAL / COMMON NAME	QTY
	CERCIS CANADENSIS EASTERN REDBUD	2
	MALUS X 'PRAIRIFIRE' PRAIRIFIRE CRABAPPLE	7
SHRUBS	BOTANICAL / COMMON NAME	QTY
	BUXUS X 'GREEN VELVET' BOXWOOD	12
	DIERVILLA RIVULARIS 'KODIAK ORANGE' KODIAK ORANGE BUSH-HONEYSUCKLE	24
	JUNIPERUS CHINENSIS 'GOLD LACE' GOLD LACE JUNIPER	12
	JUNIPERUS CHINENSIS 'SEA GREEN' SEA GREEN JUNIPER	54
	PANICUM VIRGATUM 'NORTH WIND' NORTHWIND SWITCH GRASS	29
	VIBURNUM NUDUM 'WINTERTHUR' WINTERTHUR VIBURNUM	44
GROUND COVERS	BOTANICAL / COMMON NAME	QTY
	FESTUCA TURF TYPE TALL FESCUE BLEND	4,999 SF
	FESTUCA TURF TYPE TALL FESCUE BLEND	67,277 SF
NATIVE VEGETATION	BOTANICAL / COMMON NAME	QTY
	PANICUM VIRGATUM SWITCH GRASS	40,043 SF

SEE SHEET L1.0 FOR COMPLETE PLANT SCHEDULE FOR SIZE AND TOTAL QUANTITIES.

NOTE: ALL EQUIPMENT MUST BE SCREENED WHETHER OR NOT INDICATED ON PLANS. FIELD ADJUSTMENTS MAY BE NECESSARY TO ACCOMMODATE SITE CONDITIONS EQUIPMENT AND LANDSCAPE. COORDINATE WITH LANDSCAPE ARCHITECT FOR ADEQUATE SCREENING. MUST MEET CITY REQUIREMENTS.



KEY MAP
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5	03.22.2022	EVERGY & MEP COMMENTS & SHOPS	
6	04.14.2022	MAIN ST. CHANGES	
7	07.06.2022	ZONETS T CHANGES	

REVISIONS

LANDSCAPE PLAN
PHASE I FINAL DEVELOPMENT PLAN

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

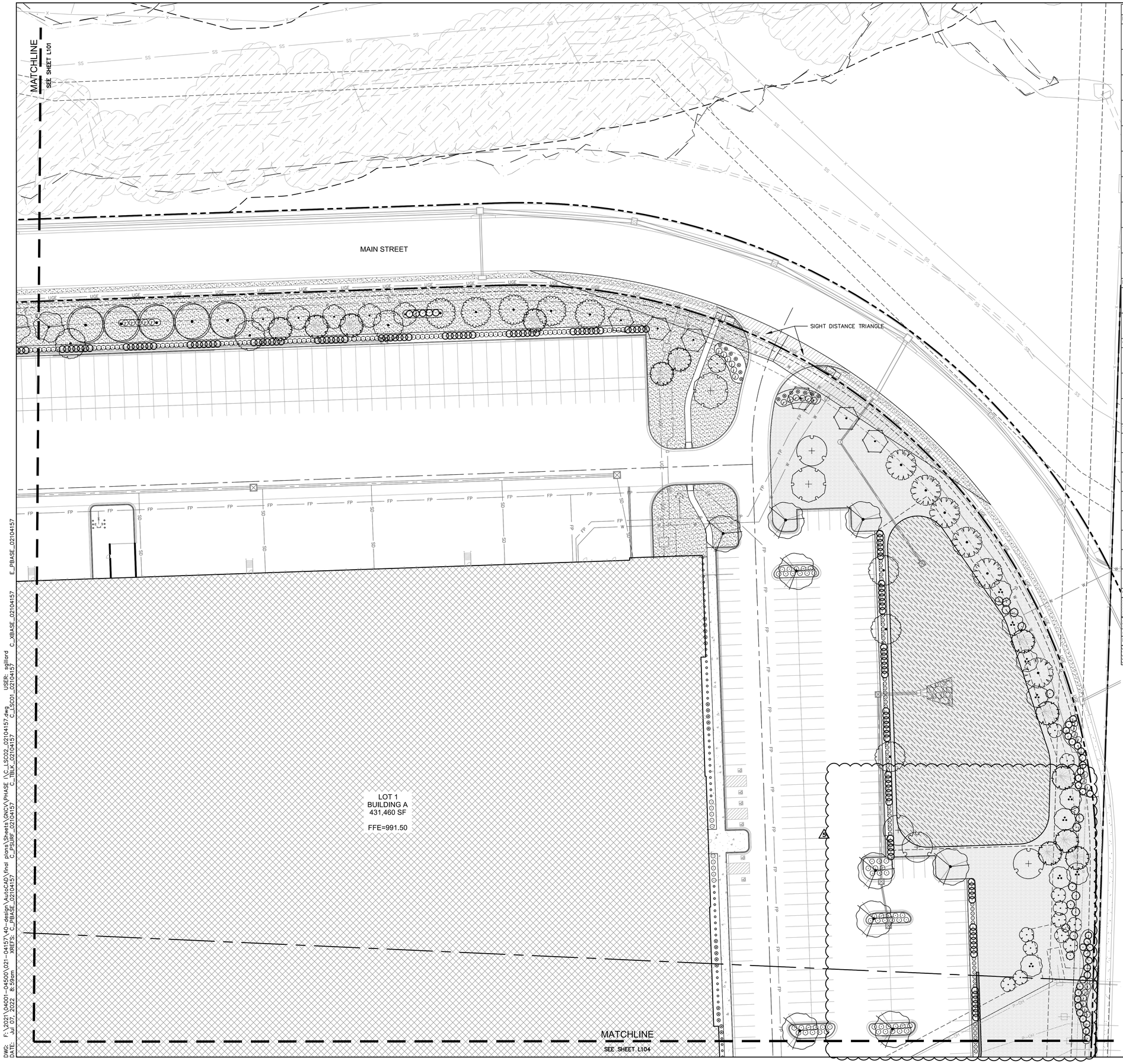
LEE'S SUMMIT, MISSOURI

2021

drawn by: OLSSON
checked by: ENG
approved by: ENG
QA/QC by: ENG
project no.: 021-04157
drawing #: L_LSC02_02104157.dwg
date:

SHEET
L1.01

DWG: F:\2021\04001-04500\021-04157\40-design\AutoCAD\final plans\Sheets\GNCV\PHASE I\C_LSC02_02104157.dwg USER: sgillard
DATE: Jul 07, 2022 8:59am XREFS: C_PBASE_02104157 C_PSURF_02104157 C_TBLK_02104157 C_LSC01_02104157 C_XBASE_02104157 E_PBASE_02104157



PLANT SCHEDULE L1.02		
DECIDUOUS TREES	BOTANICAL / COMMON NAME	QTY
	EUCOMMIA ULMOIDES HARDY RUBBER TREE	4
	GINKGO BILOBA 'PRINCETON SENTRY' PRINCETON SENTRY GINKGO	5
	GLEDITSIA TRIACANTHOS INERMIS 'SHADEMASTER' SHADEMASTER LOCUST	9
	PLATANUS X ACERIFOLIA 'EXCLAMATION' TM EXCLAMATION LONDON PLANE TREE	2
	QUERCUS BICOLOR SWAMP WHITE OAK	5
	QUERCUS SHUMARDII SHUMARD RED OAK	6
	TAXODIUM DISTICHUM 'SHAWNEE BRAVE' TM BALD CYPRESS	5
	TILIA AMERICANA 'BOULEVARD' BOULEVARD LINDEN	1
	ULMUS PROPINQUA 'EMERALD SUNSHINE' EMERALD SUNSHINE ELM	6
	ZELKOVA SERRATA 'MUSASHINO' SAWLEAF ZELKOVA	6
EVERGREEN TREES	BOTANICAL / COMMON NAME	QTY
	JUNIPERUS VIRGINIANA 'CANAERTII' CANAERTI JUNIPER	16
	PICEA ABIES NORWAY SPRUCE	12
ORNAMENTAL TREES	BOTANICAL / COMMON NAME	QTY
	AMELANCHIER CANADENSIS 'AUTUMN BRILLIANCE' AUTUMN BRILLIANCE SERVICEBERRY	12
	CERCIS CANADENSIS EASTERN REDBUD	9
	MALUS X 'PRAIRIFIRE' PRAIRIFIRE CRABAPPLE	1
SHRUBS	BOTANICAL / COMMON NAME	QTY
	BUXUS X 'GREEN VELVET' BOXWOOD	10
	CORNUS STOLONIFERA 'FARROW' TM ARCTIC FIRE RED TWIG DOGWOOD	48
	DIERVILLA RIVULARIS 'KODIAK ORANGE' KODIAK ORANGE BUSH-HONEYSUCKLE	34
	JUNIPERUS CHINENSIS 'GOLD LACE' GOLD LACE JUNIPER	28
	JUNIPERUS CHINENSIS 'SEA GREEN' SEA GREEN JUNIPER	157
	PANICUM VIRGATUM 'NORTH WIND' NORTHWIND SWITCH GRASS	45
	RHUS AROMATICA 'GRO-LOW' GRO-LOW FRAGRANT SUMAC	53
	VIBURNUM NUDUM 'WINTERTHUR' WINTERTHUR VIBURNUM	66
GROUND COVERS	BOTANICAL / COMMON NAME	QTY
	FESTUCA TURF TYPE TALL FESCUE BLEND	93,653 SF
	FESTUCA TURF TYPE TALL FESCUE BLEND	64,616 SF
NATIVE VEGETATION	BOTANICAL / COMMON NAME	QTY
	PANICUM VIRGATUM SWITCH GRASS	27,204 SF

SEE SHEET L1.0 FOR COMPLETE PLANT SCHEDULE FOR SIZE AND TOTAL QUANTITIES.

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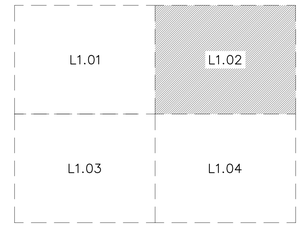

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7	07.08.2022	ZONTES TI CHANGES	

REVISIONS

LANDSCAPE PLAN
PHASE I FINAL DEVELOPMENT PLAN

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

LEE'S SUMMIT, MISSOURI

2021

drawn by: OLSSON
checked by: ENG
approved by: ENG
QA/QC by: ENG
project no.: 021-04157
drawing #: L_LSC02_02104157.dwg
date:

SHEET
L1.02

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SCOPE NOTES

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

ALL WOOD SHEATHING TO BE FIRE TREATED UNLESS NOTED OTHERWISE.

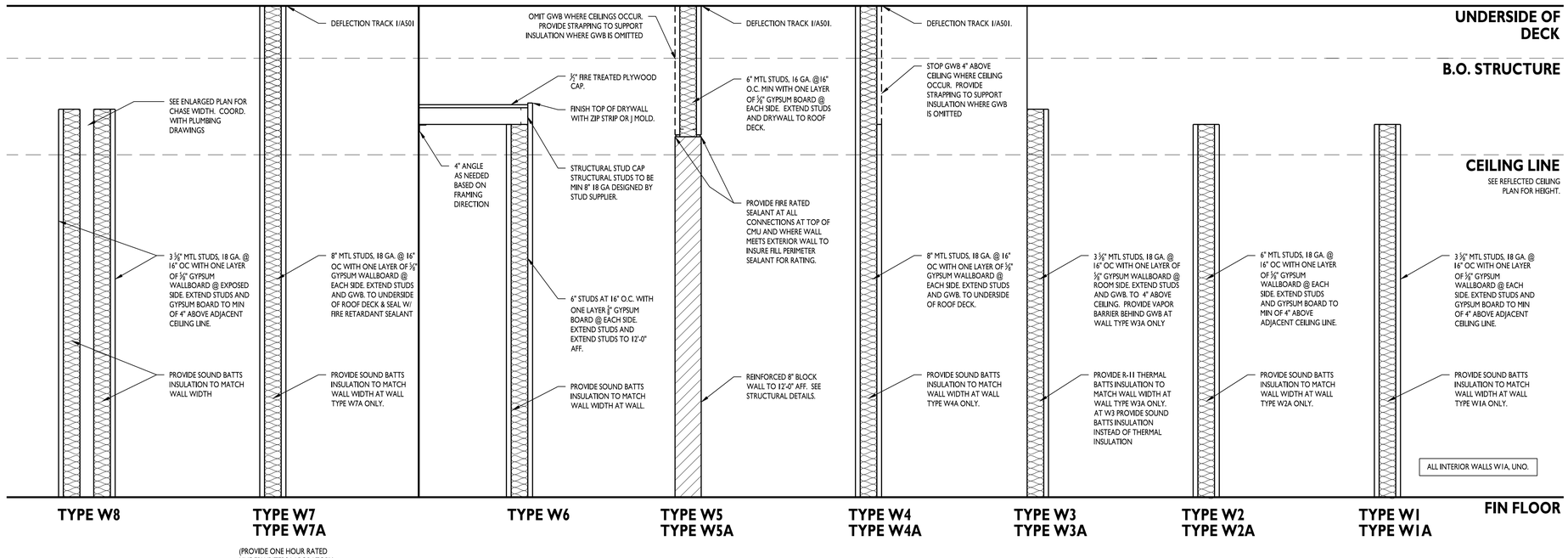
ABBREVIATIONS

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

SYMBOLS

(NOT ALL MAY APPLY)

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



WALL TYPES

NOT TO SCALE

WALL TYPE GENERAL NOTES

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

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

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

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

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

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

G. DESIGN ALL PARTITIONS TO U240 AT 5 PSF.

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

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SCANNELL PROPERTIES

CERTIFICATION

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

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING A LOT 1

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

ISSUE DATES

	PERMIT SET	02.18.22
1	PERMIT REVIEW COMMENTS	05.16.22

210300

SCOPE NOTES

A001

TYPICAL ADA INFO

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

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

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

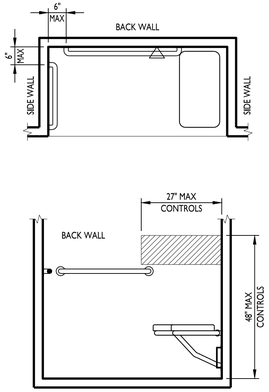
GRAB BARS: GRAB BARS SHALL BE 33" TO 36" AFF THE GRAB BAR BEHIND THE WATER CLOSET SHALL BE 36" LONG AND NO MORE THAN 6" OF OF THE SIDE WALL. THE SIDE WALL GRAB BAR SHALL BE 42" LONG AND 12" OFF THE BACK WALL.

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

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

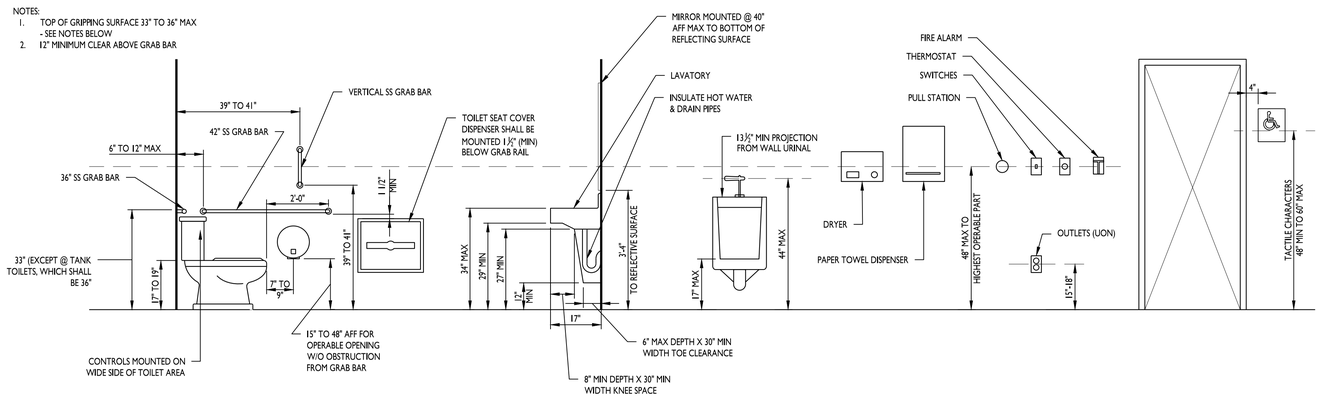
SOAP DISPENSER: SOAP DISPENSERS SHALL BE MOUNTED NO HIGHER THAN 48" AFF.

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



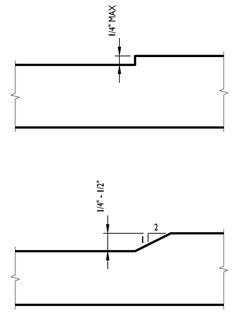
SHOWER STALL DIMENSIONS 8

1/2" = 1'-0"



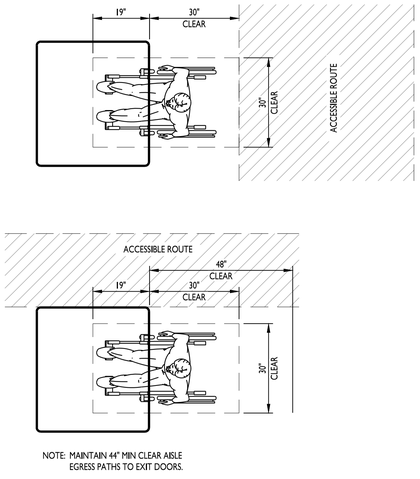
TYPICAL MOUNTING HEIGHTS 1

1/2" = 1'-0"



FLOOR TRANSITIONS 9

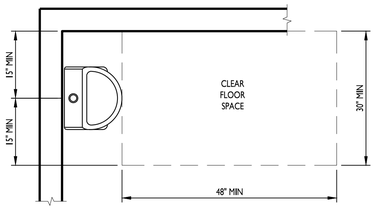
6" = 1'-0"



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

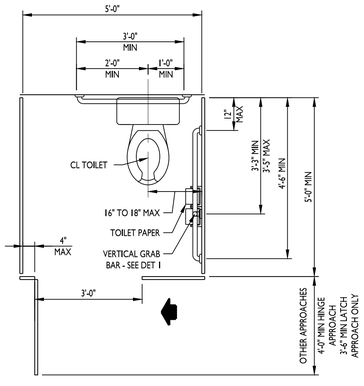
ACCESSIBLE ROUTES 6

1/2" = 1'-0"



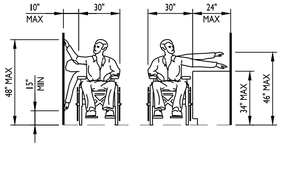
URINAL CLEAR SPACE 4

3/4" = 1'-0"



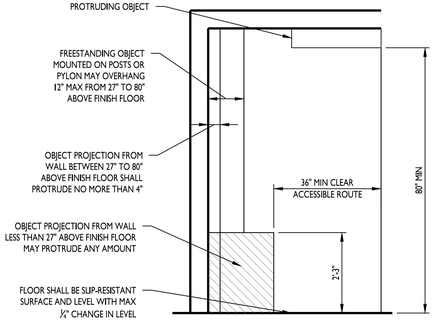
TOILET STALL DIMENSIONS 2

1/2" = 1'-0"



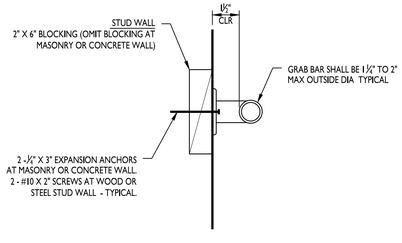
REACH RANGES 10

1/4" = 1'-0"



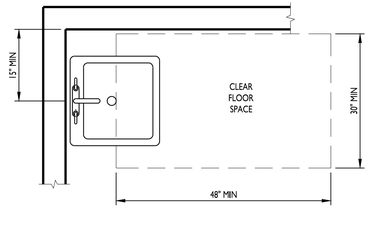
VERTICAL CLEARANCES 7

1/2" = 1'-0"



GRAB BAR DIMENSIONS 5

3" = 1'-0"



SINK CLEAR SPACE 3

3/4" = 1'-0"

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CERTIFICATION

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SHAWN M. CURRAN
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PROJECT INFORMATION

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

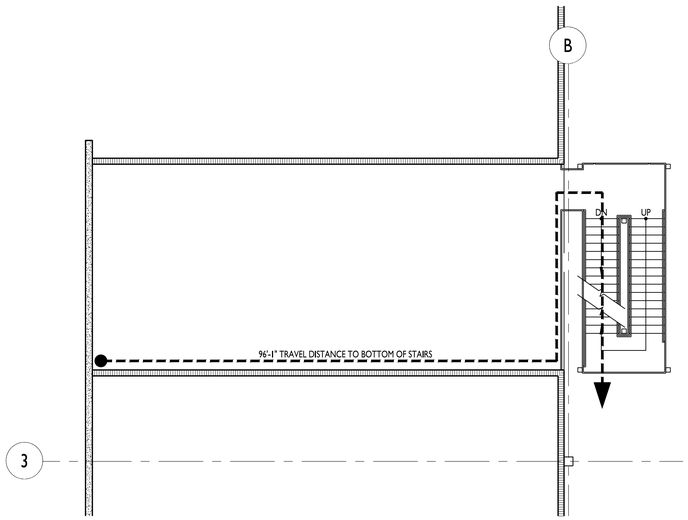
ISSUE DATES

PERMIT SET	02.18.22

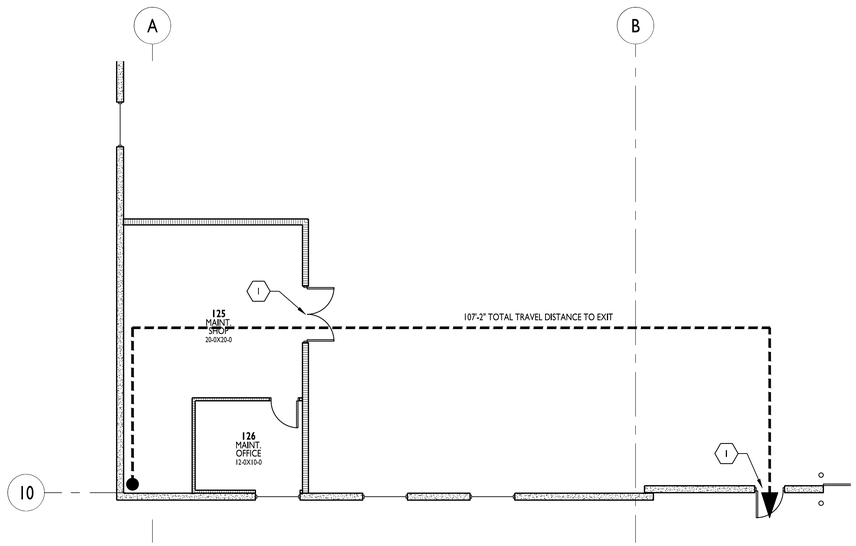
210300

TYPICAL ACCESSIBILITY DETAILS

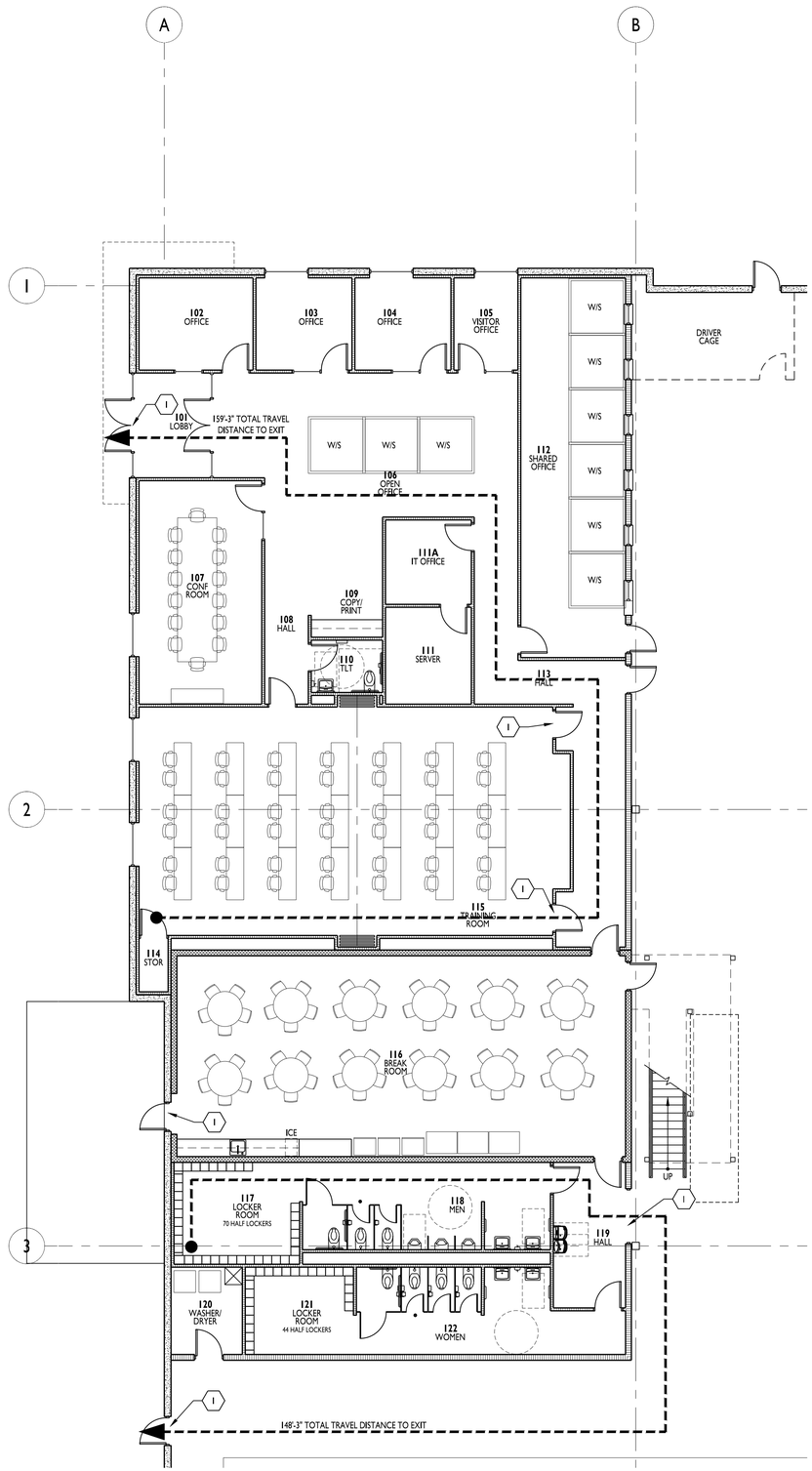
A002



MEZZANINE LIFE SAFETY PLAN 2
1/8" = 1'-0"



ENLARGED LIFE SAFETY PLAN 2
1/8" = 1'-0"



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

KEYED NOTES

1. EXIT, EXIT SIGN, AND EMERGENCY LIGHTING ABOVE DOOR INTERIOR WITH BATTERY BACKUP. EXTERIOR EGRESS LIGHTING ABOVE DOOR TIED TO BATTERY BACK UP.
2. FINAL QUANTITY AND LOCATIONS TO BE DETERMINED WITH FINAL RACKING PLAN AND FIRE DEPARTMENT REVIEW.

CODE ANALYSIS

APPLICABLE CODES

BUILDING CODE
2018 INTERNATIONAL BUILDING CODE

PLUMBING CODE
2017 INTERNATIONAL PLUMBING CODE

ELECTRICAL CODE
2017 NATIONAL ELECTRICAL CODE

FIRE CODE
2018 INTERNATIONAL FIRE CODE

MECHANICAL CODE
2018 INTERNATIONAL MECHANICAL CODE

FUEL GAS CODE
2018 FUEL GAS CODE

HANDICAPPED ACCESSIBILITY CODE
2009 ANSI A117.1
ADA ACCESSIBILITY GUIDELINES

OCCUPANCY (OVERALL BUILDING)

CLASSIFICATION (302.1):	S-1

OCCUPANCY (TENANT SPACE)

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

AUTOMATIC SPRINKLER SYSTEM

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

ALLOWABLE BUILDING HEIGHT

TABULAR HEIGHT (503):	2 STORY

ALLOWABLE BUILDING AREA

TABULAR AREA (503):	17,500 SF

BUILDING AREA INCREASE

INCREASE FOR SPRINKLERED BUILDING (506.3):	300%
UNLIMITED AREA (507):	UNLIMITED
FRONTAGE INCREASE (506.2):	N/A
If = (F/P - .25) x W / 30	
TOTAL ALLOWABLE AREA WITH INCREASES:	UNLIMITED
As = At + (At x If) + (At x Is)	
As = FILL IN	

ACTUAL BUILDING HEIGHT AND AREA

BUILDING AREA:	433,301 SF
BUILDING HEIGHT (FEET / # FLOORS):	45'-6" / 1 FLR

TABULAR OCCUPANT LOAD (1004.1.2)

OCCUPANT LOAD FACTOR:	1 / 500

ACTUAL OCCUPANT LOAD (1004.1.2)

SQUARE FOOTAGE / OCCUPANT LOAD FACTOR:	433301 / 500
TOTAL OCCUPANTS:	867

FIRE RESISTIVE REQUIREMENTS (601 AND 602)

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

FIRE RESISTANCE RATED CONSTRUCTION (704, 601, 602)

RATED EXTERIOR WALLS:	N/A
FIRE SEPARATION DISTANCE	60' +
UNPROTECTED OPENING AREA:	N/A

INTERIOR WALL AND CEILING FINISH REQUIREMENTS (803)

SEE FINISH SCHEDULE FOR MATERIALS
ALL MATERIALS ARE CLASS A RATED

FIRE PROTECTION SYSTEMS

STANDPIPE SYSTEM (905):	YES
PORTABLE FIRE EXTINGUISHERS (906.1):	BY TENANT
FIRE ALARM AND DETECTION SYSTEMS (907):	YES
SMOKE CONTROL SYSTEMS (909):	N/A
SMOKE AND HEAT VENTS (910):	N/A

EGRESS

MINIMUM WIDTH FACTOR (1005.1):	0.15
REQUIRED MINIMUM WIDTH FROM SPACE (1005.1):	130.05"
MINIMUM NUMBER OF EXITS (1015):	3
ACTUAL NUMBER OF EXITS:	20
ACTUAL WIDTH OF EXITS:	792"
ALLOWABLE TRAVEL DISTANCE (1016.2):	400'
CORRIDOR CONSTRUCTION (1018.1):	NR
MINIMUM CORRIDOR WIDTH (1018.2):	44"
MAXIMUM DEAD END CORRIDOR (1018.4):	20'

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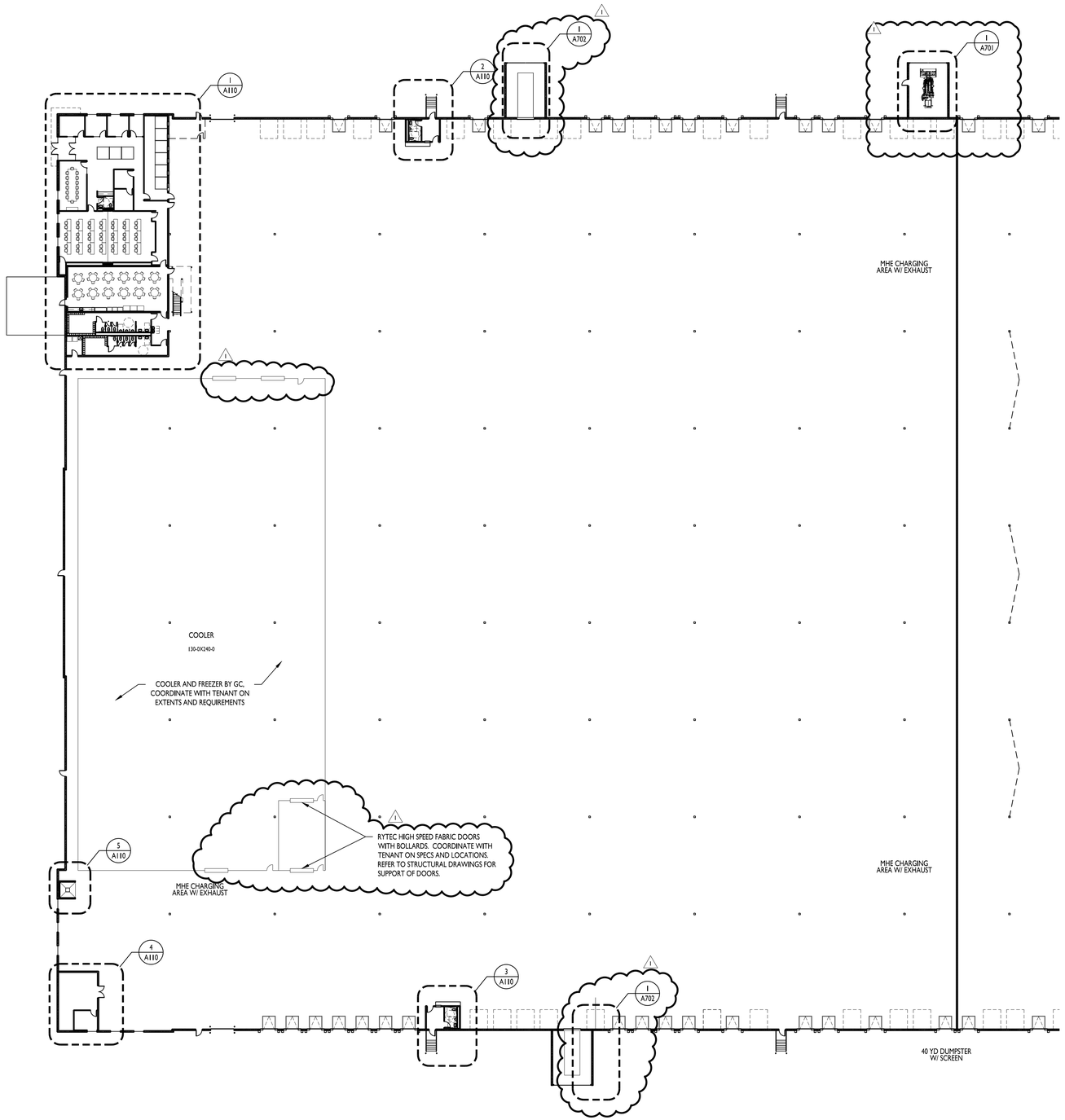
ISSUE DATES

PERMIT SET	02.18.22

210300

ENLARGED LIFE SAFETY PLANS

A108



1st FLOOR PLAN 1 — 1" = 30'

N

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ISSUE DATES

	PERMIT SET	02.18.22
1	REVISIONS	06.14.22

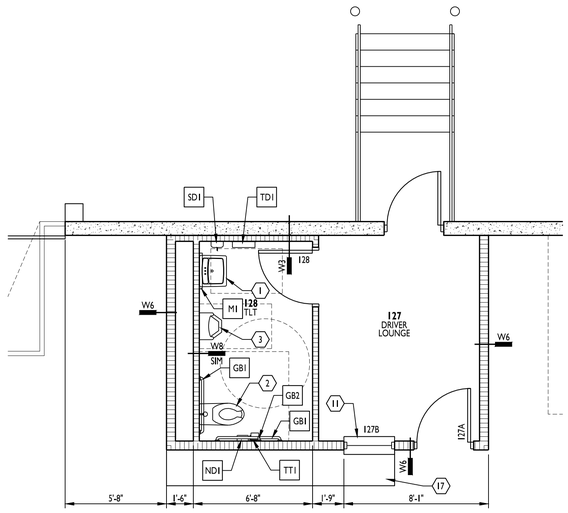
210300

1st FLOOR PLAN
BUILD OUT

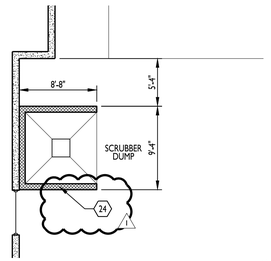
A109

TOILET ACCESSORY SCHEDULE

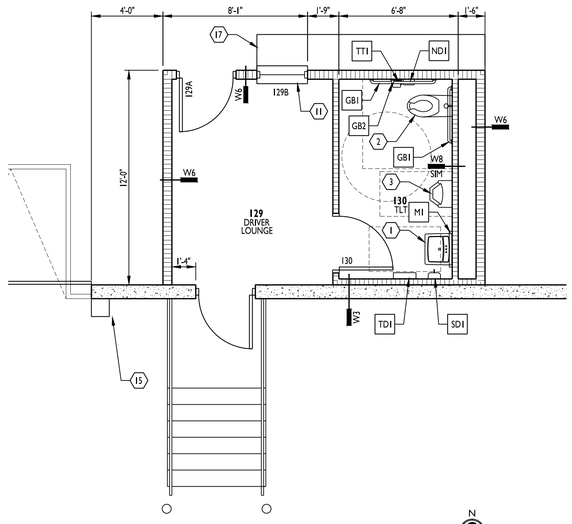
MARK	SYMBOL	MFR #	DESCRIPTION
TTI		BOBRICK B-2888	MULTI-ROLL TOILET TISSUE DISPENSER
GB1		BOBRICK B-5806 X 36 B-5806 X 42	36" AND 42" GRAB BARS
GB2		BOBRICK B-5806 X 18	18" VERTICAL GRAB BAR
MI		BOBRICK B-165	MIRROR 2'-0" X 4'-0"
TDI		BOBRICK B-3944	TOWEL DISPENSER / WASTE RECEPTACLE
SDI		BOBRICK B-2112	SOAP DISPENSER
NDI		BOBRICK B-353 B-270	B-353: SANITARY NAPKIN DISPOSAL UNIT AT GWB LOCATIONS. B-270: SURFACE, MOUNT SANITARY NAPKIN DISPOSAL UNIT AT PARTITIONS
TPI		GENERAL PARTITION	TOILET PARTITION AND/OR URINAL SCREEN POWDER COATED URINAL SCREEN BOTTOM 12" FROM FLOOR AND TOP 60" MAX FROM FLOOR



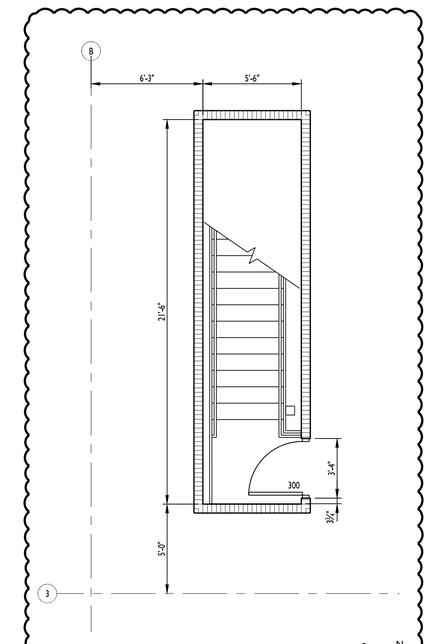
OUTBOUND DRIVER LOUNGE 2 — 1/4" = 1'-0"



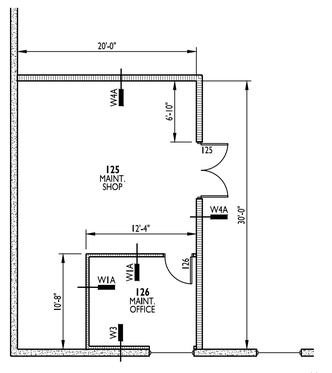
ENLARGED FLOOR PLAN 5 — 1/8" = 1'-0"



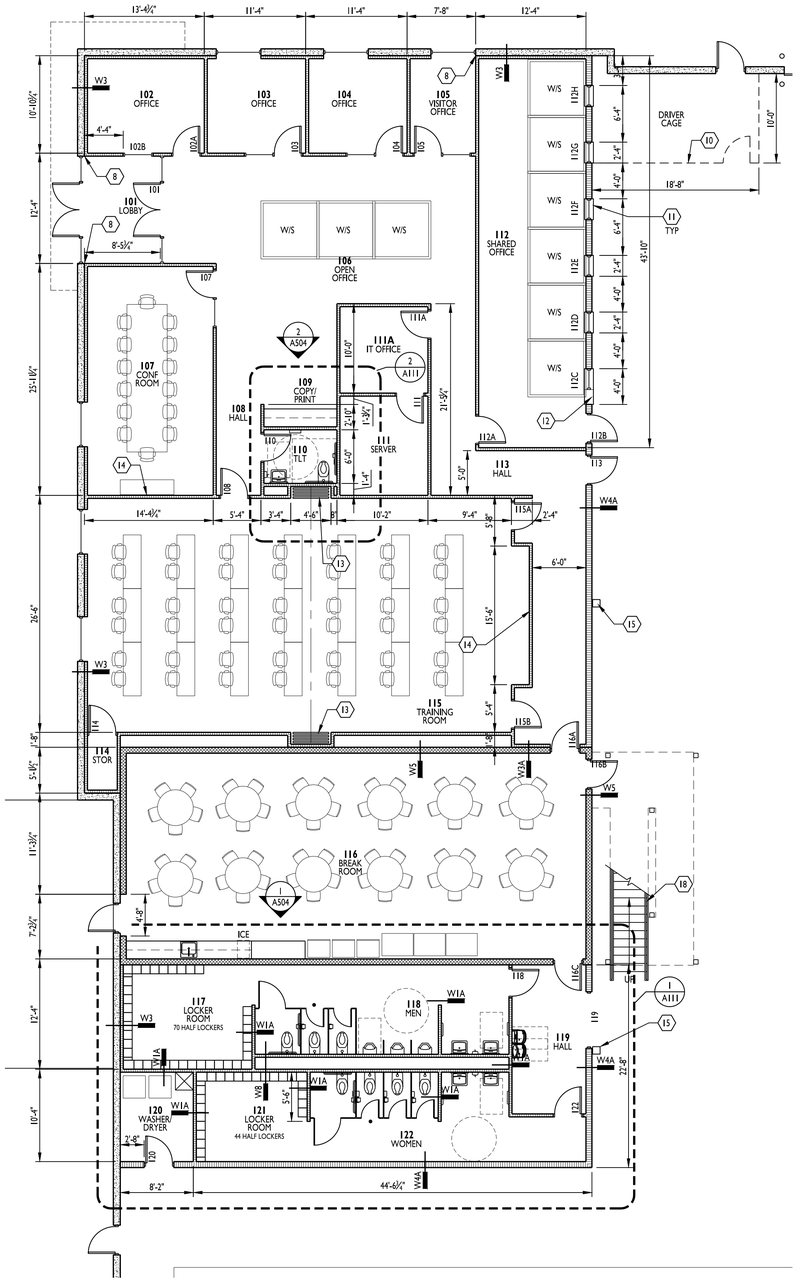
INBOUND DRIVER LOUNGE 3 — 1/4" = 1'-0"



PENTHOUSE FLOOR PLAN 6 — 1/4" = 1'-0"



ENLARGED FLOOR PLAN 4 — 1/8" = 1'-0"



1st FLOOR PLAN 1 — 1/8" = 1'-0"

GENERAL NOTES

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

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

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

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

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

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

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

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

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

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

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

KEYED NOTES

1. ADA COMPLIANT WALL MOUNTED LAVATORY. PROVIDE SCALD GUARDS ON SUPPLY / WASTE LINE. REFER TO PLUMBING DWGS. SEE TYPICAL ACCESSIBILITY DETAILS FOR ACCESSIBLE MOUNTING INFORMATION.
2. ADA COMPLIANT WALL MOUNT FLUSH VALVE TOILET. REFER TO PLUMBING DWGS. SEE TYPICAL ACCESSIBILITY DETAILS FOR ACCESSIBLE MOUNTING INFORMATION.
3. ADA COMPLIANT WALL MOUNTED URINAL W/ FLUSH VALVE CONTROL. CENTER IN WIDTH OF STALL. REFER TO PLUMBING DRAWINGS. SEE TYPICAL ACCESSIBILITY DETAILS FOR ACCESSIBLE MOUNTING INFORMATION.
4. STANDARD HEIGHT WALL MOUNT FLUSH VALVE TOILET. CENTER IN WIDTH OF STALL.
5. STANDARD HEIGHT URINAL. CENTER IN WIDTH OF PARTITIONS (OR WALL).
6. WALL MOUNTED LAVATORY. MATCH HEIGHT OF ADA LAVATORIES
7. ADA COMPLIANT HI-LO WATER FOUNTAIN.
8. ALIGN FINISH FACE OF WALL, BOTH SIDES.
9. WASHER & DRYER.
10. 8'-0" TALL GALVANIZE D FENCE. PROVIDE GATE PER DETAIL 4/A504.
11. PLASTIC LAMINATE 12" WIDE COUNTER. CENTER ON WIDTH OF WALL.
12. PASS THRU CABINET W/ DOORS ON BOTH SIDES SEE 6/A504. CENTER ON WIDTH OF WALL
13. MODERN FOLD PAIRED PANEL PARTITION W/ VINYL FACE, MIN 51 STC RATING. COORDINATE ALCOVE DIMENSIONS W/ SUPPLIER.
14. PROVIDE FR BLOCKING FOR TENANT PROVIDED TV.
15. STRUCTURAL STEEL COLUMN.
16. HALF HEIGHT LOCKERS 12" x 12" w/ 4" CURB & SLOPED TOP. PROVIDE 2 ADA COMPLIANT LOCKERS IN EACH ROOM.
17. WALL MOUNT SHELF. REFER TO 5/A504.
18. STEEL STAIRS, PAINT SAFETY YELLOW. REFER TO 1/A505.
19. 2' x 2' MOP SINK w/ WALL MOUNT FAUCET.
20. PRECAST PLANK ON CMU WALL WITH TOPPING SLAB. TOP OF SLAB AT 11'-8" AFF. REFER TO STRUCTURAL DRAWINGS
21. BAR JOIST ROOF FRAMING ABOVE. COORDINATE WITH STRUCTURAL DRAWINGS
22. ALIGN FINISH FACE OF GYP BOARD WITH FACE OF CMU WALL.
23. 1½" DIA 42" TALL STEEL GUARDRAIL WITH VERTICAL PICKETS AT 4" OC MAX, PAINTED SAFETY YELLOW. ANCHOR INTO PRECAST PLANK. REFER TO 2/A505
24. 4' TALL CMU WALL WITH BULLNOSE TOP AND OUTER EDGES. PAINT WITH EPOXY PAINT.
25. FLOOR SLAB TO SLOPE TO CATCH BASIN. REFER TO PLUMBING DRAWINGS FOR WATER SUPPLY AND DRAIN
26. PROVIDE INSULATED STEEL DOOR AT PENTHOUSE, FACING SOUTH. DOOR #200 ON SCHEDULE.

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SCANNELL PROPERTIES

CERTIFICATION

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SHAWN M. CURRAN
NUMBER A-8207
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PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING A LOT 1

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

ISSUE DATES

	PERMIT SET	02.18.22
1	REVISIONS	06.14.22

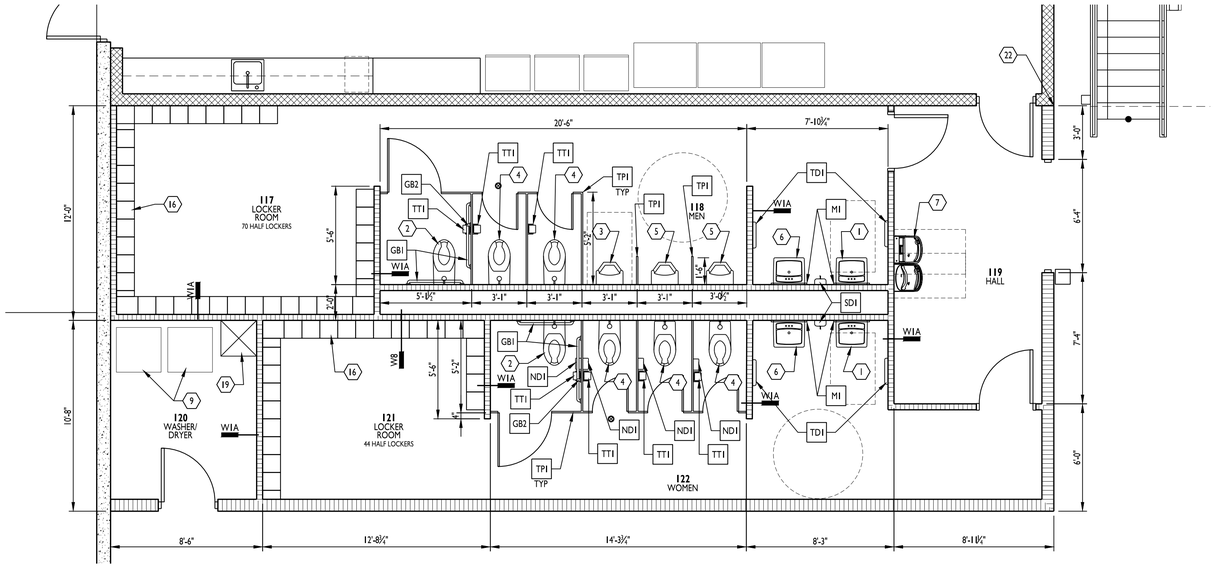
210300

ENLARGED FLOOR PLANS

A110

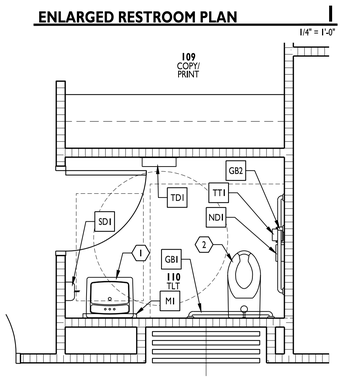
TOILET ACCESSORY SCHEDULE

MARK	SYMBOL	MFR #	DESCRIPTION
TTI		BOBRICK B-2888	MULTI-ROLL TOILET TISSUE DISPENSER
GBI		BOBRICK B-5806 X 36 B-5806 X 42	36" AND 42" GRAB BARS
GB2		BOBRICK B-5806 X 18	18" VERTICAL GRAB BAR
MI		BOBRICK B-165	MIRROR 2'-0" X 4'-0"
TDI		BOBRICK B-3944	TOWEL DISPENSER / WASTE RECEPTACLE
SDI		BOBRICK B-2112	SOAP DISPENSER
NDI		BOBRICK B-353 B-270	B-353: SANITARY NAPKIN DISPOSAL UNIT AT GWB LOCATIONS. B-270: SURFACE, MOUNT SANITARY NAPKIN DISPOSAL UNIT AT PARTITIONS
TPI		GENERAL PARTITION	TOILET PARTITION AND/OR URINAL SCREEN POWDER COATED URINAL SCREEN BOTTOM 12" FROM FLOOR AND TOP 60" MAX FROM FLOOR



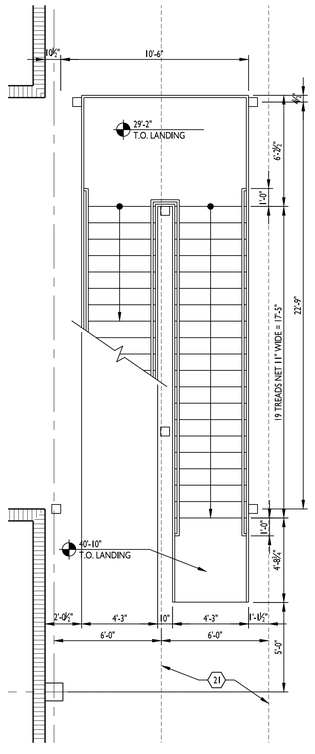
ENLARGED RESTROOM PLAN 1

1/4" = 1'-0"



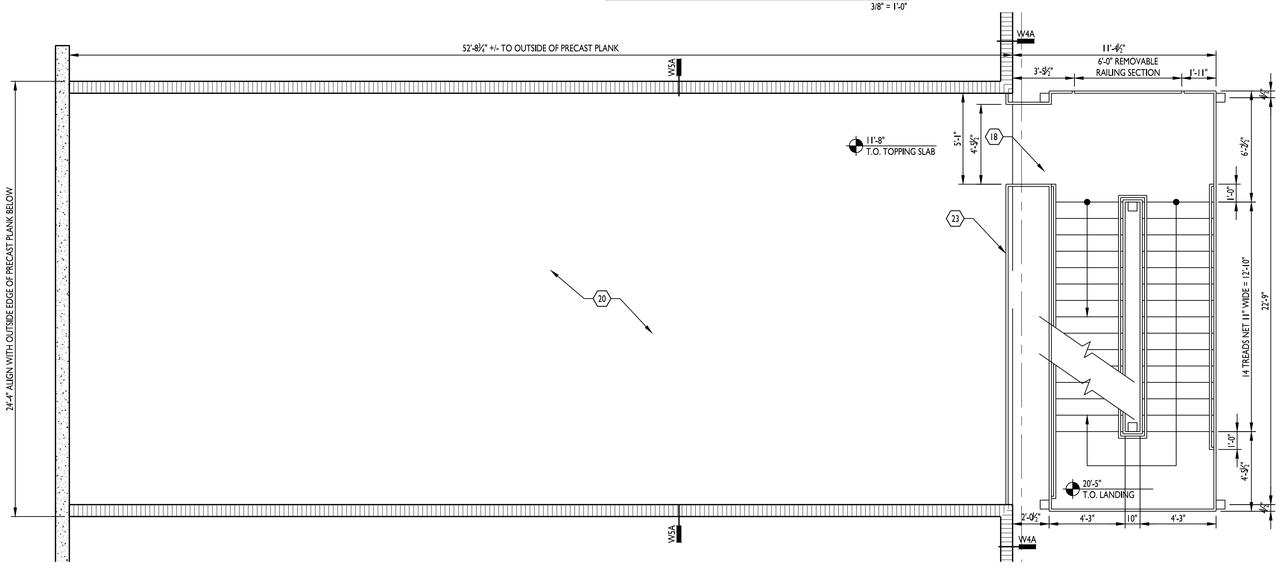
ENLARGED RESTROOM PLAN 2

3/8" = 1'-0"



UPPER STAIR PLAN 4

1/4" = 1'-0"



MEZZANINE PLAN 3

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

ISSUE DATES

PERMIT SET	02.18.22

210300

ENLARGED FLOOR PLANS

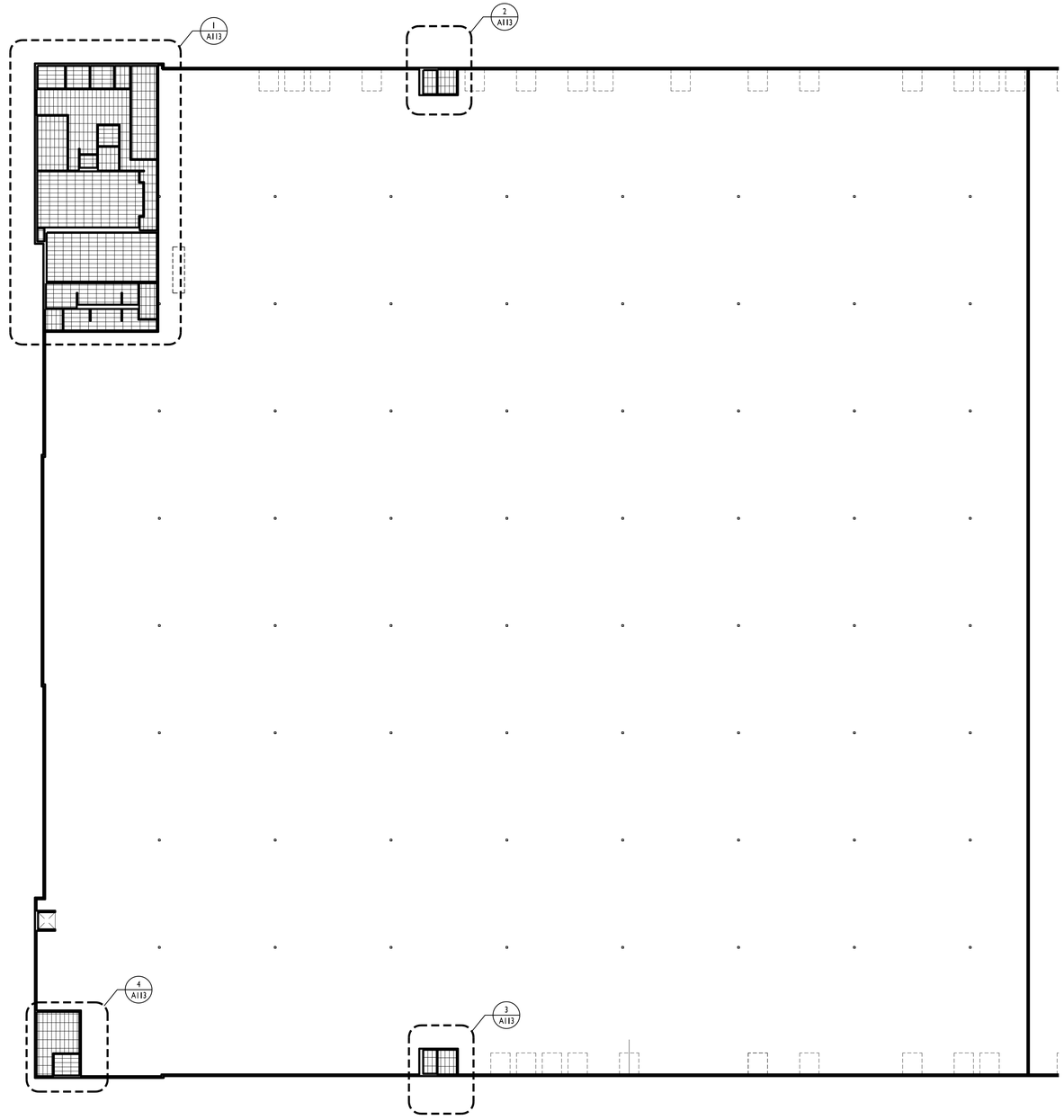
A111

CEILING LEGEND

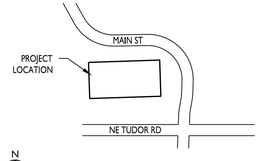
(NOT ALL MAY APPLY)

ACOUSTICAL TILE CEILING / GRID. REFER TO FINISH SCHEDULE FOR TYPE AND HEIGHT.

GYPSUM BOARD BULKHEAD OR CEILING. HEIGHT AS NOTED ON SCHEDULE OR KEYNOTES.



REFLECTED CEILING PLAN 1" = 30'



KEY PLAN

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OVERALL REFLECTED CEILING PLAN

A112

CEILING LEGEND

(NOT ALL MAY APPLY)

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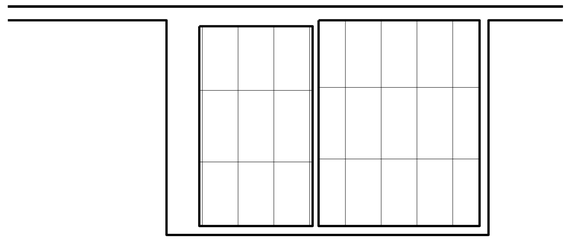
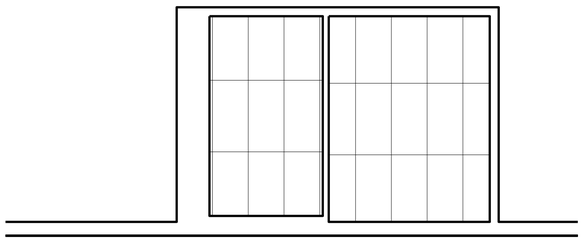
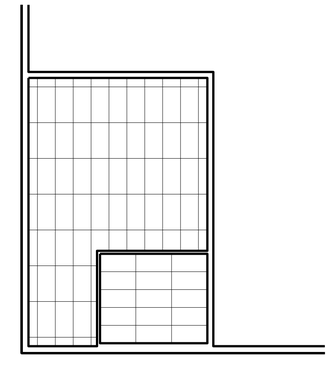
GYPSUM BOARD BULKHEAD OR CEILING. HEIGHT AS NOTED ON SCHEDULE OR KEYNOTES.



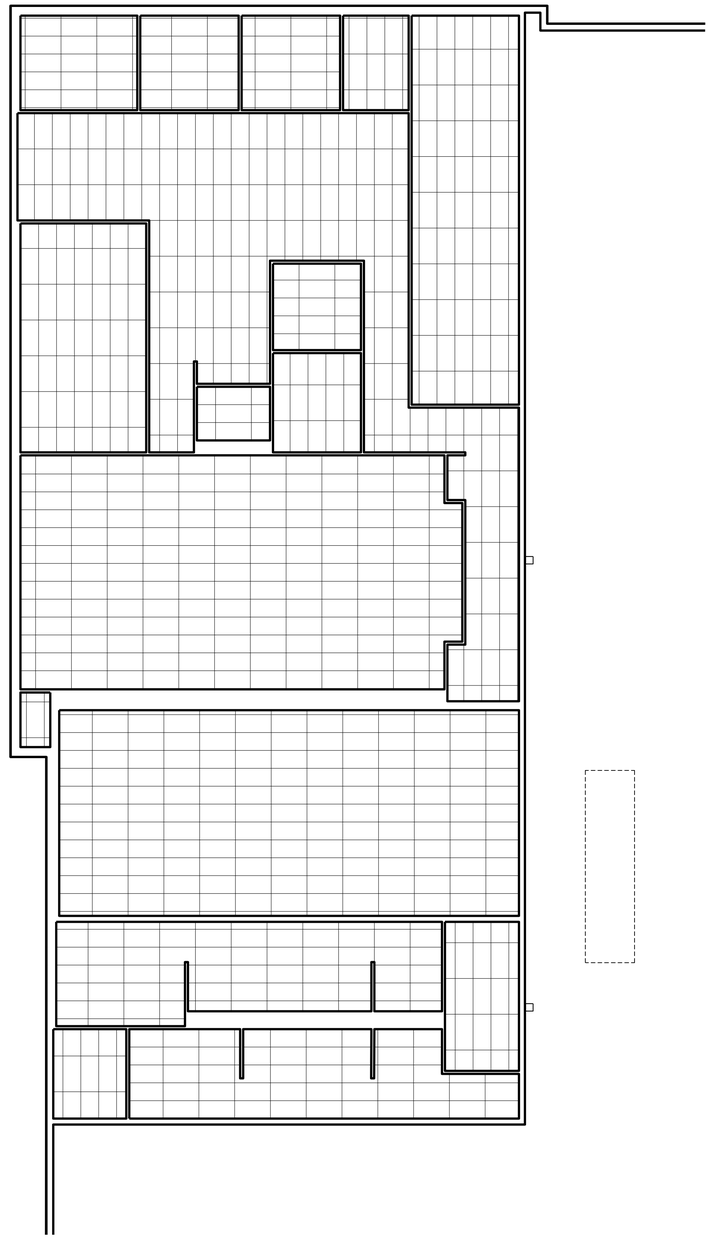
ENLARGED REFLECTED CEILING PLAN 2
1/4" = 1'-0"



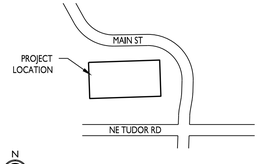
ENLARGED REFLECTED CEILING PLAN 3
1/4" = 1'-0"



ENLARGED REFLECTED CEILING PLAN 4
1/8" = 1'-0"



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



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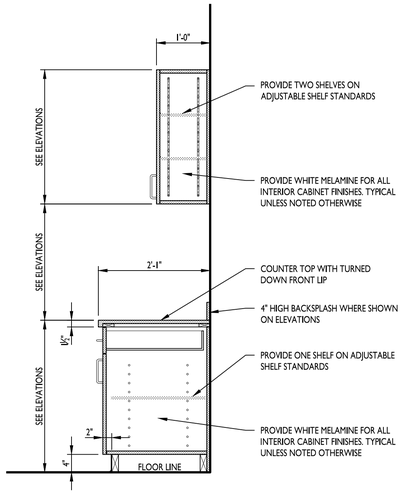
PERMIT SET	02.18.22

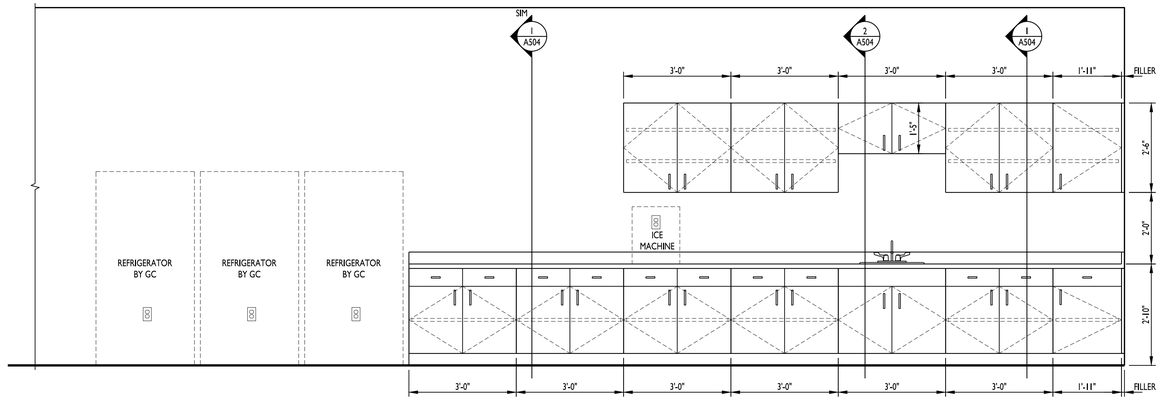
210300

ENLARGED REFLECTED CEILING PLANS

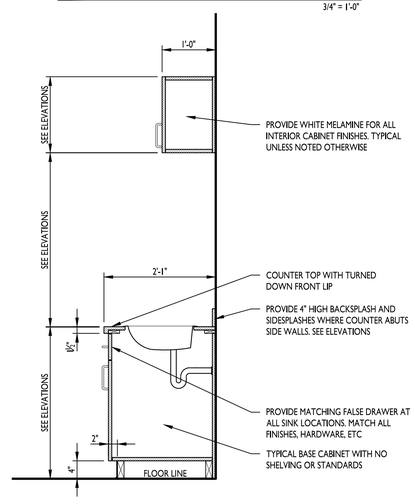
A113



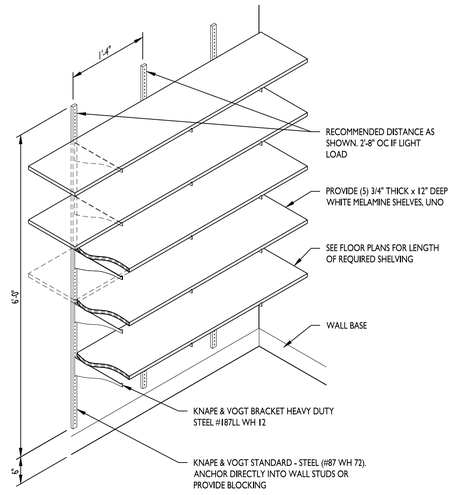
CASEWORK SECTION 1
3/4" = 1'-0"



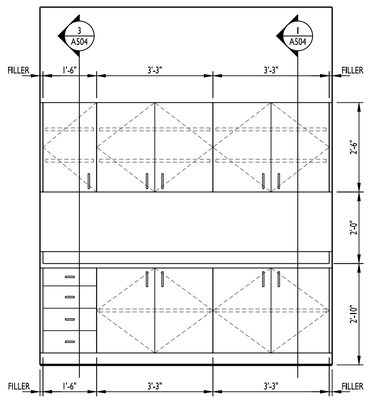
CASEWORK ELEVATION 1
1/2" = 1'-0"



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



ADJUSTABLE SHELVING 5
3/4" = 1'-0"



CASEWORK ELEVATION 2
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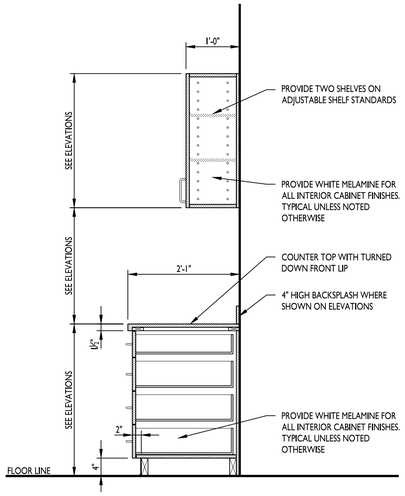
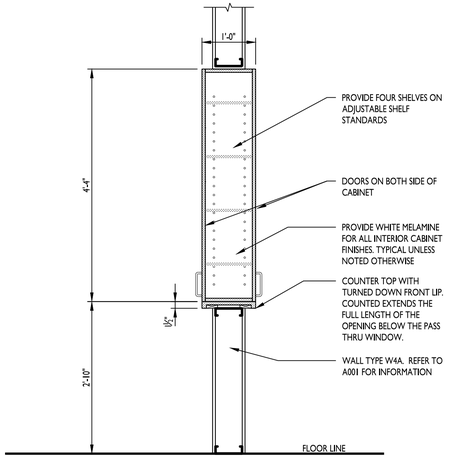
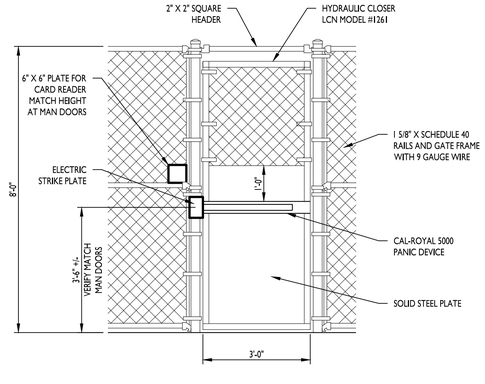


CASEWORK SECTION 3
3/4" = 1'-0"



PASS-THRU CABINET SECTION 6
3/4"" = 1'-0"



GATE DETAIL 4
1/2" = 1'-0"

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

CERTIFICATION

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

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING A LOT 1

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

ISSUE DATES

PERMIT SET	02.18.22

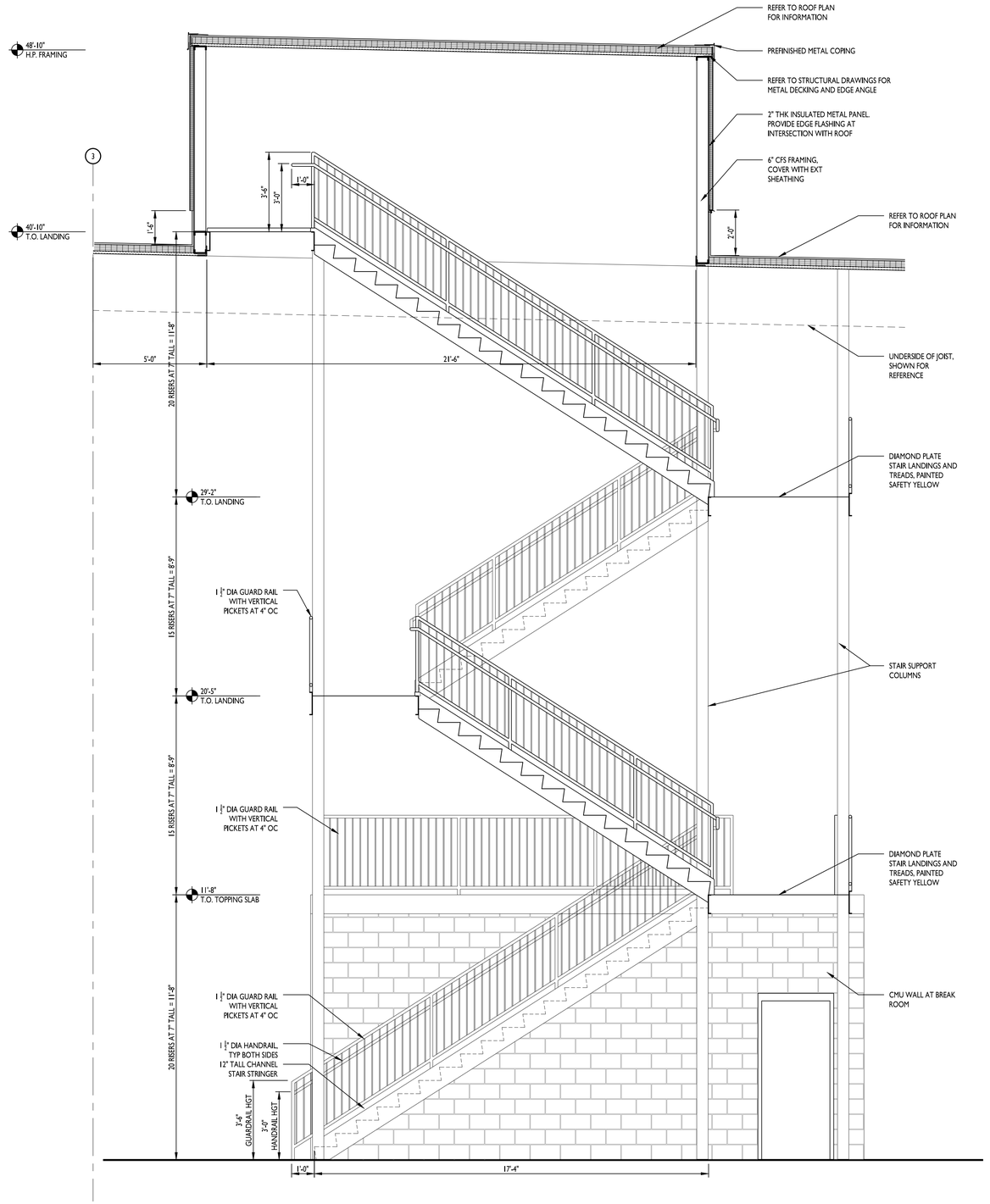
210300

SECTIONS AND DETAILS

A504

SECTION 4

3/8" = 1'-0"



SECTION 4

3/8" = 1'-0"

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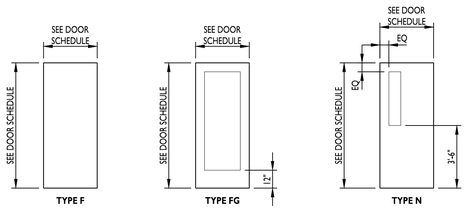
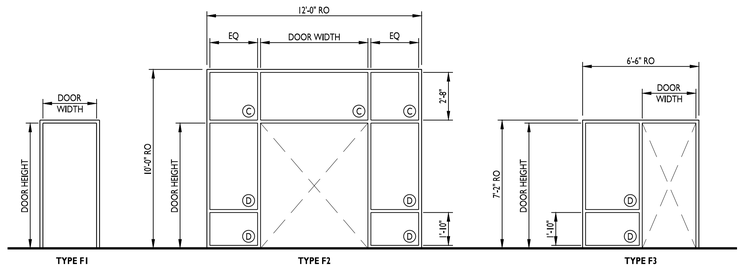
SECTIONS AND DETAILS

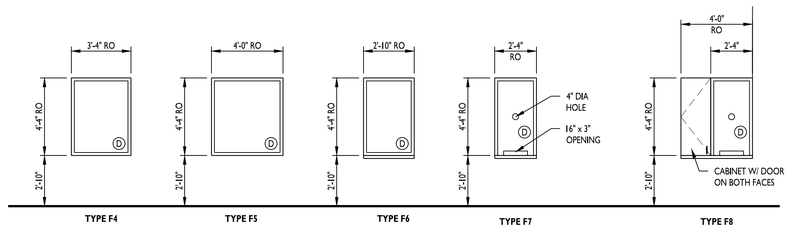
A505



DOOR TYPES

NOT TO SCALE





FRAME TYPES

NOT TO SCALE

DOOR SCHEDULE

MARK	DOOR	SIZE	MATERIAL	GLAZING	FINISH	RATING	FRAME	MATERIAL	FINISH	RATING	HARDWARE	REMARKS
101	FG	(2) 3-0 x 7-0	SCWD	D	PRE-FIN	-	F2	KD	PAINT	-	7	
102A	F	3-0 x 7-0	SCWD	--	PRE-FIN	--	F1	KD	PAINT	-	4	
102B	-	-	-	-	-	-	F4	KD	PAINT	-	-	
103	F	3-0 x 7-0	SCWD	--	PRE-FIN	--	F3	KD	PAINT	-	4	
104	F	3-0 x 7-0	SCWD	--	PRE-FIN	--	F3	KD	PAINT	-	4	
105	F	3-0 x 7-0	SCWD	--	PRE-FIN	--	F3 (OH)	KD	PAINT	-	4	
107	F	3-0 x 7-0	SCWD	--	PRE-FIN	--	F3	KD	PAINT	-	5	
108	N	3-0 x 7-0	SCWD	D	PRE-FIN	--	F1	KD	PAINT	-	8	
110	F	3-0 x 7-0	SCWD	-	PRE-FIN	-	F1	KD	PAINT	-	6	
111	F	3-0 x 7-0	SCWD	-	PRE-FIN	-	F1	KD	PAINT	-	9	
111A	F	3-0 x 7-0	SCWD	-	PRE-FIN	-	F1	KD	PAINT	-	4	
112A	F	3-0 x 7-0	SCWD	-	PRE-FIN	-	F1	KD	PAINT	-	8	
112B	N	3-0 x 7-0	HM	D	PAINT	-	F1	KD	PAINT	-	9	
112C	-	-	-	-	-	-	F8	KD	PAINT	-	-	
112D	-	-	-	-	-	-	F7	KD	PAINT	-	-	
112E	-	-	-	-	-	-	F7	KD	PAINT	-	-	
112F	-	-	-	-	-	-	F7	KD	PAINT	-	-	
112G	-	-	-	-	-	-	F7	KD	PAINT	-	-	
112H	-	-	-	-	-	-	F7	KD	PAINT	-	-	
113	N	3-0 x 7-0	HM	D	PAINT	-	F1	KD	PAINT	-	9	
114	F	3-0 x 7-0	SCWD	-	PRE-FIN	-	F1	KD	PAINT	-	4	
115A	N	3-0 x 7-0	SCWD	D	PRE-FIN	--	F1	KD	PAINT	-	8	
115B	N	3-0 x 7-0	SCWD	D	PRE-FIN	--	F1	KD	PAINT	-	8	
116A	N	3-0 x 7-0	SCWD	D	PRE-FIN	-	F1 W/ 4" HEAD	HM	PAINT	-	9	
116B	N	3-0 x 7-0	HM	D	PAINT	-	F1 W/ 4" HEAD	HM	PAINT	-	10	
116C	N	3-0 x 7-0	HM	D	PAINT	-	F1 W/ 4" HEAD	HM	PAINT	-	10	
118	F	3-0 x 7-0	HM	-	PAINT	-	F1	KD	PAINT	-	8	
119	-	-	-	-	-	-	F1	KD	PAINT	-	--	
120	F	3-0 x 7-0	HM	--	PAINT	-	F1	KD	PAINT	-	8	
122	F	3-0 x 7-0	HM	--	PAINT	-	F1	KD	PAINT	-	10	
125	F	(2)3-0 x 7-0	HM	--	PAINT	-	F1	KD	PAINT	-	11	
126	F	3-0 x 7-0	HM	--	PAINT	-	F1	KD	PAINT	-	4	
127A	F	3-0 x 7-0	HM	--	PAINT	-	F1	KD	PAINT	-	12	
127B	-	-	-	-	-	-	F6	KD	PAINT	-	--	
128	F	3-0 x 7-0	HM	--	PAINT	-	F1	KD	PAINT	-	6	
129A	F	3-0 x 7-0	HM	--	PAINT	-	F1	KD	PAINT	-	12	
129B	-	-	-	-	-	-	F6	KD	PAINT	-	--	
130	F	3-0 x 7-0	HM	--	PAINT	-	F1	KD	PAINT	-	6	
200	F	3-0 x 7-0	INSUL STL	--	PAINT	--	F1	HM	PAINT	--	3	
201	F	3-0 x 7-0	INSUL STL	--	PAINT	--	F1	HM	PAINT	--	3	
1 300	F	3-0 x 7-0	INSUL STL	--	PAINT	--	F1	HM	PAINT	--	3	

GENERAL DOOR AND GLAZING NOTES

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

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

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

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

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

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

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

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

GLAZING TYPES

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

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

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

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

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

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

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

DOOR HARDWARE

HARDWARE SET 1
- 2 CONTINUOUS HINGES
- 2 PANIC DEVICES
- 1 PERIMETER SEAL
- 1 THRESHOLD
- 2 SWEEPS
- 2 HD CLOSERS
- 2 PULLS

FINISH: MATCH STOREFRONT

HARDWARE SET 2
- 3 BALL BEARING HINGES
- 1 PANIC DEVICE W/ LEVER
- 1 PERIMETER SEAL
- 1 THRESHOLD W/ DRAINAGE SUBSILL
- 1 SWEEP
- 1 HD CLOSER
- 1 DRIP TRIM

FINISH: US26D

HARDWARE SET 3
- 3 BALL BEARING HINGES
- 1 STOREROOM LOCKSET
- 1 PERIMETER SEAL
- 1 THRESHOLD W/ DRAINAGE SUBSILL
- 1 SWEEP
- 1 HD CLOSER
- 1 DRIP TRIM

FINISH: US26D

HARDWARE SET 4
- 3 HINGES
- 1 OFFICE LOCKSET
- 3 MUTES
- 1 DOOR STOP

FINISH: US26D

HARDWARE SET 5
- 3 HINGES
- 1 PASSAGE SET
- 3 MUTES
- 1 DOOR STOP

FINISH: US26D

HARDWARE SET 6
- 3 HINGES
- 1 PRIVACY LOCKSET
- 3 MUTES
- 1 CLOSER
- 1 DOOR STOP

FINISH: US26D

HARDWARE SET 7
- 6 HINGES
- 2 PUSH PULLS
- 2 MUTES
- 2 MAG LOCK (BY TENANT)
- 2 DOOR STOPS

FINISH: US26D

HARDWARE SET 8
- 3 HINGES
- 1 PASSAGE SET
- 3 MUTES
- 1 CLOSER
- 1 DOOR STOP

FINISH: US26D

HARDWARE SET 9
- 3 HINGES
- 1 STOREROOM LOCKSET
- 3 MUTES
- 1 CLOSER
- 1 ELECTRIC STRIKE (BY TENANT)
- 1 DOOR STOP

FINISH: US26D

HARDWARE SET 10
- 3 HINGES
- 1 PUSH PULL
- 3 MUTES
- 1 CLOSER
- 1 DOOR STOP

FINISH: US26D

HARDWARE SET 11
- 6 HINGES
- 1 OFFICE LOCKSET
- 2 MUTES
- 1 PAIR FLUSH BOLTS
- 1 DOOR STOP

FINISH: US26D

HARDWARE SET 12
- 3 HINGES
- 1 EXIT DEVICE
- 3 MUTES
- 1 CLOSER
- 1 ELECTRIC STRIKE (BY TENANT)
- 1 DOOR STOP

FINISH: US26D

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ISSUE DATES

PERMIT SET	02.18.22
1 REVISIONS	06.14.22

210300

INTERIOR DOOR SCHEDULE

A602

MATERIALS SCHEDULE

MARK	MATERIAL	MANUFACTURER	COLOR	PATTERN / TEXTURE	NUMBER	REMARKS
S-1	SEALED CONCRETE	ASHFORD	CLEAR	CURE-N-SEAL	--	
CPT-1	CARPET TILE	MOHAWK	TBD	UNCHARTED SOLVE II	BT416	
CPT-2	CARPET TILE	MOHAWK	TBD	STEP IN STYLE II	QL312	
T-1	WALL TILE	DALTILE	TBD	COLOR WHELL CLASSIC LINE 3X6 RUNNING BOND	TBD	PROVIDE SHLUTER STRIP AT TOP EDGE, AND SCHLUTER SANITARY COVE AT FLOOR/WALL INTERSECTION
T-2	FLOOR TILW	DALTILE	TBD	IRONCRAFT 12X24	TBD	
B-1	BASE	JOHNSONITE TARKETT	TBD	4" COVE	TBD	
P-1	PAINT	SHERWIN WILLIAMS	TBD	EGGSHELL	TBD	
P-2	PAINT	SHERWIN WILLIAMS	TBD	EGGSHELL	TBD	
P-3	PAINT	SHERWIN WILLIAMS	TBD	EGGSHELL	TBD	
P-4	PAINT	SHERWIN WILLIAMS	MATCH BASE COLOR	SEMI GLOSS	TBD	INTERIOR DOOR FRAMES AND HOLLOW METAL DOORS
FRP-1	FIBERGLASS REINFORCED PLASTIC	TBD	TBD	SMOOTH FINISH	TBD	
PL-1	PLASTIC LAMINATE	TBD	TBD	MATTE FINISH	TBD	
PL-2	PLASTIC LAMINATE	TBD	TBD	MATTE FINISH	TBD	
SS-1	SOLID SURFACE	TBD	TBD	TBD	TBD	GRADE C PRICE
ACT-1	ACOUSTICAL CEILING TILE	ARMSTRONG	WHITE	CORTEGA 2nd LOOK	2767	

ROOM FINISH SCHEDULE

ROOM #	ROOM NAME	FLOORING	BASE	NORTH WALL	EAST WALL	SOUTH WALL	WEST WALL	CABINETS / COUNTERTOPS	CEILING MAT / HEIGHT	REMARKS
101	LOBBY	CPT-2	B-1	P-1	P-1	P-1	P-1	--	ACT-1/9-8	
102	OFFICE	CPT-1	B-1	P-2	P-1	P-1	P-1	--	ACT-1/9-8	
103	OFFICE	CPT-1	B-1	P-2	P-1	P-1	P-1	--	ACT-1/9-8	
104	OFFICE	CPT-1	B-1	P-2	P-1	P-1	P-1	--	ACT-1/9-8	
105	VISITOR OFFICE	CPT-1	B-1	P-2	P-1	P-1	P-1	--	ACT-1/9-8	
106	OPEN OFFICE	CPT-1	B-1	P-1	P-1	P-1	P-1	--	ACT-1/9-8	
107	CONF ROOM	CPT-1	B-1	P-3	P-3	P-3	P-3	--	ACT-1/9-8	
108	HALL	CPT-1	B-1	P-1	P-1	P-1	P-1	--	ACT-1/9-8	
109	COPY / PRINT	CPT-1	B-1	P-1	P-1	P-1	P-1	PL-1/PL-2	ACT-1/9-8	
110	TLT	T-2	--	T-1/P-3	T-1/P-3	T-1/P-3	T-1/P-3	--	ACT-1/9-8	T-1 TO 5'-0" AFF AND P-3 TO CEILING
111	SERVER	SC-1	B-1	P-1	P-1	P-1	P-1	--	ACT-1/9-8	
112	SHARED OFFICE	CPT-1	B-1	P-1	P-2	P-1	P-1	--	ACT-1/9-8	
113	HALL	CPT-2	B-1	P-1	P-2	P-1	P-1	--	ACT-1/9-8	
114	STOR	CPT-1	B-1	P-1	P-1	P-1	P-1	--	ACT-1/9-8	
115	TRAINING ROOM	CPT-1	B-1	P-1	P-2	P-1	P-1	--	ACT-1/9-8	
116	BREAK ROOM	SC-1	--	P-1	P-1	P-1	P-1	PL-1/SS-1	ACT-1/9-8	
117	LOCKER ROOM	SC-1	B-1	P-2	P-1	P-1	P-1	--	ACT-1/9-8	
118	MEN	SC-1	B-1*	P-2	T-1/P-1	T-1/P-1	T-1/P-1	--	ACT-1/9-8	B-1 ON NON TILED WALLS ONLY, T-1 TO 5'-0" AFF AND P-1 TO CEILING
119	HALL	SC-1	B-1	P-1	P-1	P-1	P-1	--	ACT-1/9-8	
120	WASHER / DRYER	SC-1	B-1	FRP-1/P-1	FRP-1/P-1	FRP-1/P-1	FRP-1/P-1	--	ACT-1/9-8	FRP-1 TO 4'-0" AFF AND P-1 TO CEILING
121	LOCKER ROOM	SC-1	B-1	P-1	P-1	P-2	P-1	--	ACT-1/9-8	
122	WOMEN	SC-1	B-1*	T-1/P-1	T-1/P-1	P-2	T-1/P-1	--	ACT-1/9-8	B-1 ON NON TILED WALLS ONLY, T-1 TO 5'-0" AFF AND P-1 TO CEILING
125	MAINT SHOP	SC-1	B-1	P-1	P-1	P-1	P-1	--	ACT-1/9-8	
126	MAINT OFFICE	SC-1	B-1	P-1	P-1	P-1	P-1	--	ACT-1/9-8	
127	DRIVER LOUNGE	SC-1	B-1	P-1	P-1	P-1	P-1	PL-1	ACT-1/9-8	
128	TLT	SC-1	B-1	FRP-1/P-1	FRP-1/P-1	FRP-1/P-1	FRP-1/P-1	--	ACT-1/9-8	FRP-1 TO 4'-0" AFF AND P-1 TO CEILING
129	DRIVER LOUNGE	SC-1	B-1	FRP-1/P-1	FRP-1/P-1	FRP-1/P-1	FRP-1/P-1	--	ACT-1/9-8	
130	TLT	SC-1	B-1	FRP-1/P-1	FRP-1/P-1	FRP-1/P-1	FRP-1/P-1	--	ACT-1/9-8	FRP-1 TO 4'-0" AFF AND P-1 TO CEILING

GENERAL FINISH NOTES

A. PROCEEDING WITH THE INSTALLATION OF FINISHES WILL BE CONSTRUED THAT THE INSTALLER AND/OR FINISHER HAS INSPECTED AND ACCEPTED THE SUBSTRATE FOR RECEIVING THE WORK. NO CHANGE ORDER WILL BE ISSUED TO RECTIFY CONCEALED, UNKNOWN CONDITIONS OR UNSATISFACTORY SUBSTRATE ONCE THE FINISH WORK HAS PROCEEDED.

B. USE MANUFACTURER'S RECOMMENDED INSTALLATION METHODS AND MATERIALS FOR ALL FINISHES.

C. CONTRACTOR TO NOTIFY ARCHITECT IMMEDIATELY IF A SPECIFIED FINISH ITEM BECOMES UNAVAILABLE.

D. CONTRACTOR TO SUBMIT SHOP DRAWINGS, FLOORING TRANSITION/GRAPHIC LOCATIONS AND SUBMITTALS OF ALL INTERIOR ITEMS AND FINISH MATERIALS TO ARCHITECT REVIEW PRIOR TO PLACING ANY MATERIAL ORDERS. CONTRACTOR MUST ACCOUNT FOR SUBMITTAL REVIEW, ORDERING AND DELIVERY WHEN SCHEDULING PRODUCT INSTALLATION.

E. USE SUBFLOOR REDUCER STRIPS (UNDER FLOORING) TO LEVEL MATERIALS OF UNEQUAL HEIGHTS.

F. PROVIDE JOHNSONITE SLIM-LINE TRANSITION STRIPS WHERE FLOORING MATERIALS OF UNEQUAL THICKNESS MEET. TRANSITION STRIPS AT DOORS TO BE LOCATED UNDER THE CENTERLINE OF THE DOOR IN CLOSED POSITION. COLOR OF TRANSITION STRIPS TO BE SELECTED BY ARCHITECT.

G. ALL WALL TILE TO BE INSTALLED TO FLOOR WITH NO BASE UNLESS NOTED OTHERWISE.

H. ANY GRILLES, FIRE EXTINGUISHER CABINETS, ETC., TO BE PAINTED TO MATCH WALL COLOR ON WHICH THEY OCCUR.

I. PROVIDE OWNER WITH A MINIMUM OF ONE FULL BOX OR 2% OF EACH FINISH PRODUCT/MATERIAL SPECIFIED ON THE PROJECT.

J. ALL WOODWORK/MILLWORK SHALL CONFORM TO THE QUALITY STANDARDS OF ARCHITECTURAL WOODWORK INSTITUTE (AWI) PREMIUM GRADE. FABRICATOR SHALL BE FAMILIAR WITH AWI STANDARDS.

K. FABRICATE WOODWORK/MILLWORK ITEMS TO ACTUAL FIELD DIMENSIONS. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, SAMPLES, AND/OR MATERIAL LITERATURE FOR ALL ITEMS. SHOP DRAWINGS SHALL SHOW SUFFICIENT DETAIL TO DETERMINE COMPLIANCE WITH THE QUALITY STANDARDS AND DESIGN INTENT.

L. PROVIDE ALL NECESSARY FURRING AND GROUNDS FOR WOODWORK AND FINISH ITEMS. COORDINATE LOCATION OF BLOCKING WITHIN WALLS FOR ITEMS TO BE SECURED TO SURFACE. ALL FASTENERS SHALL BE CONCEALED.

M. FINISH ALL SIDES AND BACK OF MILLWORK/CASEWORK.

N. ALL COUNTERTOPS TO BE 1 $\frac{1}{4}$" THICK WITH A SQUARE EDGE, UNLESS OTHERWISE NOTED. PROVIDE COUNTER SUPPORTS AS REQUIRED.

O. PROVIDE GROMMETS IN COUNTERTOPS ABOVE RECEPTACLES. COLOR TO MATCH COUNTER SURFACE. COORDINATE WITH OWNER AND ARCHITECT ON FINAL LOCATION AND SIZE OF GROMMETS BEFORE INSTALLATION.

P. REFER TO FINISH SCHEDULE, INTERIOR ELEVATIONS AND SPECIFICATIONS FOR ALL MATERIAL INFORMATION AND LOCATIONS.

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

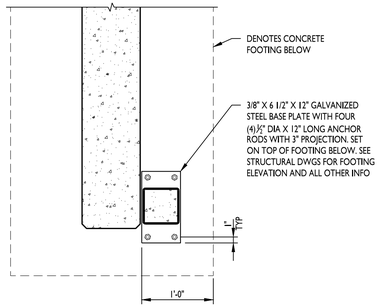
ISSUE DATES

PERMIT SET	02.18.22

210300

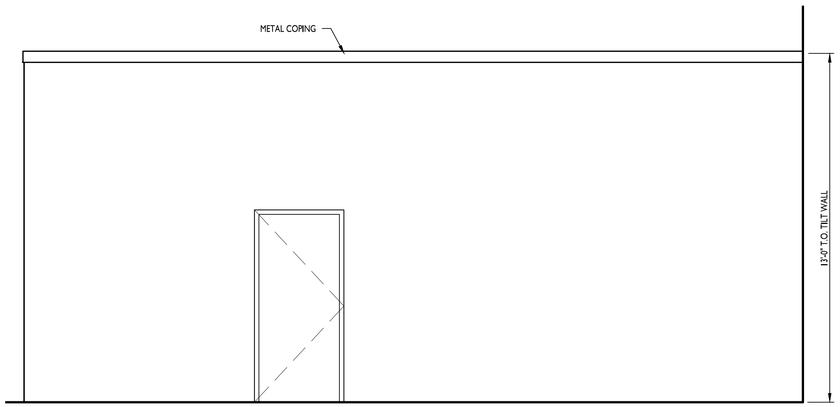
FINISH SCHEDULE

A603

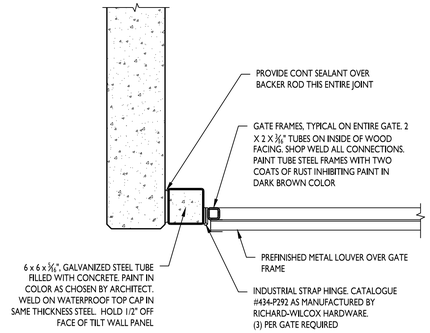


SEE DETAIL 7 ON THIS SHEET FOR ALL OTHER GATE REQUIREMENTS NOT SHOWN HERE

DETAIL AT FOOTING **6**
1" = 1'-0"



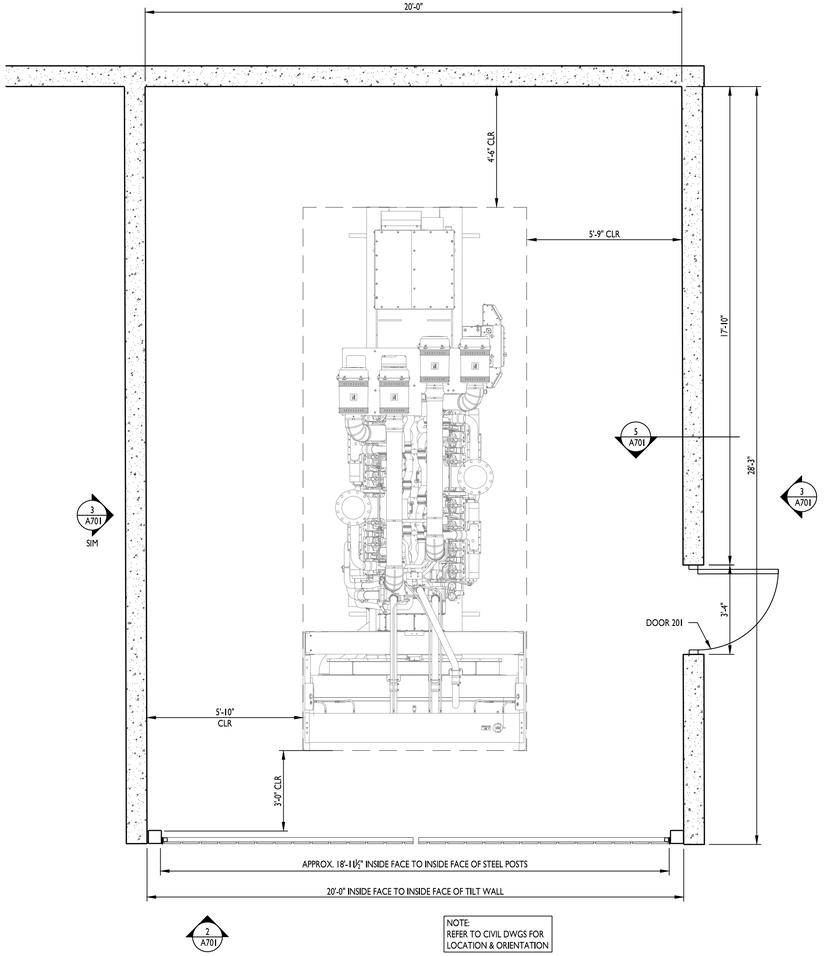
ELEVATION - SIDE **3**
3/8" = 1'-0"



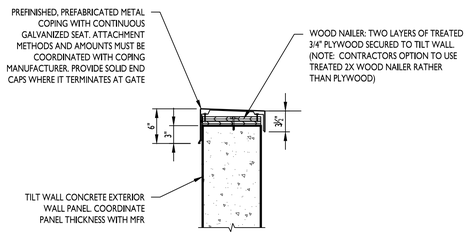
ALL STEEL PARTS OF GATE AND ALL GATE HARDWARE TO BE GALVANIZED. PRIME AND PAINT IN COLOR CHOSEN BY ARCHITECT

DETAIL AT JAMB **7**
1" = 1'-0"

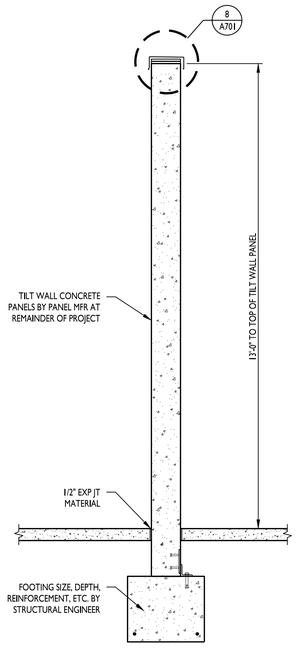
NOT USED **4**
3/8" = 1'-0"



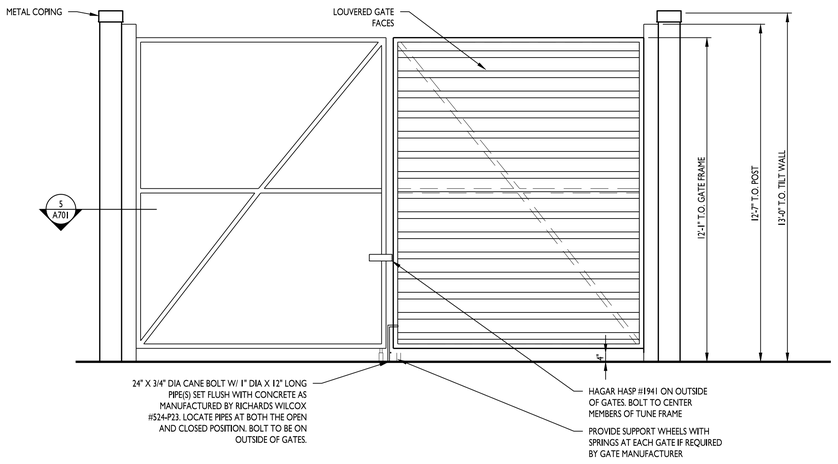
PLAN **1**
3/8" = 1'-0"



COPING DETAIL **8**
1" = 1'-0"



SECTION **5**
1/2" = 1'-0"



ELEVATION - FRONT **2**
3/8" = 1'-0"

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SCANNELL PROPERTIES

CERTIFICATION

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

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING A LOT 1

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

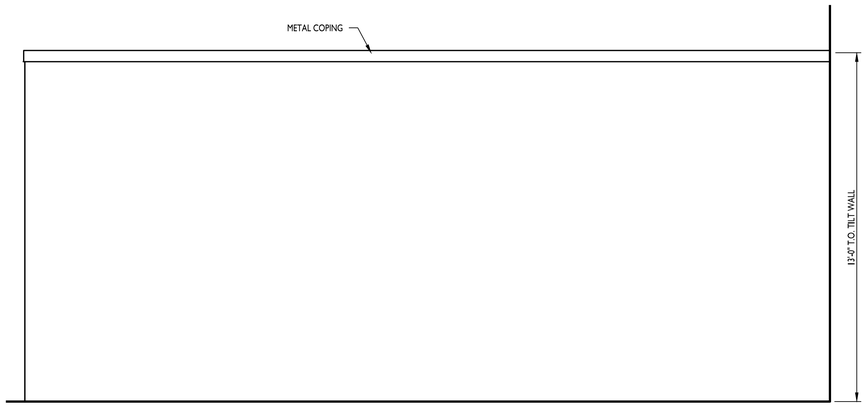
ISSUE DATES

	PERMIT SET	02.18.22
1	REVISIONS (ENTIRE SHEET)	06.14.22

210300

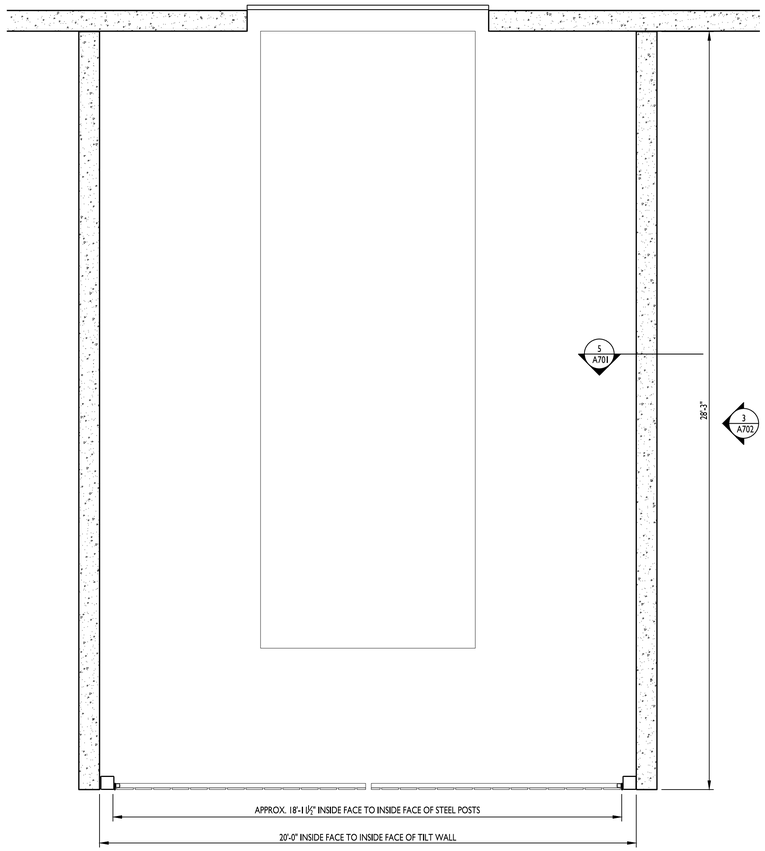
EXTERIOR ENCLOSURE

A701



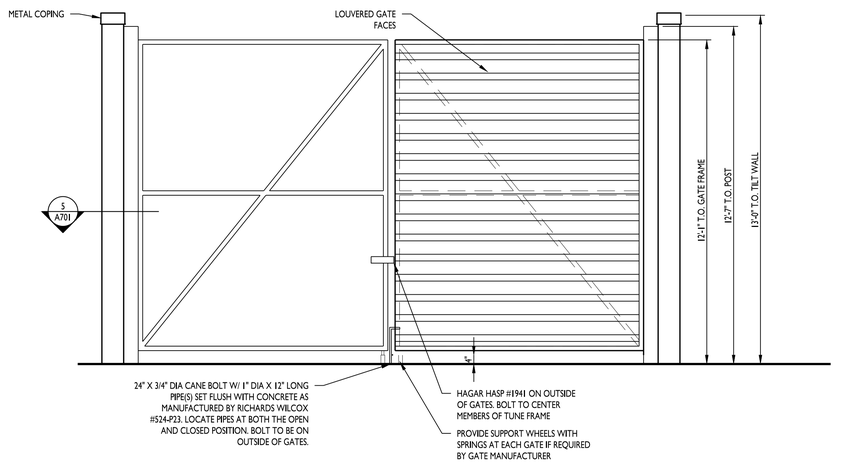
ELEVATION - SIDE **3**

3/8" = 1'-0"



PLAN **1**

3/8" = 1'-0"



ELEVATION - FRONT **2**

3/8" = 1'-0"

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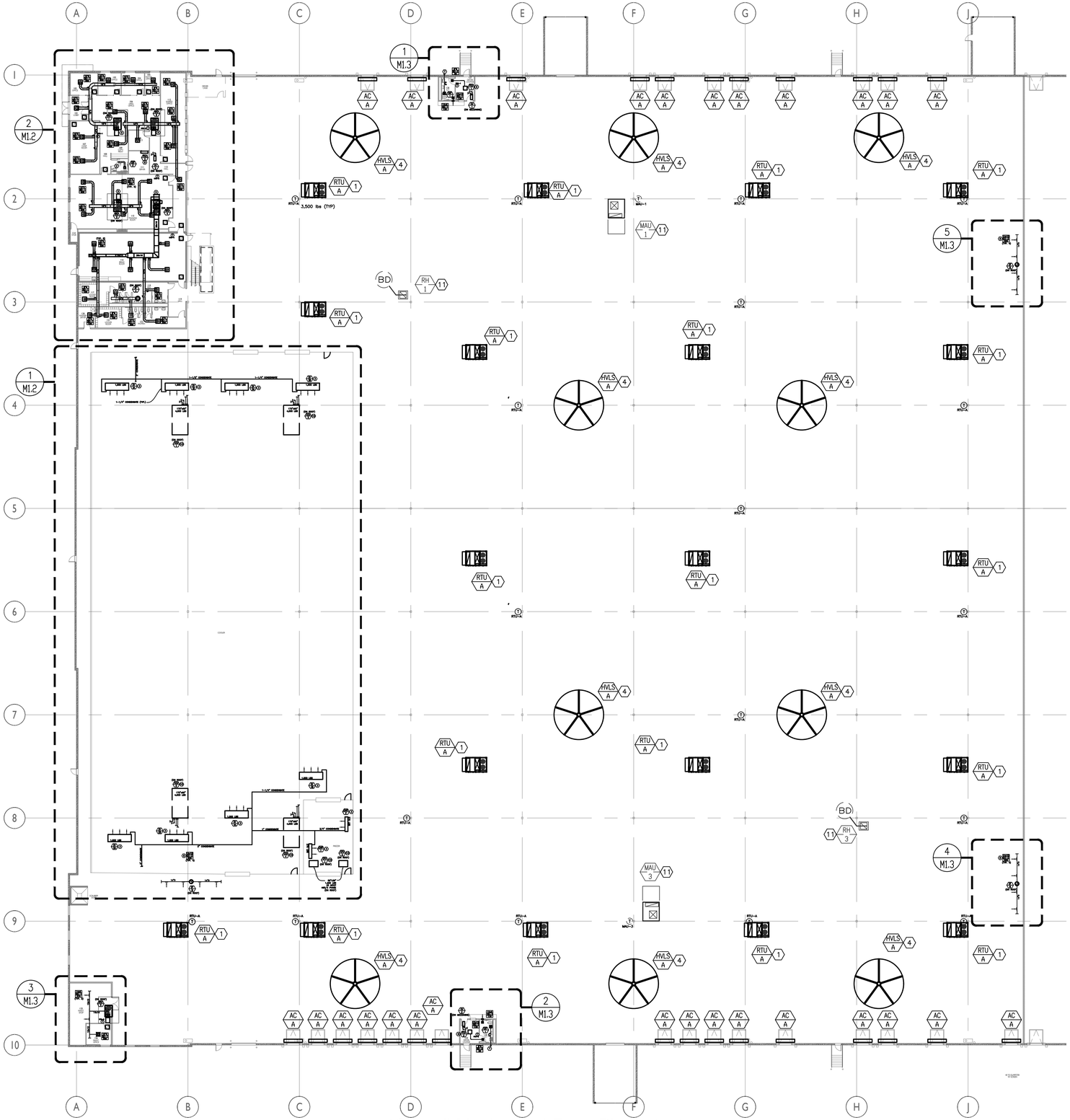
210300

COMPACTOR ENCLOSURE

A702



1 Overall Mechanical Floor Plan
scale: 1" = 25'-0"

MECHANICAL GENERAL NOTES:

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

MECHANICAL PLAN NOTES:

1 COORDINATE LOCATION OF RTU WITH FIRE SUPPRESSION PIPING AND STRUCTURE. PROVIDE INTERNALLY LINED RETURN AIR DUCT DROP WITH MESH SCREEN AND PROVIDE SUPPLY AIR DISCHARGE DROP BOX DIFFUSER SIMILAR TO CURBS PLUS DLPD 4015–30. NC TO BE UNDER 35 AT 9,000 CFM. PROVIDE SUPPLY AIR TRANSITION FROM RTU OPENING TO DROPBOX DIFFUSER AS REQUIRED. MOUNT THERMOSTAT ON ADJACENT COLUMN.

2 PROVIDE 6" EXHAUST VENT UP THROUGH ROOF. PROVIDE WITH WEATHERCAP.

3 ROUTE CONDENSATE AS DIRECTED TO FLOOR DRAIN. PROVIDE HEAT TRACE ON ALL FREEZER CONDENSATE PIPING.

4 COORDINATE EXACT LOCATION OF HVLS FAN. PROVIDE ASSOCIATED FAN CONTROLLER ON ADJACENT COLUMN.

5 ROUTE FULL SIZE RETURN AIR DUCT DOWN TO 36" ABOVE FINISH CEILING AND PROVIDE WITH SCREENED MESH OPENING.

7 PROVIDE 6" EXHAUST VENT OUT THROUGH WALL. PROVIDE WITH WEATHERCAP.

8 INSTALL BATTERY CHARGING EXHAUST DUCTWORK TIGHT TO BOTTOM OF STRUCTURE. PROVIDE EXHAUST GRILLES AS NOTED AT 30° FROM BOTTOM OF DUCT. EXHAUST FAN TO RUN CONTINUOUSLY.

9 ROUTE CONDENSATE PIPING TO SINK TAILPIECE OR HUB DRAIN ABOVE CEILING FURNISHED BY PLUMBER

10 INSTALL CONDENSING UNIT ON ROOF RAILS.

11 EXISTING SHELL BUILDING EQUIPMENT TO REMAIN AS CURRENTLY INSTALLED.

LEGEND

HVLS 1	GREENHECK HVLS/CIRCULATION FAN 24'–0" DIAMETER MODEL DS–6–24–170HV – 2HP, 460/3 PHASE, 250 LBS AND 6 BLADES. PROVIDE WITH MOUNTING ACCESSORIES AND CENTRAL CONTROL PANEL WITH BACNET INTERFACE FOR ALL (10) FANS. CONDUIT AND CONTROL WIRING BY OTHERS. (TYP. 10)
AC A	AIR CURTAIN – POWERED AIR MODEL ETD–2–108E. UNIT TO BE 108" LONG WITH 10 KW ELECTRIC HEATING. 16 MCA @ 460/3 PHASE, 220 LBS. PROVIDE WITH MAGNETIC DOOR SWITCH, WHITE INTAKE SUPPLY GRILLE, WALL MOUNTED THERMOSTAT AND WASHABLE ALUMINUM FILTER (TYP. 27)
EWH 1	ELECTRIC WALL HEATER – RAYWALL OR EQUAL. 2KW @ 277/1 PHASE. PROVIDE WITH RECESS MOUNTING FRAME, DISCONNECT, INTEGRAL THERMOSTAT.
⊠	SD–1 SUPPLY AIR DIFFUSER – AS SCHEDULED
▧	RG–1 RETURN AIR GRILLE – AS SCHEDULED
▧	RG–2 RETURN AIR GRILLE – AS SCHEDULED
⊠	EX–1 EXHAUST AIR GRILLE – AS SCHEDULED
⊠	EX–2 EXHAUST AIR GRILLE – AS SCHEDULED
⊥	SG–1 SUPPLY AIR GRILLE – AS SCHEDULED SG–2 SUPPLY AIR GRILLE – AS SCHEDULED
⊤	RETURN AIR GRILLE – AS SCHEDULED
(T) VAV 1–3	THERMOSTAT WITH ZONE/UNIT DESIGNATION. MOUNT AT 48" A.F.F.
CO₂	CARBON DIOXIDE SENSOR – MOUNT IN RETURN OR WALL AS SHOWN

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SCANNELL
PROPERTIES

CERTIFICATION

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS
BUILDING A LOT 1

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

MATTHEW DAVID KELSO
NUMBER PE-2016027003
9/6/2022

ISSUE DATES

PERMIT SET	04.21.22

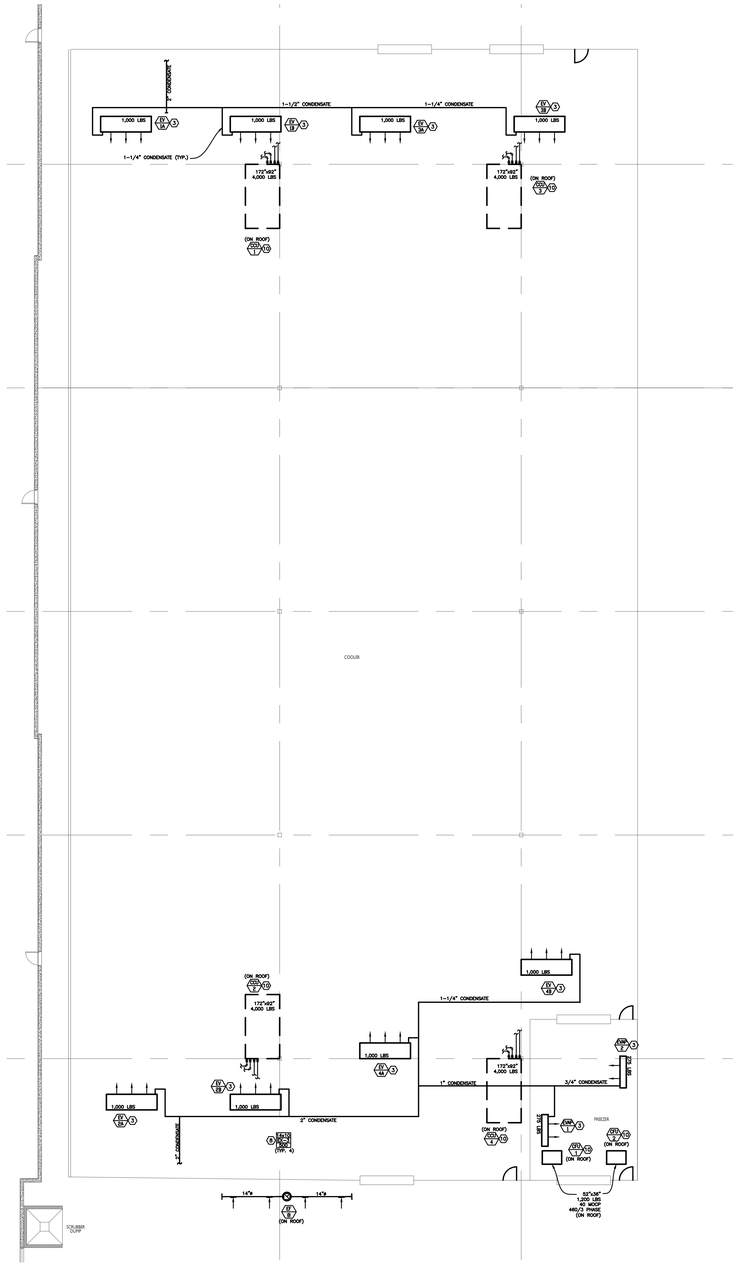
210300

M1.1

MetroAir

LSCC BLDG. #1 – TI
LEE'S SUMMIT, MO

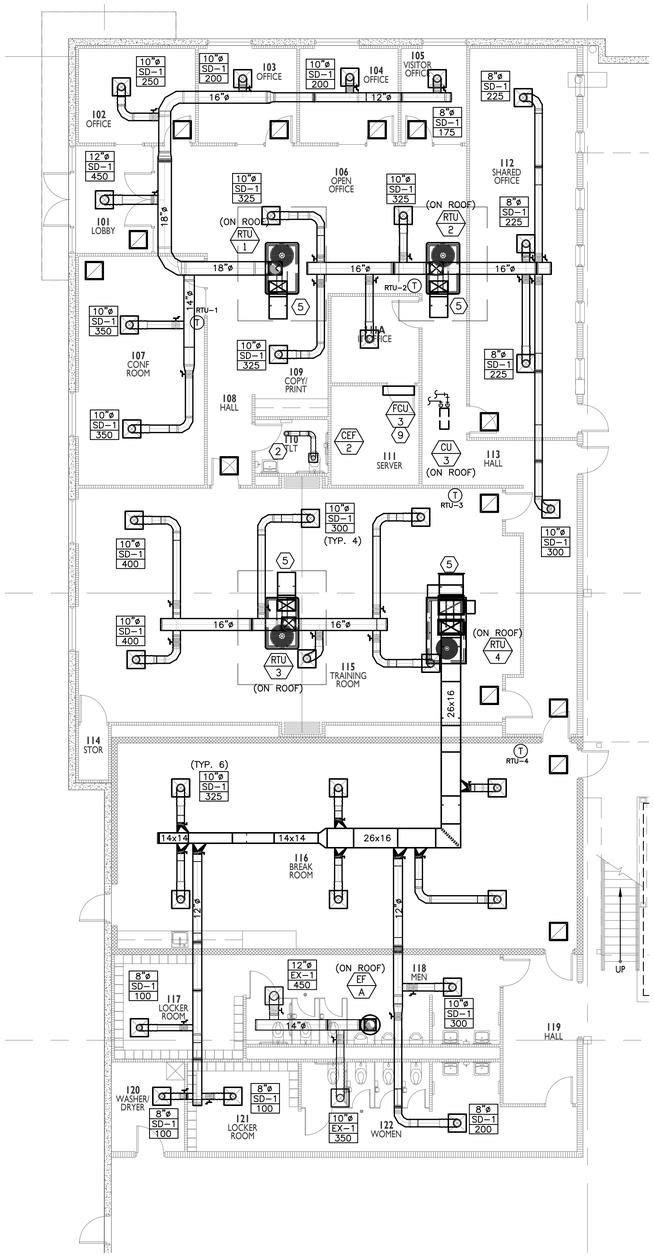
SCALE: AS NOTED	DATE: 9/6/22	DRAWN BY: M.D.K.
APPROVED BY: JDG	DWG # M1 of 5	
PERMIT DWGS.		



1 Cooler Mechanical Floor Plan

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

north



2 Office Mechanical Floor Plan

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

north

MECHANICAL PLAN NOTES:

1. COORDINATE LOCATION OF RTU WITH FIRE SUPPRESSION PIPING AND STRUCTURE. PROVIDE INTERNALLY LINED RETURN AIR DUCT DROP WITH MESH SCREEN AND PROVIDE SUPPLY AIR DISCHARGE DROP BOX DIFFUSER SIMILAR TO CURBS PLUS DLPD 4015-30. NC TO BE UNDER 35 AT 9,000 CFM. PROVIDE SUPPLY AIR TRANSITION FROM RTU OPENING TO DROPBOX DIFFUSER AS REQUIRED. MOUNT THERMOSTAT ON ADJACENT COLUMN.
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11. EXISTING SHELL BUILDING EQUIPMENT TO REMAIN AS CURRENTLY INSTALLED.

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SCANNELL PROPERTIES

CERTIFICATION

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING A LOT 1

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

STATE OF MISSOURI
MATTHEW DAVID LONG
NUMBER
PE-2016027003
9/6/2022
PROFESSIONAL ENGINEER

ISSUE DATES

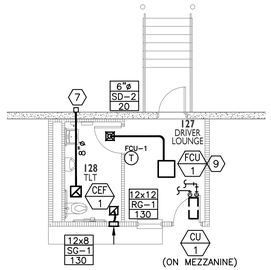
PERMIT SET	04.21.22

210300

M1.2

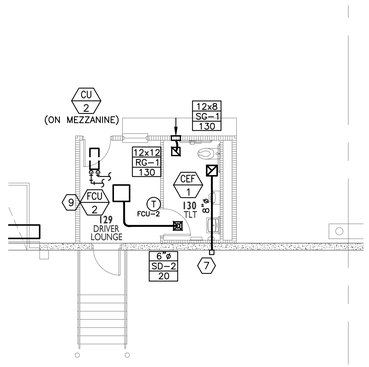
MetroAir

LSCC BLDG. #1 – TI		
LEE'S SUMMIT, MO		
SCALE: AS NOTED	DATE: 9/6/22	DRAWN BY: M.D.K.
APPROVED BY: JDG	DWG # M2 of 5	
PERMIT DWGS.		



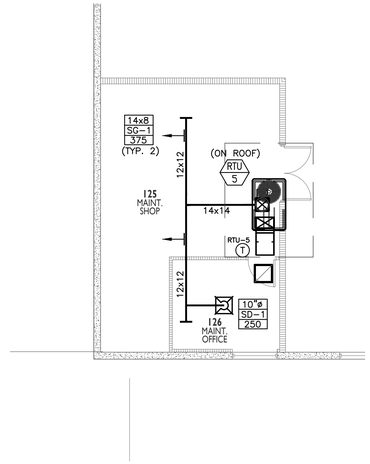
1 Driver's Mechanical Floor Plan
scale: 1/8" = 1'-0"

north



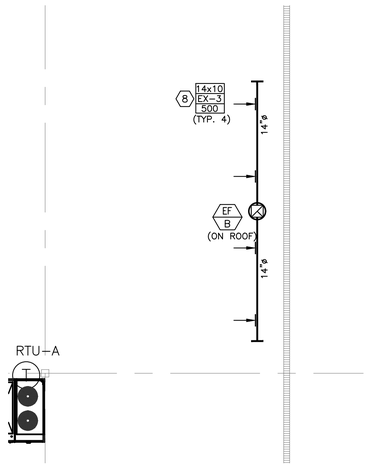
2 Driver's Mechanical Floor Plan
scale: 1/8" = 1'-0"

north



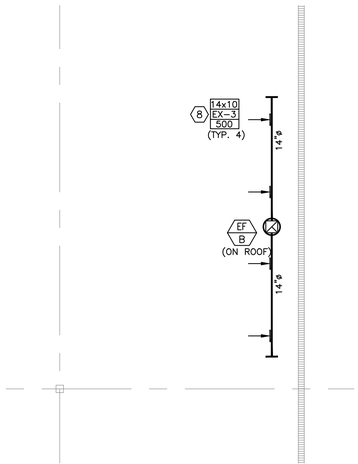
3 Maintenance Mechanical Floor Plan
scale: 1/8" = 1'-0"

north



4 Charging Area Mechanical Plan
scale: 1/8" = 1'-0"

north



5 Charging Area Mechanical Plan
scale: 1/8" = 1'-0"

north

MECHANICAL PLAN NOTES:

1. COORDINATE LOCATION OF RTU WITH FIRE SUPPRESSION PIPING AND STRUCTURE. PROVIDE INTERNALLY LINED RETURN AIR DUCT DROP WITH MESH SCREEN AND PROVIDE SUPPLY AIR DISCHARGE DROP BOX DIFFUSER SIMILAR TO CURBS PLUS DLPD 4015-30. NC TO BE UNDER 35 AT 9,000 CFM. PROVIDE SUPPLY AIR TRANSITION FROM RTU OPENING TO DROPBOX DIFFUSER AS REQUIRED. MOUNT THERMOSTAT ON ADJACENT COLUMN.
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SCANNELL
PROPERTIES

CERTIFICATION

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS
BUILDING A LOT 1

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

STATE OF MISSOURI
MATTHEW
GAMMARINO
NUMBER
PE-2016027003
PROFESSIONAL ENGINEER
9/6/2022

ISSUE DATES

PERMIT SET	04.21.22

210300

M1.3

MetroAir

LSCC BLDG. #1 – TI

LEE'S SUMMIT, MO

SCALE: AS NOTED	DATE: 9/6/22	DRAWN BY: M.D.K.
APPROVED BY: JDG	DWG # M3	of 5
PERMIT DWGS.		

SECTION 1500 - MECHANICAL GENERAL PROVISIONS

1.1 DESCRIPTION:

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

1.2 STANDARDS, REGULATIONS AND CODES:

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

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

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

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

1.3 LOCAL CONDITIONS:

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

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

1.4 CUTTING AND PATCHING:

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

1.5 OPERATION DURING CONSTRUCTION:

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

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

1.6 SAFETY REGULATIONS:

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

1.7 HOUSEKEEPING:

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

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

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

1.8 GRAPHIC REPRESENTATION AND JOB CONDITIONS:

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

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

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

1.9 GUARANTEES:

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

1.10 MOTORS AND CONTROLS:

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

1.11 PIPING IN ELECTRICAL ROOMS:

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

END OF SECTION

SECTION 15100 - HEATING, VENTILATION AND AIR CONDITIONING

1.1 SCOPE:

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

1.2 SHEET METAL:

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

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

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

1.3 GRILLES, REGISTERS, INLETS AND OUTLETS:

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

1.4 DUCTWORK ACCESSORIES:

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

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

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

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

1.5 AIR CONDITIONING UNITS:

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

1.6 FANS:

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

1.7 VIBRATION ISOLATION:

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

1.8 MISCELLANEOUS MECHANICAL EQUIPMENT:

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

1.9 CLEANING:

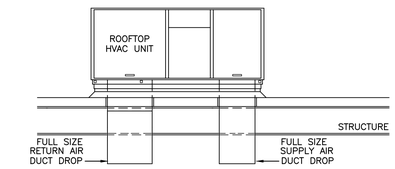
A. Clean system by operating at least three hours prior to final acceptance with temporary filters. Remove all filters and replace with clean.

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

1.10 TESTING AND ADJUSTING:

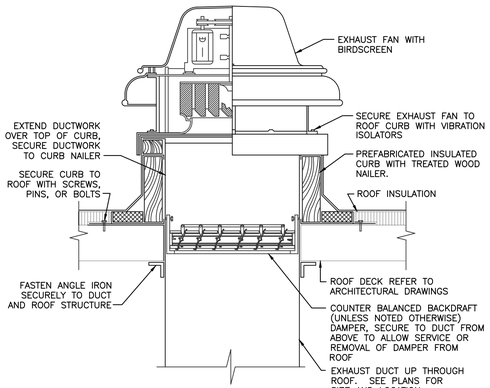
A. Contractor shall operate and test the air conditioning and ventilation systems and instruct the Owner in its operation. Perform a series of general capacity and operating tests. The tests shall demonstrate the specified capacities of various pieces of equipment.

END OF SECTION

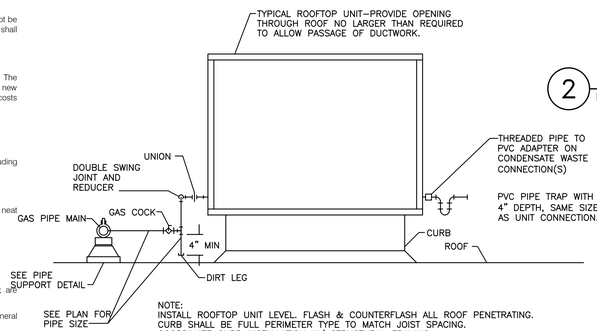


NOTES
1. PROVIDE OPENING THROUGH ROOF AND ROOF DECK INSULATION NO LARGER THAN REQUIRED TO ALLOW DUCTS TO PASS THROUGH. REFER TO PLANS FOR DUCT SIZES. FUTURE TI DUCTWORK CONNECTION BY OTHERS.

1 ROOFTOP UNIT DETAIL
NO SCALE

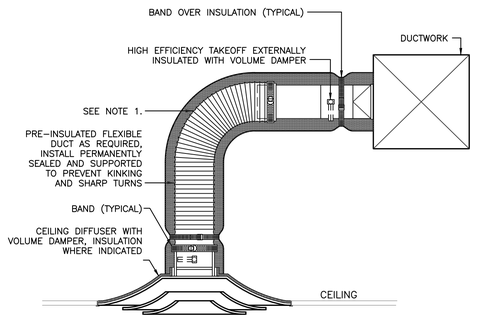


2 DOWNBLAST EXHAUST FAN DETAIL
NO SCALE



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

3 ROOFTOP UNIT CONNECTION DETAIL
NO SCALE



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

4 CEILING DIFFUSER DETAIL
NO SCALE

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

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

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

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

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

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

CURRAN
ARCHITECTURE
5719 LAWTON LOOP E. DR. #212
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SCANNELL PROPERTIES

CERTIFICATION

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING A LOT 1

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

STATE OF MISSOURI
MATTHEW DAVID GRESO
NUMBER PE-2016027003
PROFESSIONAL ENGINEER
9/6/2022

ISSUE DATES

PERMIT SET	04.21.22

210300

M2.1

MetroAir

LSCC BLDG. #1 – TI

LEE'S SUMMIT, MO

SCALE: AS NOTED	DATE: 9/6/22	DRAWN BY: M.D.K.
APPROVED BY: JDG	DWG # M4	of 5
PERMIT DWGS.		

ROOFTOP UNIT SCHEDULE (NATURAL GAS HEAT)

MARK	MANUFACTURER	MODEL	SERVICE	QUANTITY	NOMINAL TONNAGE	SUPPLY FAN				COOLING COIL		GAS HEATING COIL			ELECTRIC HEATING		ELECTRICAL			WEIGHT (LBS) W/ CURB	MIN. OUTSIDE AIR (CFM)	MAX. OUTSIDE AIR (CFM)	MIN. EER	NOTES
						CFM	ESP (IN)	MODE	HP	TH (MBH)	SH (MBH)	INPUT (MBH)	OUTPUT (MBH)	STAGES	INPUT (KW)	STAGES	MCA	MOCP	V/PH					
RTU-A	TRANE	YSD300G4RHC	WAREHOUSE	19	25	9,000	0.50	CV	7.5	300	234	400	320	2	---	---	56	70	460/3	3,200	800	800	10.0	A - H
RTU-1	TRANE	YSC060	MAIN OFFICE	1	5	1,975	0.75	CV	1.0	58	48	100	81	2	---	---	15	20	460/3	1,000	200	200	12.0	A - H
RTU-2	TRANE	YSC060	MAIN OFFICE	1	5	1,950	0.75	CV	1.0	58	48	100	81	2	---	---	15	20	460/3	1,000	175	175	12.0	A - H
RTU-3	TRANE	YSC060	MAIN OFFICE	1	5	2,000	0.75	CV	1.0	58	48	100	81	2	---	---	15	20	460/3	1,000	300	300	12.0	A - H
RTU-4	TRANE	YSC092F	MAIN OFFICE	1	7.5	2,750	0.75	CV	2.0	90	68	150	120	2	---	---	18	20	460/3	1,500	450	450	11.0	A - H
RTU-5	TRANE	YSC036	MAINTENANCE	1	3	1,000	0.50	CV	0.5	35	26	80	60	2	---	---	10	15	460/3	1,000	70	70	12.0	A - H

NOTES:

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

OUTSIDE AIR CALCULATIONS

UNIT SERVED	OCCUPANCY CLASSIFICATION	AREA (SQ. FT.)	PEOPLE PER 1,000 SQ. FT.	FIXED SEATING QUANTITY	QUANTITY OF PEOPLE	REQUIRED OUTSIDE AIR PER PERSON	REQUIRED OUTSIDE AIR PER SQ. FT.	TOTAL REQUIRED (CFM)	NOTES
RTU-A	WAREHOUSE	180,000	---	---	---	---	0.08	14,400	A
							REQUIRED VENTILATION	14,400 CFM	B

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

COOLER/FREEZER EQUIPMENT SCHEDULE

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

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

OUTSIDE AIR CALCULATIONS

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

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

DUCTLESS SPLIT SYSTEM EQUIPMENT SCHEDULE

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

NOTES:

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

GRILLE, REGISTER & DIFFUSER SCHEDULE

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

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

EXHAUST FAN SCHEDULE

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

NOTES:

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

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

CERTIFICATION

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING A LOT 1

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

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

ISSUE DATES

PERMIT SET	04.21.22

MetroAir

LSCC BLDG. #1 – TI

LEE'S SUMMIT, MO

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

210300

M3.1

PLUMBING SPECIFICATIONS

1. GENERAL PROVISIONS:
   A. PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, NECESSARY FOR THE COMPLETE INSTALLATION OF THE PLUMBING AND MECHANICAL SYSTEMS OUTLINED.
   B. OBTAIN ALL PERMITS, FEES, LICENSES, INSPECTIONS, AND CERTIFICATES OF COMPLIANCE OR APPROVAL AS REQUIRED BY THE AUTHORITIES.
   C. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE LAWS, CODES AND REGULATIONS OF THE GOVERNMENTAL BODIES HAVING JURISDICTION OVER THE SITE.
   D. ALL TESTING REQUIRED BY AUTHORITIES SHALL BE CONSIDERED PART OF THIS WORK.
   E. DURING CONSTRUCTION, ALL FIXTURES, EQUIPMENT, PIPE, DUCT, ETC. SHALL BE COVERED, PLUGGED, OR CAPPED AS REQUIRED TO KEEP CLEAN AND UNDAMAGED. ALL DAMAGED ITEMS SHALL BE RESTORED TO ORIGINAL CONDITION OR REPLACED. ALL PROTECTIVE COVERING SHALL BE REMOVED BEFORE FINAL ACCEPTANCE.
   F. PROVIDE ALL NECESSARY CUTTING AND PATCHING OF WALLS, FLOORS, CEILINGS, AND ROOFS AS NECESSARY. PATCH AROUND ALL OPENINGS SHALL MATCH ADJACENT AREA. COORDINATE ALL ROOFING WORK WITH OWNER OR RESPONSIBLE PARTY, SO THAT THE EXISTING ROOFING WARRANTY WILL BE MAINTAINED.
   G. CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIALS AGAINST DEFECTS FOR A PERIOD OF ONE YEAR FROM FINAL ACCEPTANCE.
2. OPERATION AND MAINTENANCE MANUALS:
   A. DURING THE COURSE OF CONSTRUCTION, COLLECT AND COMPILE OPERATING INSTRUCTIONS, WIRING DIAGRAMS, CATALOG CUTS, LUBRICATION AND PREVENTIVE MAINTENANCE INSTRUCTIONS, PARTS LISTS, ETC. FOR ALL EQUIPMENT FURNISHED UNDER THIS CONTRACT.
   B. ALL LITERATURE AND INSTRUCTIONS SHIPPED WITH THE EQUIPMENT SHALL BE SAVED FOR INCLUSION IN THE OPERATION AND MAINTENANCE MANUALS.
   C. ALL LITERATURE LISTED ABOVE AND ALL PAPERS LISTING WARRANTIES, ETC. SHALL BE BOUND IN A 3-RING BINDER AND LABELED WITH THE PROJECT NAME, ADDRESS, ARCHITECT, ENGINEER, CONTRACTORS, ETC.
3. MANUFACTURERS:
   A. MANUFACTURERS, MODEL NUMBERS, ETC. INDICATED OR SCHEDULED ON THE DRAWINGS SHALL BE INTERPRETED AS HAVING ESTABLISHED A STANDARD OF QUALITY AND SHALL NOT BE CONSTRUED AS LIMITING COMPETITION. ARTICLES, FIXTURES, EQUIPMENT OF QUALITY BY MANUFACTURERS SHALL BE ACCEPTABLE SUBJECT TO STRUCTURAL AND ELECTRICAL CONSTRAINTS OF THE PROJECT DESIGN, UNLESS NOTED OTHERWISE.
4. TESTING, BALANCING, AND CLEANING:
   A. ALL PIPING SHALL BE TESTED FOR LEAKS BEFORE BEING CONCEALED IN WALL CONSTRUCTION OR COVERED WITH INSULATION.
   B. SEWER AND VENT PIPING SHALL BE HYDROSTATICALLY TESTED WITH NO LESS THAN 10 FEET OF HEAD FOR A PERIOD OF NOT LESS THAN 15 MINUTES, PER THE LOCAL PLUMBING CODE, WITH NO LEAKS.
   C. DOMESTIC WATER PIPING SHALL BE HYDROSTATICALLY TESTED AT A PRESSURE OF NOT LESS THAN 1-1/2 TIMES THE OPERATING PRESSURE, BUT NOT LESS THAN 60 PSI, FOR A PERIOD OF NOT LESS THAN 2 HOURS, WITH NO LEAKS.
   D. NATURAL GAS PIPING SHALL BE PNEUMATICALLY TESTED AT A PRESSURE OF NOT LESS THAN 1-1/2 TIMES THE OPERATING PRESSURE, BUT NOT LESS THAN 50 PSI, FOR A PERIOD OF NOT LESS THAN 2 HOURS, WITH NO LEAKS.
   E. BEFORE DOMESTIC WATER PIPING IS PLACED IN SERVICE, ALL DOMESTIC WATER DISTRIBUTION SYSTEMS, INCLUDING THOSE FOR COLD WATER AND HOT WATER SYSTEMS, SHALL BE FLUSHED, STERILIZED AND CHLORINATED IN ACCORDANCE WITH HEALTH DEPARTMENT REGULATIONS. THE SYSTEMS SHALL BE THOROUGHLY FLUSHED OF ALL DIRT AND FOREIGN MATTER, THEN FILLED WITH WATER TREATED WITH 50 PPM OF CHLORINE. DURING THE FILLING PROGESS, VALVES AND FAUCETS SHALL BE OPENED SEVERAL TIMES TO ASSURE TREATMENT OF THE ENTIRE SYSTEM. THE TREATED WATER SHALL BE LEFT IN THE SYSTEM FOR 24 HOURS AFTER WHIGH TIME THE SYSTEM SHALL BE FLUSHED. IF THE RESIDUAL CHLORINE IS NOT LESS THAN 10 PPM, THE FLUSHING SHALL BE REPEATED. AFTER STERILIZATION, SAMPLES OF WATER IN THE SYSTEM SHALL BE APPROVED BY THE BOARD OF HEALTH.
5. PLUMBING:
   A. PROVIDE AN APPROVED WATER HAMMER ARRESTOR FOR EACH PLUMBING FIXTURE SUPPLY AS REQUIRED BY FIXTURE MANUFACTURER.
   B. ALL EXPOSED WASTE PIPE SHALL BE CHROME PLATED BRASS PIPE, NO FERROUS PIPE.
   C. PROVIDE CLEANOUTS AT EACH CHANGE OF DIRECTION AND AT 100 FOOT INTERVALS IN STRAIGHT RUNS.
   D. PROVIDE ACCESS PANELS FOR ALL CONCEALED VALVES AND TRAPS.
   E. CLEANOUTS:
      1) VINYL TILE FLOOR: JR SMITH #4140, OR EQUAL.
      2) QUARRY TILE FLOOR: JR SMITH #4200, OR EQUAL.
      3) CARPETED FLOOR: JR SMITH 4020-Y, OR EQUAL.
      4) UNFINISHED FLOOR: JR SMITH #4020, OR EQUAL.
      5) WALL: JR SMITH #4412, OR EQUAL, 24" ABOVE THE FLOOR.
      6) WAREHOUSE FLOORS/YORK TRUCK AREAS: JR SMITH #4142, OR EQUAL, WITH HEAVY DUTY CAST IRON BODY AND ROUND ADJUSTABLE SCORIATED EXTRA HEAVY DUTY NICKEL BRONZE TOP.
      7) GRADE: JR SMITH #4256, OR EQUAL, WITH HEAVY DUTY CAST IRON BODY AND COVER.
   F. PROVIDE DIELECTRIC UNIONS WITH APPROPRIATE END CONNECTIONS TO MATCH THE PIPE SYSTEM IN WHICH INSTALLED (SCREWED, SOLDERED, OR FLANGED). PROVIDE DIELECTRIC UNIONS ON ALL PIPING CONNECTIONS TO HOT WATER HEATERS AND EXPANSION TANKS.
   G. WATER HEATERS:
      1) EVERY WATER HEATER SHALL HAVE AN APPROVED MEANS INSTALLED ON THE COLD WATER SUPPLY LINE ABOVE THE EQUIPMENT TO PREVENT SIPHONING OF A STORAGE WATER HEATER OR TANK.
      2) BOTTOM FED WATER HEATERS AND TANKS CONNECT TO WATER HEATERS SHALL HAVE A VACCUM RELIEF VALVE INSTALLED, ANSI Z21.22.
      3) STORAGE HEATERS OPERATING ABOVE ATMOSPHERIC PRESSURE SHALL HAVE AN APPROVED PRESSURE RELIEF VALVE AND/OR TEMPERATURE RELIEF VALVE.
   H. ALL SEWER PIPING LOCATED INSIDE THE BUILDING SHALL BE INSTALLED WITH THE FOLLOWING SLOPES.
      1) INSTALL 2-1/2" AND SMALLER PIPE AT 1/4" PER FOOT FALL.
      2) INSTALL 3" - 6" PIPE AT 1/8" PER FOOT FALL.
      3) INSTALL 8" AND LARGER PIPE AT 1/16" PER FOOT FALL.
6. PIPING:
   A. DOMESTIC COLD, HOT, AND HOT WATER RECIRCULATING (ABOVEGROUND).
      1) TYPE L HARD DRAWN COPPER TUBING, ASTM B-88.
         a) WROUGHT COPPER SOLDERED FITTINGS, ASTM B75 ALLOY C12200, ANSI B16.22, MSS SP-104.
         b) MECHANICAL PRESS COPPER FITTINGS FOR USE IN PLUMBING OR MECHANICAL APPLICATIONS. ASME B16.22, ASME B16.51, or ASME B16.18. MECHANICAL PRESS COPPER FITTINGS SHALL CONFORM TO IAPMO PS-117 OR ASME B16.51.
      2) PEX, HIGH-DENSITY CROSS-LINKED POLYETHYLENE TUBING SHALL BE MANUFACTURED TO THE REQUIREMENTS OF ASTM F876 AND MEET THE STANDARD GRADE HYDROSTATIC PRESSURE RATINGS FROM PLASTIC PIPE INSTITUTE IN ACCORDANCE WITH TR-4/03. (MUST BE INSTALLED PER THE MANUFACTURERS REQUIREMENTS FOR PLENUM USE)
         a) PEX-A AND PEX-B MEETING ANSI/NSF61 AND ANSI/NSF372 STANDARDS FOR POTABLE WATER SAFETY AND LEAD-FREE STANDARDS AND MUST BE MARKED WITH "PW-S", "NSF-61-S" OR OTHER NSF-APPROVED MARKING. ASTM F2023 FOR USE WITH CHLORINATED WATER. (MUST BE INSTALLED PER THE MANUFACTURERS REQUIREMENTS FOR PLENUM USE)
         b) PEX MECHANICAL, CRIMP/INSERT OR EXPANSION FITTINGS INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. PIPE SIZES GIVEN ON THE DRAWINGS ARE NOMINAL COPPER PIPE SIZE. INCREASE PEX PIPING SIZE TO EQUAL OR EXCEED COPPER PIPE INSIDE DIAMETER FOR SUPPLY MAINS. (MUST BE INSTALLED PER THE MANUFACTURERS REQUIREMENTS FOR PLENUM USE)
      3) VALVES
         a) TO BE INSTALLED ON THE FIXTURE SUPPLY TO EACH PLUMBING FIXTURE.
         b) TO BE INSTALLED ON THE WATER SUPPLY SIDE TO EACH APPLIANCE OR MECHANICAL EQUIPMENT.
         c) TYPES:
            1. GATE VALVE: JOMAR T/S-3015 OR EQUAL. LEAD-FREE NSF 61, ANSI B1.20.1.
            2. GLOBE VALVE: JOMAR T6S OR EQUAL.
            3. BALL VALVE: JOMAR JP100PNP OR EQUAL COMPACT LEAD FREE BRASS BALL VALVE. UL842, CSA 3311-12 & 3311-92, FM, CALIFORNIA CODE AB1953, NSF61 ANNEX G APPROVED.
            4. BALL VALVE: JOMAR T-100NE OR EQUAL. UL842, FM, CSA, NSF 61-8, MSS SP-110
   B. DOMESTIC COLD, AND HOT WATER (UNDERGROUND).
      1) TYPE L HARD DRAWN COPPER TUBING, ASTM B-88.
         a) WROUGHT COPPER SOLDERED FITTINGS, ASTM B75 ALLOY C12200, ANSI B16.22, MSS SP-104.
         b) MECHANICAL PRESS COPPER FITTINGS FOR USE IN PLUMBING OR MECHANICAL APPLICATIONS. ASME B16.22, ASME B16.51, or ASME B16.18. MECHANICAL PRESS COPPER FITTINGS SHALL CONFORM TO IAPMO PS-117 OR ASME B16.51.
      2) PEX, HIGH-DENSITY CROSS-LINKED POLYETHYLENE TUBING SHALL BE MANUFACTURED TO THE REQUIREMENTS OF ASTM F876 AND MEET THE STANDARD GRADE HYDROSTATIC PRESSURE RATINGS FROM PLASTIC PIPE INSTITUTE IN ACCORDANCE WITH TR-4/03.
         a) PEX-A AND PEX-B MEETING ANSI/NSF61 AND ANSI/NSF372 STANDARDS FOR POTABLE WATER SAFETY AND LEAD-FREE STANDARDS AND MUST BE MARKED WITH "PW-S", "NSF-61-S" OR OTHER NSF-APPROVED MARKING. ASTM F2023 FOR USE WITH CHLORINATED WATER.
         b) PEX MECHANICAL, CRIMP/INSERT OR EXPANSION FITTINGS INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. PIPE SIZES GIVEN ON THE DRAWINGS ARE NOMINAL COPPER PIPE SIZE. INCREASE PEX PIPING SIZE TO EQUAL OR EXCEED COPPER PIPE INSIDE DIAMETER FOR SUPPLY MAINS.
         c) HDPE, PIGMENTED BLUE THROUGHOUT, CTS SIZES 1"-2" ANNA C901 4710 DR9 PC250 IPS SIZES 2"-3", ANNA C901 4710 DR11 PC200.
   C. DOMESTIC WATER SERVICE, 1"-3"
      1) TYPE K SOFT DRAWN COPPER TUBING, ASTM B-88.
         a) Cast Copper Alloy Fittings for Flared Copper Tube, ASME/ANSI B16.26:
      2) HDPE, PIGMENTED BLUE THROUGHOUT, CTS SIZES 1"-2" ANNA C901 4710 DR9 PC250 IPS SIZES 2"-3", ANNA C901 4710 DR11 PC200 MATERIAL AND INSTALLATION MUST CONFORM TO WATER DEPARTMENT REQUIREMENTS.
   D. LEAD CONTENT OF WATER SUPPLY PIPE AND FITTINGS:
      1) PIPE AND PIPE FITTINGS, INCLUDING VALVES AND FAUCETS, UTILIZED IN THE WATER SUPPLY SYSTEM SHALL NOT HAVE MORE THAN 0% LEAD CONTENT.
      2) PIPE, PIPE FITTINGS, JOINTS, VALVES, FAUCETS, AND FIXTURE FITINGS UTILIZED TO SUPPLY WATER FOR DRINKING OR COOKING PURPOSES SHALL COMPLY WITH NSF 372 AND SHALL HAVE A WEIGHTED AVERAGE LEAD CONTENT OF 0.25% OR LESS.

PLUMBING SPECIFICATIONS (CONTINUED)

   E. STORM SEWER, SANITARY SEWER, GREASE WASTE, SAND OIL WASTE, AND VENTS. (UNDERGROUND, INTERIOR TO THE BUILDING).
      1) ABS SCHEDULE 40 CELLULAR CORE (FOAM CORE) PIPE AND DWV FITTING SYSTEM:(ASTM F1488) PIPE AND FITTINGS SHALL BE MANUFACTURED FROM ABS COMPOUND WITH A CELL CLASS OF 42222 FOR PIPE AND 32222 FOR FITTINGS AS PER ASTM D 3965 AND CONFORM WITH NATIONAL SANITATION FOUNDATION (NSF) STANDARD 14. PIPE SHALL BE IRON PIPE SIZE (IPS) CONFORMING TO ASTM F 628 FITTINGS SHALL CONFORM TO ASTM D 2661. SOLVENT CEMENTS SHALL CONFORM TO ASTM D 2235.
      2) PVC SCHEDULE 40 CELLULAR CORE (FOAM CORE) PIPE AND DWV FITTING SYSTEM:(ASTM F1488) PIPE AND FITTINGS SHALL BE MANUFACTURED FROM PVC COMPOUND WITH A CELL CLASS OF 11432 PER ASTM D 4396 FOR PIPE AND 12454 PER ASTM D 1784 FOR FITTINGS AND CONFORM WITH NATIONAL SANITATION FOUNDATION (NSF) STANDARD 14. PIPE SHALL BE IRON PIPE SIZE (IPS) CONFORMING TO ASTM F 841. INJECTION MOLDED FITTINGS SHALL CONFORM TO ASTM D 2665. FABRICATED FITTINGS SHALL CONFORM TO ASTM F 1866. SOLVENT CEMENTS SHALL CONFORM TO ASTM D 2564.
      3) PVC SCHEDULE 40 SOLID WALL PIPE AND DWV FITTING SYSTEM:(ASTM D2665) PIPE AND FITTINGS SHALL BE MANUFACTURED FROM PVC COMPOUND WITH A CELL CLASS OF 12454 PER ASTM D 1784 AND CONFORM WITH NATIONAL SANITATION FOUNDATION (NSF) STANDARD 14. PIPE SHALL BE IRON PIPE SIZE (IPS) CONFORMING TO ASTM D 1785 AND ASTM D 2665. INJECTION MOLDED FITTINGS SHALL CONFORM TO ASTM D 2665. FABRICATED FITTINGS SHALL CONFORM TO ASTM F 1866. SOLVENT CEMENTS SHALL CONFORM TO ASTM D 2564.
      4) HUBLESS CAST IRON SOIL PIPE AND FITTINGS: HUBLESS CAST IRON PIPE AND FITTINGS SHALL BE MANUFACTURED FROM GRAY CAST IRON AND SHALL CONFORM TO ASTM A 888 AND CISPI STANDARD 301. HUBLESS COUPLINGS SHALL CONFORM TO CISPI STANDARD 310 AND BE CERTIFIED BY NSF® INTERNATIONAL.
      5) HUB AND SPIGOT CAST IRON SOIL PIPE AND FITTINGS: HUB AND SPIGOT CAST IRON PIPE AND FITTINGS SHALL BE MANUFACTURED FROM GRAY CAST IRON AND SHALL CONFORM TO ASTM A 74.
   F. STORM SEWER, SANITARY SEWER, GREASE WASTE, SAND OIL WASTE, AND VENTS. (ABOVE GROUND, INTERIOR TO THE BUILDING).
      1) ABS SCHEDULE 40 CELLULAR CORE (FOAM CORE) PIPE AND DWV FITTING SYSTEM:(ASTM F1488) PIPE AND FITTINGS SHALL BE MANUFACTURED FROM ABS COMPOUND WITH A CELL CLASS OF 42222 FOR PIPE AND 32222 FOR FITTINGS AS PER ASTM D 3965 AND CONFORM WITH NATIONAL SANITATION FOUNDATION (NSF) STANDARD 14. PIPE SHALL BE IRON PIPE SIZE (IPS) CONFORMING TO ASTM F 628 FITTINGS SHALL CONFORM TO ASTM D 2661. SOLVENT CEMENTS SHALL CONFORM TO ASTM D 2235. (NOT FOR USE IN A RETURN AIR PLENUM)
      2) PVC SCHEDULE 40 CELLULAR CORE (FOAM CORE) PIPE AND DWV FITTING SYSTEM:(ASTM F1488) PIPE AND FITTINGS SHALL BE MANUFACTURED FROM PVC COMPOUND WITH A CELL CLASS OF 11432 PER ASTM D 4396 FOR PIPE AND 12454 PER ASTM D 1784 FOR FITTINGS AND CONFORM WITH NATIONAL SANITATION FOUNDATION (NSF) STANDARD 14. PIPE SHALL BE IRON PIPE SIZE (IPS) CONFORMING TO ASTM F 841. INJECTION MOLDED FITTINGS SHALL CONFORM TO ASTM D 2665. FABRICATED FITTINGS SHALL CONFORM TO ASTM F 1866. SOLVENT CEMENTS SHALL CONFORM TO ASTM D 2564. (NOT FOR USE IN A RETURN AIR PLENUM)
      3) PVC SCHEDULE 40 SOLID WALL PIPE AND DWV FITTING SYSTEM: (ASTM D 2665) PIPE AND FITTINGS SHALL BE MANUFACTURED FROM PVC COMPOUND WITH A CELL CLASS OF 12454 PER ASTM D 1784 AND CONFORM WITH NATIONAL SANITATION FOUNDATION (NSF) STANDARD 14. PIPE SHALL BE IRON PIPE SIZE (IPS) CONFORMING TO ASTM D 1785 AND ASTM D 2665. INJECTION MOLDED FITTINGS SHALL CONFORM TO ASTM D 2665. FABRICATED FITTINGS SHALL CONFORM TO ASTM F 1866. SOLVENT CEMENTS SHALL CONFORM TO ASTM D 2564. (WHERE APPROVED BY LOCAL JURISDICTIONS) (NOT FOR USE IN A RETURN AIR PLENUM)
      4) HUBLESS CAST IRON SOIL PIPE AND FITTINGS: HUBLESS CAST IRON PIPE AND FITTINGS SHALL BE MANUFACTURED FROM GRAY CAST IRON AND SHALL CONFORM TO ASTM A 888 AND CISPI STANDARD 301. HUBLESS COUPLINGS SHALL CONFORM TO CISPI STANDARD 310 AND BE CERTIFIED BY NSF® INTERNATIONAL.
      5) HUB AND SPIGOT CAST IRON SOIL PIPE AND FITTINGS: HUB AND SPIGOT CAST IRON PIPE AND FITTINGS SHALL BE MANUFACTURED FROM GRAY CAST IRON AND SHALL CONFORM TO ASTM A 74.
   G. STORM SEWER, SANITARY SEWER, GREASE WASTE, SAND OIL WASTE, AND VENTS. (UNDERGROUND, EXTERIOR TO THE BUILDING).
      1) ABS SCHEDULE 40 CELLULAR CORE (FOAM CORE) PIPE AND DWV FITTING SYSTEM: (ASTM F1488) PIPE AND FITTINGS SHALL BE MANUFACTURED FROM ABS COMPOUND WITH A CELL CLASS OF 42222 FOR PIPE AND 32222 FOR FITTINGS AS PER ASTM D 3965 AND CONFORM WITH NATIONAL SANITATION FOUNDATION (NSF) STANDARD 14. PIPE SHALL BE IRON PIPE SIZE (IPS) CONFORMING TO ASTM F 2680 FITTINGS SHALL CONFORM TO ASTM D 2680. SOLVENT CEMENTS SHALL CONFORM TO ASTM D 2235.
      2) PVC SCHEDULE 40 CELLULAR CORE (FOAM CORE) PIPE AND DWV FITTING SYSTEM: (ASTM F1488) PIPE AND FITTINGS SHALL BE MANUFACTURED FROM PVC COMPOUND WITH A CELL CLASS OF 11432 PER ASTM D 4396 FOR PIPE AND 12454 PER ASTM D 1784 FOR FITTINGS AND CONFORM WITH NATIONAL SANITATION FOUNDATION (NSF) STANDARD 14. PIPE SHALL BE IRON PIPE SIZE (IPS) CONFORMING TO ASTM F 841. INJECTION MOLDED FITTINGS SHALL CONFORM TO ASTM F 794. FABRICATED FITTINGS SHALL CONFORM TO ASTM F 1866. SOLVENT CEMENTS SHALL CONFORM TO ASTM D 2564.
      3) PVC SCHEDULE 40 SOLID WALL PIPE AND DWV FITTING SYSTEM (ASTM D 2665) PIPE AND FITTINGS SHALL BE MANUFACTURED FROM PVC COMPOUND WITH A CELL CLASS OF 12454 PER ASTM D 1784 AND CONFORM WITH NATIONAL SANITATION FOUNDATION (NSF) STANDARD 14. PIPE SHALL BE IRON PIPE SIZE (IPS) CONFORMING TO ASTM F 794. FITTINGS SHALL CONFORM TO ASTM F 794. SOLVENT CEMENTS SHALL CONFORM TO ASTM D 2564.
      4) HUBLESS CAST IRON SOIL PIPE AND FITTINGS: HUBLESS CAST IRON PIPE AND FITTINGS SHALL BE MANUFACTURED FROM GRAY CAST IRON AND SHALL CONFORM TO ASTM A 888 AND CISPI STANDARD 301. HUBLESS COUPLINGS SHALL CONFORM TO CISPI STANDARD 310 AND BE CERTIFIED BY NSF® INTERNATIONAL.
      5) HUB AND SPIGOT CAST IRON SOIL PIPE AND FITTINGS: HUB AND SPIGOT CAST IRON PIPE AND FITTINGS SHALL BE MANUFACTURED FROM GRAY CAST IRON AND SHALL CONFORM TO ASTM A 74.
      6) COPPER DWV: DRAINAGE TUBE SHALL CONFORM TO ASTM B306, WROUGHT COPPER FITTINGS, ANSI B-16.29.
      7) GALVANIZED STEEL PIPE, WITH MALLEABLE IRON, THREADED FITTINGS, DRAINAGE PATTERN FOR SEWERS SHALL CONFORM TO ASTM A 53.
   H. NATURAL GAS.
      1) BLACK STEEL PIPE, SCHEDULE 40, ASTM A53.
         a) PIPE 3" AND SMALLER; 150 LB. MALLEABLE IRON, THREADED FITTINGS.
         b) PIPE 4" AND SMALLER: VEGA MEGAPRESS G FOR WATER AND GAS. GSA LC4, TSSA/ASME B31 FOR USE WITH ASTM A53 SCHEDULE 40 BLACK IRON PIPE.
         c) PIPE 2-1/2" AND LARGER, WELDED.
         d) PLUG VALVE: ROCKWELL NORDSTROM FIGURE NO. 142 OR 143.
         e) BALL VALVE: JOMAR T-100NE. APPROVALS- UL842, FM, CSA, NSF 61-8, MSS SP-110
      2) GAS PIPING LABELING:
         a) ALL ELEVATED PRESSURE GAS PIPING SHALL BE LABELED EVERY 40 FEET WITH SIGNS INDICATING "ELEVATED PRESSURE".
      3) GAS PIPING PAINTING:
         a) ALL BLACK STEEL GAS PIPING LOCATED EXTERIOR TO THE BUILDING SHALL BE PRIMED AND PAINTED TO EITHER MATCH ADJACENT EXTERIOR WHERE LOCATED ON OR NEAR EXTERIOR WALL AND PAINTED SAFETY YELLOW WHERE LOCATED ON THE ROOF.
   I. ALL PIPE HANGERS AND SUPPORTS SHALL BE STANDARD PRODUCTS OF GRINNELL, FEE AND MASON, OR ELCEN. HANGER SPACING SHALL BE IN ACCORDANCE WITH MSS-SP-69.
   J. SLEEVES
      1) PROVIDE, SET, AND PROPERLY LOCATE PIPE SLEEVES AS REQUIRED FOR THIS WORK. ALL SLEEVES SHALL BE OF SUFFICIENT SIZE TO PERMIT PIPE MOVEMENT DUE TO EXPANSION AND CONTRACTION AND TO ACCOMMODATE PIPE INSULATION.
      2) INTERIOR PARTITIONS: 18 GAGE GALVANIZED STEEL, PACK BETWEEN PIPE AND SLEEVE WITH FIRE SAFING AND CAULK AT EACH END WITH FIRE RESISTANT SEALANT.
      3) ROOF: PROSET OR EQUAL MANUFACTURED PVC SCHEDULE 40 PIPE SLEEVE WITH WATERPROOF SEAL. COORDINATE WITH ROOFING CONTRACTOR AND FLASH AS REQUIRED TO MAINTAIN ROOF WARRANTY.
      4) PROTECTION AGAINST CONTACT: METALLIC PIPING, EXCEPT FOR CAST IRON, DUCTILE IRON AND GALVANIZED STEEL SHALL NOT BE PLACED IN DIRECT CONTACT WITH STEEL FRAMING MEMBERS, CONCRETE, OR CINDER WALLS AND FLOORS OR OTHER MASONRY. METALLIC PIPING SHALL NOT BE PLACED IN DIRECT CONTACT WITH CORROSIVE SOIL. SHEATHING USED TO PREVENT DIRECT CONTACT SHALL HAVE A THICKNESS OF GREATER THAN .008; AND THE SHEATHING SHALL BE MADE OF PLASTIC. ANY PIPE THAT PASSES THROUGH A FOUNDATION WALL OR FOOTING SHALL BE PROVIDED WITH A RELIEVING ARCH, OR A PIPE SLEEVE SHALL BE BUILT INTO THE FOUNDATION WALL. THE SLEEVE SHALL BE TWO SIZES GREATER THAN THE PIPE PASSING THOUGH THE WALL OR FOOTING.
      5) PLUMBING VENTS: FLASH ROOF VENT INTO ROOFING SYSTEM AS REQUIRED BY THE ROOFING CONTRACTOR TO MANTAIN EXISTING ROOF WARRANTY. ALL PLUMBING VENT TERMINALS SHALL TERMINATE A MINIMUM OF 12" ABOVE ROOF OR EQUAL TO HEIGHT OF PARAPET, WHICHEVER IS GREATER.
   K. COMPRESSED AIR PIPING
      1) PARKER TRANSAIR PIPING, EXTRUDED ALUMINUM PIPE, CONFORMS TO ASTM B241.
         a) PARKER TRANSAIR FITTINGS CONFORMING TO UL94HB
         b) PARKER TRANSAIR MOUNTING CLIPS, CONFORMING TO UL94V-2
      2) TYPE L HARD DRAWN COPPER TUBING, ASTM B-88.
         a) WROUGHT BRONZE SOLDERED FITTINGS.
7. WATER HEATERS
   A. COMMERCIAL, LIGHT-DUTY, STORAGE, ELECTRIC, DOMESTIC-WATER HEATERS:
      1. STANDARD: UL 174
      2. STORAGE-TANK CONSTRUCTION: STEEL, VERTICAL ARRANGEMENT.
         a. PRESSURE RATING: 150 PSIG.
         b. INTERIOR FINISH: COMPLY WITH NSF 61 AND NSF 372 BARRIER MATERIALS FOR POTABLE-WATER TANK LININGS, INCLUDING EXTENDING LINING MATERIAL INTO TAPPINGS.
      3. FACTORY-INSTALLED, STORAGE-TANK APPURTENANCES:
         a. ANODE ROD: REPLACEABLE MAGNESIUM.
         b. DIP TUBE: REQUIRED UNLESS COLD-WATER INLET IS NEAR BOTTOM OF TANK.
         c. DRAIN VALVE: CORROSION-RESISTANT METAL WITH HOSE-END CONNECTION.
         d. INSULATION: COMPLY WITH ASHRAE/IES 90.1
         e. JACKET: STEEL WITH ENAMELED FINISH OR HIGH-IMPACT COMPOSITE MATERIAL.
         f. HEAT-TRAP FITTINGS: INLET TYPE IN COLD-WATER INLET AND OUTLET TYPE IN HOT-WATER OUTLET.
         g. HEATING ELEMENTS: ELECTRIC, SCREW-IN IMMERSION TYPE.
         h. TEMPERATURE CONTROL: ADJUSTABLE THERMOSTAT.
         i. SAFETY CONTROL: HIGH-TEMPERATURE-LIMIT CUTOFF DEVICE OR SYSTEM.
         j. RELIEF VALVE: ASME RATED AND STAMPED FOR COMBINATION TEMPERATURE-AND-PRESSURE RELIEF VALVES. INCLUDE RELIEVING CAPACITY AT LEAST AS GREAT AS HEAT INPUT, AND INCLUDE PRESSURE SETTING LESS THAN WORKING-PRESSURE RATING OF DOMESTIC-WATER HEATER. SELECT RELIEF VALVE WITH SENSING ELEMENT THAT EXTENDS INTO STORAGE TANK.
   B. DOMESTIC-WATER EXPANSION TANKS:
      1. DESCRIPTION: STEEL, PRESSURE-RATED TANK CONSTRUCTED WITH WELDED JOINTS AND FACTORY-INSTALLED, BUTYL-RUBBER DIAPHRAGM. INCLUDE AIR PRECHARGE TO MINIMUM SYSTEM-OPERATING PRESSURE AT TANK.
      2. CONSTRUCTION:
         a. TAPPINGS: FACTORY-FABRICATED STEEL, WELDED TO TANK BEFORE TESTING AND LABELING. INCLUDE ASME B1.20.1 PIPE THREAD.
         b. INTERIOR FINISH: COMPLY WITH NSF 61 AND NSF 372 BARRIER MATERIALS FOR POTABLE-WATER TANK LININGS, INCLUDING EXTENDING FINISH INTO AND THROUGH TANK FITTINGS AND OUTLETS.
         c. AIR-CHARGING VALVE: FACTORY INSTALLED.
      3. CAPACITY AND CHARACTERISTICS:
         a. WORKING-PRESSURE RATING: 150 PSIG .
   C. FLOW-CONTROL, ELECTRIC, TANKLESS, DOMESTIC-WATER HEATERS:
      1. STANDARD: UL 499 FOR ELECTRIC, TANKLESS, (DOMESTIC-WATER-HEATER) HEATING APPLIANCE.
      2. CONSTRUCTION: COPPER PIPING OR TUBING COMPLYING WITH NSF 61 AND NSF 372 BARRIER MATERIALS FOR POTABLE WATER, WITHOUT STORAGE CAPACITY.
         a. JACKET: ALUMINUM OR STEEL WITH ENAMELED FINISH OR PLASTIC.
         b. PRESSURE RATING: 150 PSIG
         c. HEATING ELEMENT: RESISTANCE HEATING SYSTEM.
         d. TEMPERATURE CONTROL: FLOW-CONTROL FITTING.
         e. SAFETY CONTROL: HIGH-TEMPERATURE-LIMIT CUTOFF DEVICE OR SYSTEM.
      3. SUPPORT: BRACKET FOR WALL MOUNTING.
8. INSULATION:
   A. ALL INSULATIONS AND ACCESSORIES SHALL HAVE A FIRE HAZARD CLASSIFICATION WITH A FLAME SPREAD RATING OF NOT OVER 25, A FUEL CONTRIBUTION RATING OF NOT OVER 50, AND A SMOKE DEVELOPED RATING OF NOT OVER 50, IN ACCORDANCE WITH NFPA.
   B. PIPE INSULATION - ABOVE GRADE:
      1) THE PIPING INSULATION USED SHALL HAVE A THERMAL CONDUCTIVITY OF 0.27 Btu PER in/hr*sqft*F° OR LESS.
      2) FIBERGLASS INSULATION WITH FACTORY-APPLIED VAPOR BARRIER, ASJ JACKET, FACTORY APPLIED PRESSURE SEALING LONGITUDE LAP JOINT, NO STAPLES, ZESTON PREMOLDED PVC FITTING COVERS. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
      3) FLEXIBLE CLOSED CELL ELASTOMERIC THERMAL INSULATION, UNSLIT OR PRESLIT WITH PRESSURE SENSITIVE ADHESIVE SYSTEM FOR CLOSURE AND VAPOR SEALING, EQUAL TO ARMSTRONG AP ARMAFLEX OR ARMAFLEX 2000.
      4) FOR NON CIRCULATING SYSTEMS, THE FIRST 8 FEET OF INLET AND OUTLET PIPING BETWEEN THE TANK AND THE HEAT TRAP (INCLUDING THE HEAT TRAP) MUST BE INSULATED.
      5) FOR CIRCULATING SYSTEMS, ALL HOT WATER PIPING IN THE CIRCULATION LOOP MUST BE INSULATED AS SPECIFIED BELOW.
      6) INSULATION SCHEDULE:
         a) DOMESTIC COLD WATER 1/2"
         b) DOMESTIC HOT WATER 1" FOR PIPING UP TO 1-1/4"Ø, & 1-1/2" FOR PIPING 1-1/2"Ø AND LARGER
         c) HOT WATER RECIRCULATING 1"
         d) CONDENSATE DRAINS INSIDE BUILDING 1/2"
         e) REFRIGERANT SUCTION 3/4" FOR PIPING UP TO 1-1/4"Ø, & 1" FOR PIPING 1-1/2"Ø AND LARGER
         f) HORIZONTAL STORM PIPE 1/2"
         g) HORIZONTAL STORM OVERFLOW PIPE 1/2"
         h) ROOF DRAINS 1" INSULATION SHALL BE PROVIDED AT ROOF DRAIN BODY AND A MINIMUM OF 10' OF HORIZONTAL PIPING OR A MINIMUM OF 5' IF COMBINATION OF HORIZONTAL AND VERTICAL STORM PIPING DOWNSTREAM OF ROOF DRAIN BODY.

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PROPERTIES

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STATE OF MISSOURI
ERIK B. KNUDSEN
NUMBER P

PLUMBING GENERAL NOTES:

1. INSTALL ALL PIPE, ETC. AS HIGH AS POSSIBLE.
2. COORDINATE ALL WORK WITH OTHER TRADES AND EXISTING CONDITIONS AS REQUIRED TO PROPERLY INSTALL ALL SYSTEMS AS INTENDED, WITHIN THE CONFINES OF THE SPACES AVAILABLE, AND WITHOUT INTERFERENCES.
3. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF FIXTURES.
4. SAWCUT EXISTING FLOOR AS REQUIRED FOR INSTALLATION OF UNDERFLOOR PIPING. PATCH FLOOR TO MATCH EXISTING.
5. NO PIPING SHALL BE ROUTED OVER THE TOP OF ELECTRICAL PANELS.
6. ALL MATERIALS WITHIN PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84.

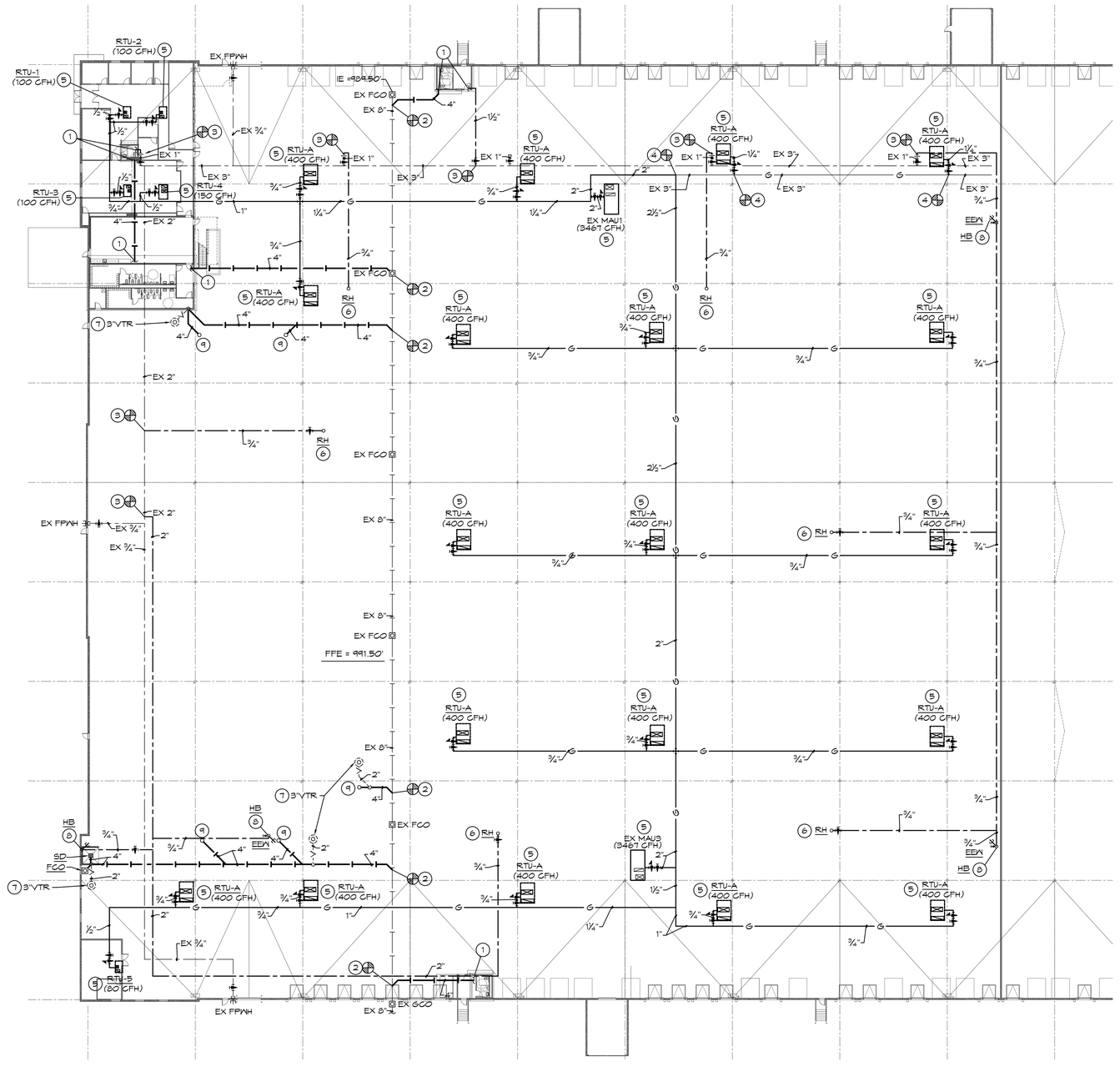
PLUMBING PLAN NOTES:

1. REFER TO ENLARGED PLUMBING PLAN ON SHEET P1.2 FOR CONTINUATION.
2. CONNECT WASTE TO EXISTING SANITARY SEWER AS REQUIRED. VERIFY EXACT LOCATION AND ELEVATION PRIOR TO INSTALLATION OF ANY PIPING.
3. CONNECT WATER TO EXISTING DOMESTIC WATER AS REQUIRED. VERIFY EXACT LOCATION PRIOR TO INSTALLATION OF ANY PIPING.
4. CONNECT GAS TO EXISTING NATURAL GAS AS REQUIRED. VERIFY EXACT SIZE, LOCATION AND PRESSURE PRIOR TO INSTALLATION OF ANY PIPING.
5. CONNECT GAS TO EQUIPMENT AS REQUIRED AND AS DETAILED. GAS PRESSURE REGULATOR SHALL BE ON ROOF.
6. INSTALL ROOF HYDRANT AS REQUIRED.
7. LOCATION OF 3" VTR. VERIFY 10' CLEARANCE FROM ALL OUTDOOR AIR INTAKES. COORDINATE WITH GENERAL CONTRACTOR TO SEAL PENETRATION WEATHERTIGHT.
8. INSTALL HOSE BIBB AS REQUIRED.
9. INSTALL HUB DRAIN AS REQUIRED.

PLUMBING SYMBOLS

- SOIL AND WASTE PIPING BELOW FLOOR/GRADE
- SOIL AND WASTE PIPING ABOVE FLOOR/GRADE
- SANITARY VENT PIPING ABOVE GRADE
- SANITARY VENT PIPING BELOW GRADE
- DOMESTIC COLD WATER PIPING
- DOMESTIC HOT WATER PIPING
- DOMESTIC HOT WATER RECIRCULATION PIPING
- GAS PIPING
- EQUIPMENT DRAIN LINE
- COMPRESSED AIR PIPING BELOW FLOOR
- PIPING TURNING DOWN
- PIPING TURNING UP
- TEE TOP CONNECTION
- UNION
- BACKFLOW PREVENTER
- FD — FLOOR DRAIN
- FCO — FLOOR CLEAN OUT
- WCO — WALL CLEAN OUT
- GCO — GRADE CLEAN OUT
- VALVE
- BALANCING VALVE
- SOLENOID VALVE
- PRESSURE REGULATOR
- CHECK VALVE
- CONNECT TO EXISTING
- I.E. — INVERT ELEVATION OF PIPE
- MATCH MARKS ON PLUMBING RISER DIAGRAM
- CONTROL WIRING
- REFRIGERANT PIPING
- CHECK VALVE
- THERMOMETER
- PRESSURE GUAGE
- TEMPERATURE AND PRESSURE RELIEF VALVE
- PETE'S PLUG
- Y STRAINER
- VACUUM RELIEF VALVE

ALL STORM PIPING IS EXISTING TO REMAIN.



NORTH

PARTIAL PLUMBING FLOOR PLAN
SCALE: 1" = 30'-0" FFE = 991.50'

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SCANNELL PROPERTIES

8/31/2022

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

LEE'S SUMMIT LOGISTICS BUILDING A LOT 1

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

PERMIT SET	08.31.22

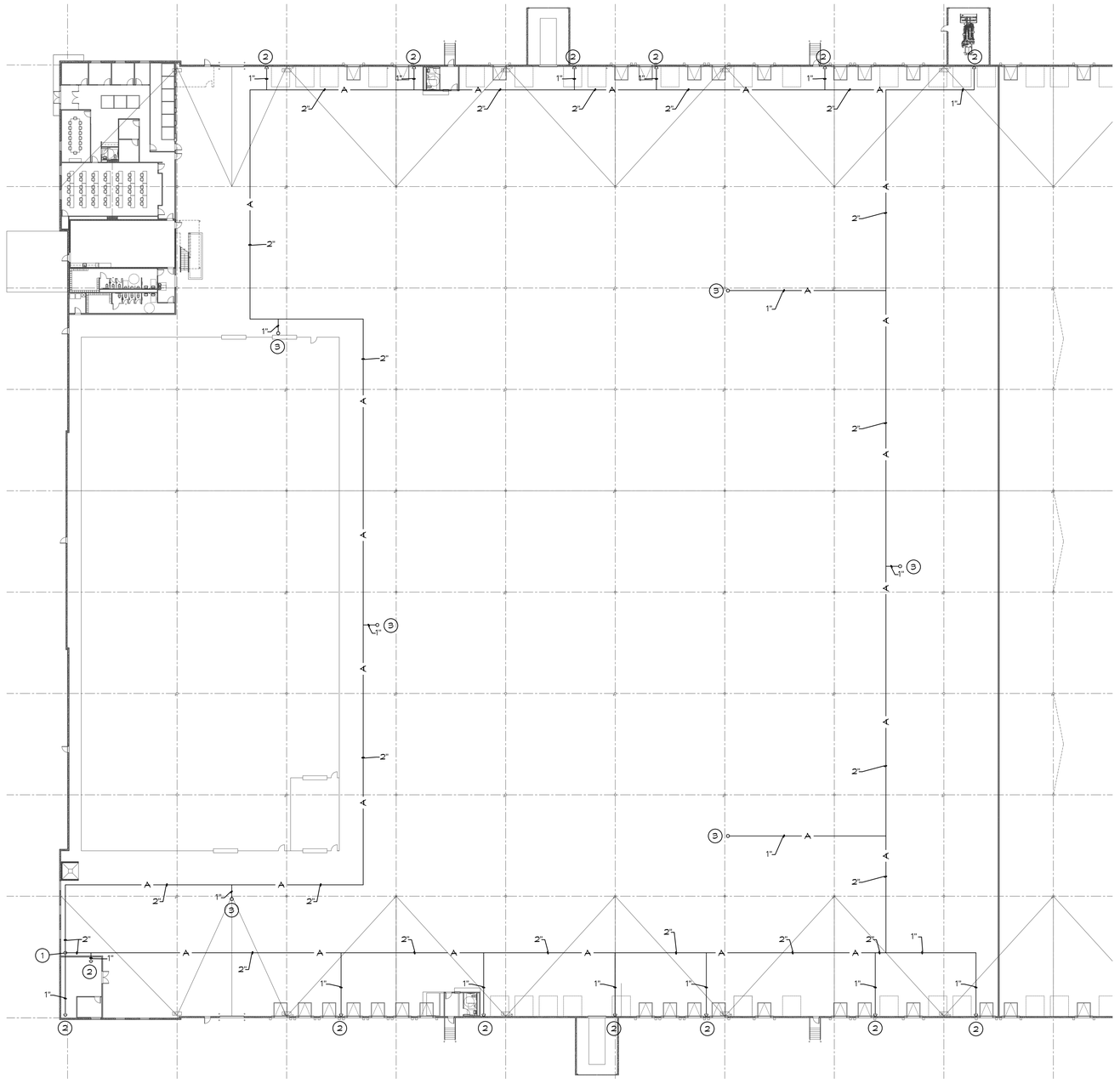
210300

PLUMBING PLAN

P1.0

PLUMBING PLAN NOTES:

1. AIR PIPE WITH SHUT OFF VALVE DOWN TO AIR COMPRESSOR AND REGULATOR FURNISHED BY OTHERS. VERIFY EXACT LOCATION OF AIR CONNECTION AND COMPRESSED AIR REQUIREMENTS WITH MANUFACTURER'S SPECIFICATIONS.
2. AIR PIPE WITH SHUT OFF VALVE 4'-0" AFF. SUPPORT AS REQUIRED.
3. AIR PIPE WITH SHUT OFF VALVE ABOVE ROOF. SUPPORT AS REQUIRED.



NORTH

PARTIAL COMPRESSED AIR FLOOR PLAN

SCALE: 1" = 30'-0" FFE = 991.50'

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COMPRESSED AIR PLAN

P1.1

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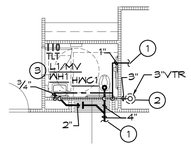
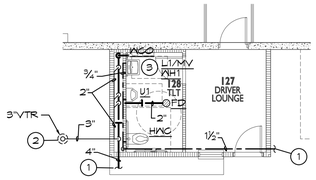


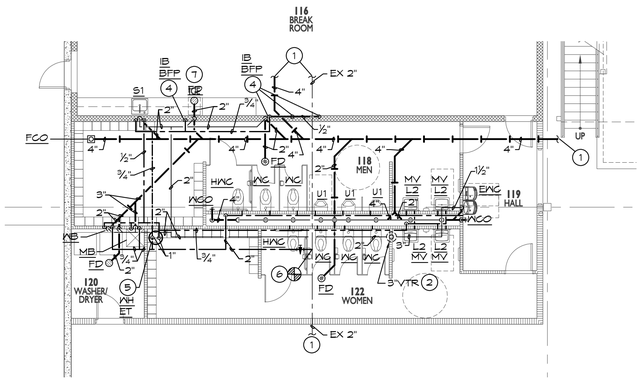


ENLARGED PLUMBING FLOOR PLAN

NORTH

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

FFE = 991.50'

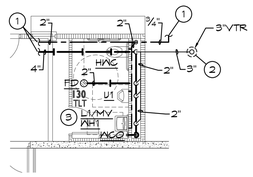


ENLARGED PLUMBING FLOOR PLAN

NORTH

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

FFE = 991.50'



ENLARGED PLUMBING FLOOR PLAN

NORTH

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

FFE = 991.50'

PLUMBING PLAN NOTES:

1. REFER TO PARTIAL PLUMBING PLAN ON P1.0 FOR CONTINUATION.
2. LOCATION OF 3" VTR. VERIFY 10' CLEARANCE FROM ALL OUTDOOR AIR INTAKES. SEAL PENETRATION WEATHERTIGHT.
3. INSTANTANEOUS WATER HEATER LOCATED BELOW SINK/LAV. SUPPORT FROM WALL PER THE MANUFACTURES REQUIREMENTS.
4. PROVIDE BFP AND CONNECT ON TO ICE MAKER AND COFFEE MAKER AS REQUIRED.
5. SUPPORT WATER HEATER FROM STRUCTURE ABOVE CEILING. PROVIDE GALVANIZED DRAIN PAN UNDER WATER HEATER WITH DRAIN. ROUTE INDIRECT DRAIN PIPING TO MOP BASIN WITH AIR GAP.
6. CONNECT WATER TO EXISTING DOMESTIC WATER AS REQUIRED. VERIFY EXACT LOCATION PRIOR TO INSTALLATION OF ANY PIPING.
7. PROVIDE INDIRECT DRAIN FROM ICE MAKER TO FLOOR DRAIN WITH AIR GAP.

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ENLARGED PLUMBING
PLANS

P1.2

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PIPE HANGER SCHEDULE

PIPE MATERIAL	MAXIMUM HANGER SPACING	HANGER ROD DIAMETER
ABS (All sizes)	4'	3/8"
PVC (All Sizes)	4'	3/8"
CPVC, 1 inch and smaller	3'	1/2"
CPVC, 1-1/4 inches and larger	4'	1/2"
Cast Iron (All Sizes)	5'	5/8"
Cast Iron (All Sizes) with 10 foot length of pipe	10'	5/8"
Copper Tube, 1-1/4 inches and smaller	6'	1/2"
Copper Tube, 1-1/2 inches and larger	10'	1/2"
Steel, 3 inches and smaller	12'	1/2"
Steel, 4 inches and larger	12'	5/8"
Pex, 1" and below without support channel	32"	3/8"
Pex, 1-1/4" and above without support channel	48"	3/8"
Pex ¾" and below with support channel	6'	3/8"
Pex 1" and above with support channel	8'	3/8"

PEX PIPING REQUIREMENTS

PIPE SIZES GIVEN ON THE DRAWINGS ARE NOMINAL COPPER PIPE SIZE. IF PEX PIPING IS USED, INCREASE PEX PIPING ONE SIZE ABOVE LISTED SIZES AS REQUIRED TO EQUAL OR EXCEED COPPER PIPE INSIDE DIAMETER.

PLUMBING FIXTURE SCHEDULE (OR EQUAL):

HAC — WATER CLOSET (HANDICAPPED): SAME AS WC, EXCEPT 18" HIGH BOWL FOR HANDICAPPED.

WC — WATER CLOSET: AMERICAN STANDARD #2257.001, VITREOUS CHINA, WALL HUNG, ELONGATED BOWL, SIPHON JET ACTION, SLOAN #111 FLUSH VALVE, 1.6 GAL/FLUSH, CENTOCO #5T5CC-001 OPEN FRONT ELONGATED SEAT, FLOOR MOUNTED FIXTURE SUPPORT (HEAVY DUTY 500 LB CAPACITY).

HAC1 — WATER CLOSET (HANDICAPPED): AMERICAN STANDARD, #3043.001 "MADERA ADA", VITREOUS CHINA, FLOOR MOUNTED, FLOOR OUTLET, 17-1/2" HIGH ELONGATED BOWL, SIPHON-JET ACTION, SLOAN "ROYAL" #111 FLUSH VALVE, 1.6 GAL/FLUSH, CENTOCO #5T5CC-001 OPEN FRONT ELONGATED SEAT WITH CHECK HINGE. HANDLE ON WIDE SIDE OF FIXTURE.

UI — URINAL, WALL HUNG: AMERICAN STANDARD, #6561.017 "TRIMBROOK", VITREOUS CHINA, 0.5 GPM WASH OUT ACTION, WALL HUNG URINAL WITH 3/4" TOP SPUD, SLOAN #186-1.0 FLUSH VALVE, FLOOR MOUNTED FIXTURE SUPPORT. SET RIM HEIGHT PER ARCHITECTURAL DRAWINGS.

L1 — HANDICAP LAVATORY, WALL HUNG: AMERICAN STANDARD #03553012 "LUCERN", 20"x 18", VITREOUS CHINA, FRONT OVERFLOW, DELTA #B501LF FAUCET WITH SINGLE METAL LEVER FAUCET, OFFSET GRID ELBOW DRAIN AND 1-1/4" TAILPIECE, CHROME PLATED CAST BRASS P-TRAP WITH CLEANOUT (MOUNTED PARALLEL WITH WALL), CHROME PLATED LOOSE KEY ANGLE STOPS AND RISERS, FLOOR MOUNTED CONCEALED ARM LAVATORY SUPPORT, INSULATE EXPOSED DRAIN, WATER SUPPLIES, AND VALVES WITH PROWRAP SEAMLESS MOLDED CLOSED CELL VINYL INSULATION.

L2 — HANDICAP LAVATORY, COUNTERTOP: AMERICAN STANDARD, #0476.028 "AQUALYN", VITREOUS CHINA, 20"x 17" OVAL BASIN, DELTA #B501LF FAUCET WITH SINGLE METAL LEVER HANDLE, OFFSET GRID DRAIN WITH 1-1/4" TAILPIECE, CHROME PLATED P-TRAP (MOUNTED PARALLEL WITH WALL), CHROME PLATED ANGLE STOPS AND RISERS, INSULATE EXPOSED DRAIN, WATER SUPPLIES, AND VALVES WITH PROWRAP SEAMLESS MOLDED CLOSED CELL VINYL INSULATION.

S1 — SINK:ELKAY, #LRAD-2222, 19"x16"x 6-1/2" DEEP BOWL,21-3/8"x 21-3/8" CUT-OUT, ADA COMPLIANT, SINGLE COMPARTMENT, SELF-RIMMING STAINLESS STEEL SINK WITH SATIN FINISH AND SOUND DAMPENING UNDERCOATING, #LK-1000GR FAUCET, SWING SPOUT, AERATOR, SINGLE LEVER HANDLE, CHROME PLATED CAST BRASS P-TRAP WITH CLEANOUT, CHROME PLATED ANGLE STOPS AND RISERS, IN-SINK-ERATOR #BADGER 5 DISPOSAL, 1/2 HP, 120 VOLT.

MB — MOP BASIN: FIAT, #MSB-2424, MOLDED STONE MOP BASIN, 2" DRAIN, 24"x 24" BASIN, VINYL BUMPER GUARD, STERN WILLIAMS #T-10-VB FAUCET, SPRING CHECKS, VACUUM BREAKER, INTEGRAL STOPS, WALL BRACE & PAIL HOOK, WALL BRACKET WITH 30" HOSE.

EWC — ELECTRIC WATER COOLER: OASIS, #PS8ACSL, BARRIER FREE TWO-STATION WATER COOLER, 8.0 GPH, 50 DEGREES F WATER WITH 90 DEGREES F AIR TEMPERATURE, 120 VOLT, COLOR TO BE SELECTED BY ARCHITECT AFTER AWARD OF CONTRACT, FRONT AND SIDE ANTIMICROBIAL PUSH PADS, ANITMICROBIAL FLEX BUBBLERS, CHROME PLATED CAST BRASS P-TRAP WITH CLEANOUT, CHROME PLATED LOOSE KEY ANGLE STOP, FLOOR MOUNTED CARRIER AND CANE APRON.

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

EEA — PORTABLE EYE WASH STATION: BRADLEY #S19-921, SELF-CONTAINED. LOCATED AT EACH CHARGING STATION.

HB — HOSE BIBB: PRIER, #P-164, 3/4" HOSE NOZZLE OUTLET, SATIN NICKEL PLATED BODY FINISH, HANDWHEEL OPERATED, INTEGRAL VACUUM BREAKER.

IB — ICE BOX: SIOUX CHIEF #696-1000, ICE BOX WITH 1/2" INLET AND CONNECTION AND 1/4-TURN SHUT OFF VALVE.

WH1 — TANKLESS HOT WATER HEATER: STIEBEL ELTRON MINI 3, 120 VOLT, 3.0 KW.

WH — HOT WATER HEATER: AO SMITH #DEL-40, 40 GALLON STORAGE, 208 VOLT/1 PHASE, (2) 6000 WATT ELEMENT, NON-SIMULTANEOUS, ASME TEMPERATURE AND PRESSURE RELIEF VALVE.

ET — HOT WATER EXPANSION TANK: AMTROL, #ST-5, 2 GALLON EXPANSION TANK WITH DIAPHRAGM.

MV — MIXING VALVE: WATTS, #LFUSG-B, THERMOSTATIC CONTROLLED MIXING VALVE, LEAD FREE BRONZE BODY, LOCKED TEMPERATURE ADJUSTMENT CAP (VANDAL RESISTANT), COPPER ENCAPSULATED THERMOSTAT ASSEMBLY WITH BRASS SHUTTLE, STAINLESSSTEEL SPRINGS, INTEGRAL CHECK VALVES ON HOT AND COLD INLETS. (SET TO 110°F). ASSE 1070 LISTED.

BFP — BACKFLOW PREVENTOR: WATTS #SD-3, DUAL CHECK VALVE WITH ATMOSPHERIC PORT & STRAINER FOR CARBONATED BEVERAGE MACHINES

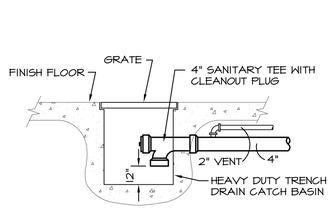
RH — FREEZELESS ROOF HYDRANT: WOODFORD #RHY2-MS, HEAVY-DUTY CAST IRON MOUNTING SYSTEM, AUTOMATICALLY DRAIN WHEN SHUT OFF, ASSE 1052 DOUBLE CHECK BACKFLOW PREVENTER.

WB — WASHER BOX : SIOUX CHIEFS "OXBOX" 696 SERIES WASHER OUTLET BOX WITH BUILT IN WATER HAMMER ARRESTER WITH 1-1/2" DRAIN OUTLET AND TAILPIECE, AND 1/2" HOT & COLD WATER CONNECTION.

SD — SCRUBBER DRAIN: RELIABLE CONCRETE 3030/2158SC CATCH BASIN REINFORCED, CLAY & BAILEY 2158BG 1354 GRATE.

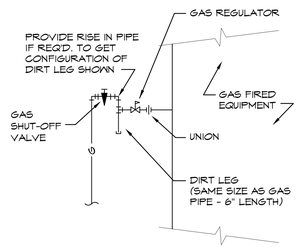
WHA — WATER HAMMER ARRESTOR: JR SMITH 'HYDROTROL' #5000 LEAD-FREE WATER HAMMER ARRESTOR, SIZED AS PER MANUFACTURER'S RECOMMENDATIONS.

FCO/NCO — VINYL TILE FLOOR: JR SMITH #4140, OR EQUAL.
QUARRY TILE FLOOR: JR SMITH #4200, OR EQUAL.
CARPETED FLOOR: JR SMITH #4020-Y, OR EQUAL.
UNFINISHED FLOOR: JR SMITH #4020, OR EQUAL.



CATCH BASIN DETAIL

SCALE: NONE



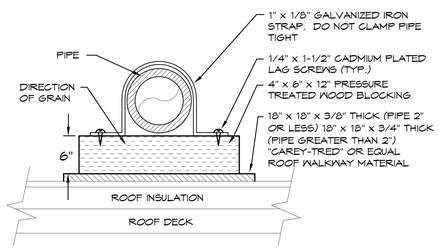
GAS PRESSURE REGULATORS FOR GAS FIRED EQUIPMENT SHALL BE SENSUS #243-8, 5 PSI INLET / 7" WC OUTLET PRESSURE WITH THE ORIFICE & SPRING SIZE AS RECOMMENDED BY THE MANUFACTURER.

PROVIDE GAS REGULATOR FOR EVERY PIECE OF GAS FIRED EQUIPMENT. VENT ON REGULATOR SHALL BE VENTED WITH FULL SIZE PIPE TO EXTERIOR OF BLDG. FLASH BLDG PENETRATION WEATHER TIGHT.

GAS CONNECTION DETAIL

SCALE: NONE

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



ROOF PIPE SUPPORT DETAIL

SCALE: NONE

PLUMBING DRAINAGE CALCULATIONS

FIXTURE	QUANTITY	FU	TOTAL FU
WATER CLOSETS	10	4	40
URINAL (1.0 GPF)	5	2	10
LAVATORIES	7	1	7
SINKS	1	2	2
FLOOR DRAIN	7	2	14
FLOOR SINK	5	2	10
SCRUBBER DRAIN	1	2	2
WASHER BOX	1	3	3
MOP SINK	1	2	2
ELECTRIC WATER COOLER	1	.5	.5
TOTAL			90.5 FU

VENT MAINS - 3"
WASTE MAIN - 4"

PLUMBING FIXTURE WATER COUNT

FIXTURE	QUANTITY	CW FU	CW TOTAL FU	HW FU	HW TOTAL FU	COMBINED FU	COMBINED TOTAL FU
WATER CLOSETS	10	10	100	-	-	-	100
URINAL	5	5	25	-	-	-	25
LAVATORIES	7	1.5	10.5	1.5	10.5	2	14
SINKS	1	2.25	2.25	2.25	2.25	3	3
WATER BOXES	4	.25	1	-	-	-	1
CLOTHES WASHER	1	2.25	2.25	2.25	2.25	3	3
MOP SINK	1	2.25	2.25	2.25	2.25	3	3
WATER COOLER	1	.25	.25	-	-	-	.25
			143.5 FU		17.25 FU		149.25 FU

COLD WATER MAIN - 2"
HOT WATER MAIN - 1"

PLUMBING FIXTURE BRANCH PIPING SCHEDULE

FIXTURE	WASTE	VENT	CW	HW
WATER CLOSET (FLUSH VALVE)	4"	2"	1"	" "
URINAL	2"	1-1/2"	3/4"	" "
LAVATORY	1-1/4"	1-1/4"	1/2"	1/2"
SINK	1-1/2"	1-1/2"	1/2"	1/2"
FLOOR DRAIN	2"	2"	" "	" "
MOP BASIN	2"	2"	1/2"	1/2"
ELECTRIC WATER COOLER (BI-LEVEL)	1-1/2"	1-1/2"	1/2"	" "

NOTE: INDIVIDUAL VENTS FOR FIXTURES ON PLANS AND RISER DIAGRAMS HAVE BEEN INCREASED WHERE HORIZONTAL VENT LENGTH IS IN EXCESS OF THE MAXIMUM DISTANCE INDICATED BY THE CODE.

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

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

BC PROJECT #22208
MISSOURI PE COA #2009003629

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

SCANNELL PROPERTIES

8/31/2022

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

LEE'S SUMMIT LOGISTICS BUILDING A LOT 1

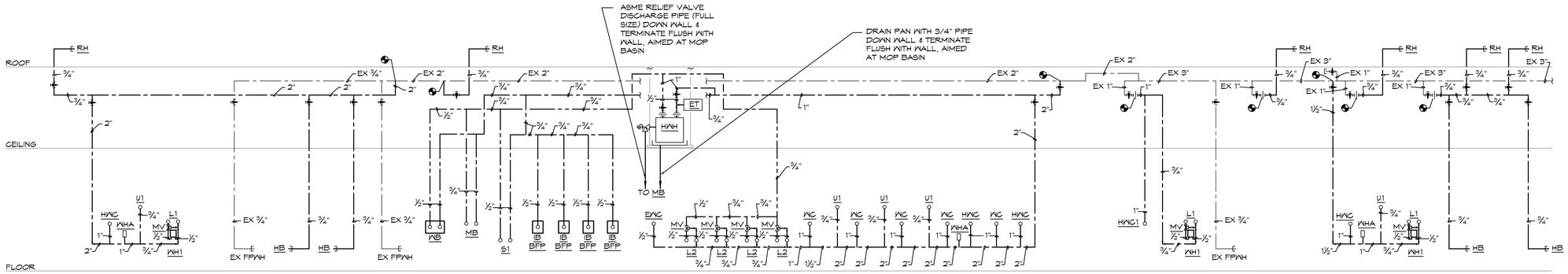
NW CORNER OF
NE TUDOR RD & MAIN ST
LEE'S SUMMIT, MO 64086

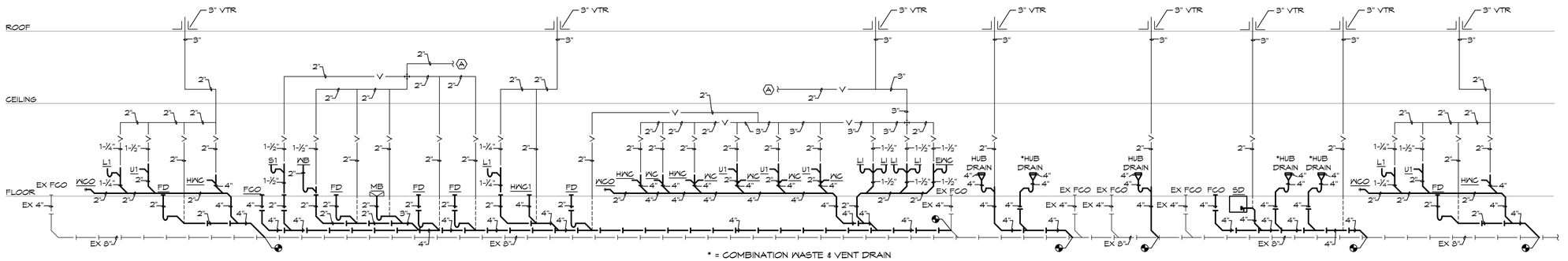
PERMIT SET 08.31.22

210300

PLUMBING SCHEDULES AND DETAILS

P2.0





PLUMBING RISER DIAGRAMS

SCALE: NONE

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SCANNELL
PROPERTIES

8/31/2022

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

LEE'S SUMMIT LOGISTICS BUILDING A LOT 1

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

PERMIT SET	08.31.22

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PLUMBING RISERS

P2.1

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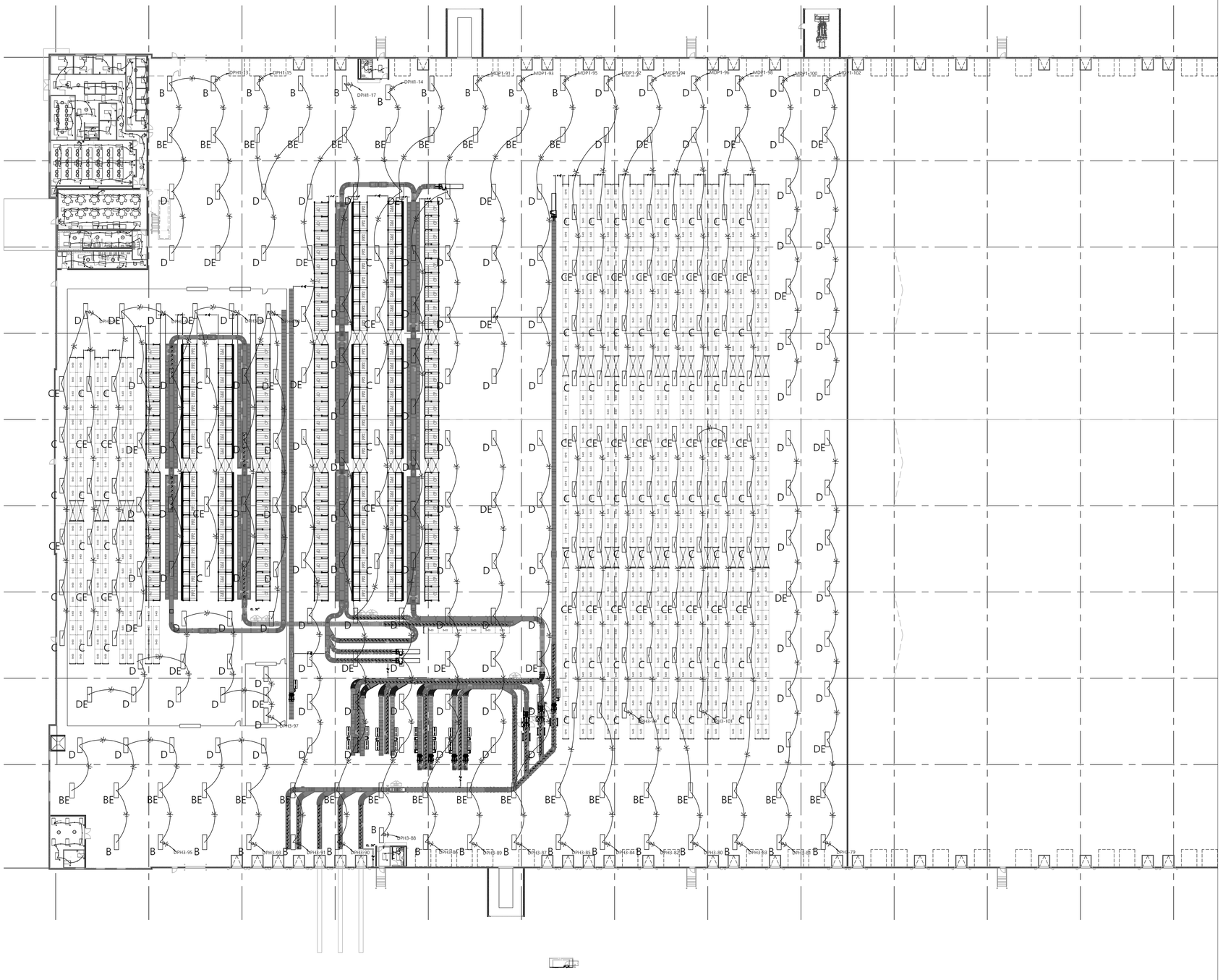

1 Warehouse lighting Plan

scale: 1"=30'

north

HERITAGE ELECTRIC, L.L.C.
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SCANNELL PROPERTIES

CERTIFICATION

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS
BUILDING A LOT 1

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

STATE OF MISSOURI
JOHN WILLIAM CARROLL
NUMBER E-14378
PROFESSIONAL ENGINEER
8/31/22

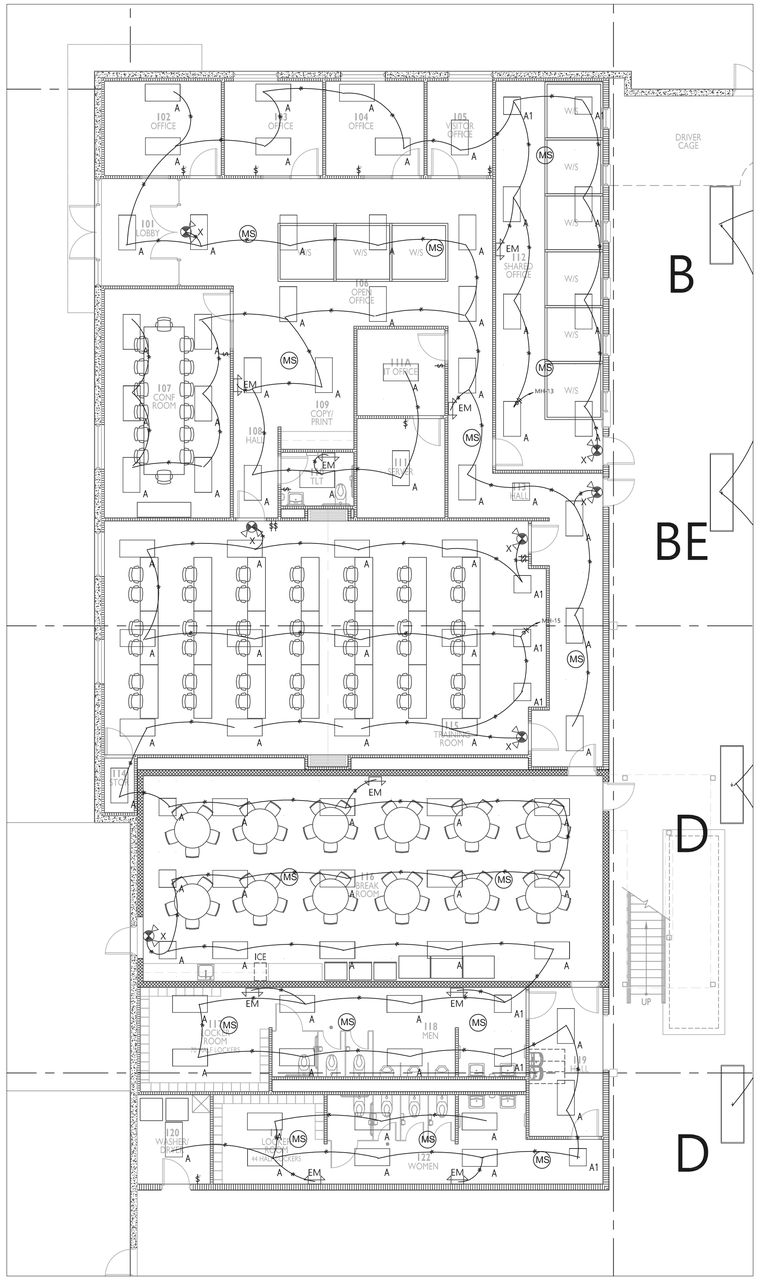
ISSUE DATES

PERMIT SET	02.18.22

210300

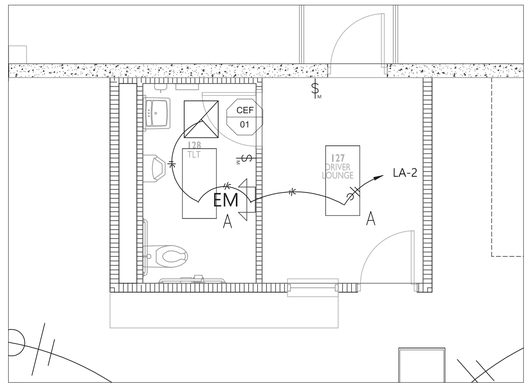
WAREHOUSE LIGHTING

EI.0



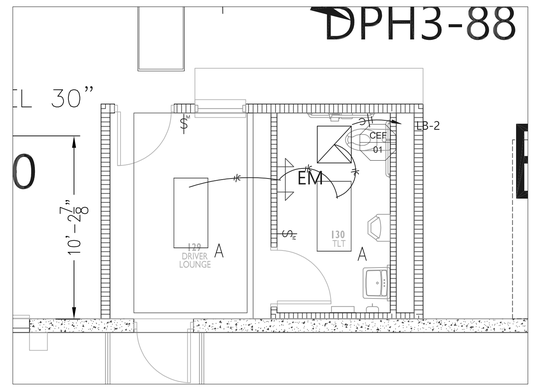
1 Office lighting Plan
scale: 1/8"=1'

north



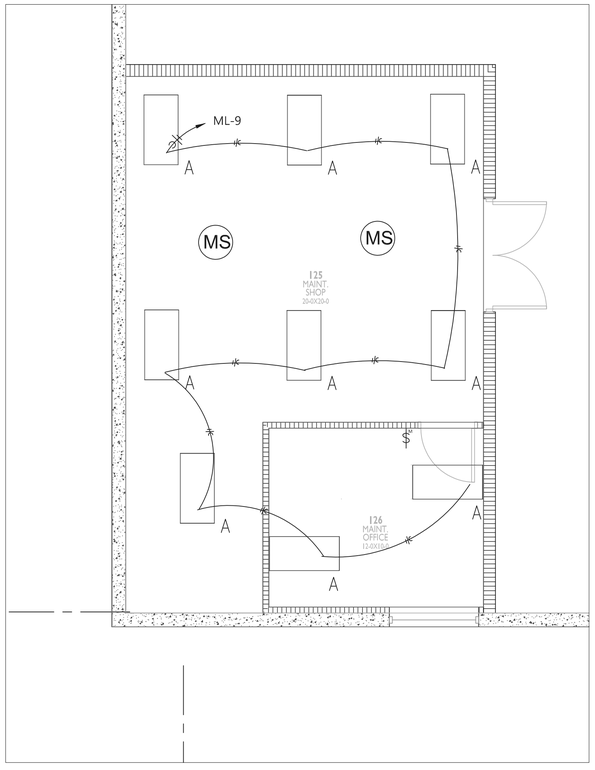
2 Drivers Office lighting Plan
scale: 1/4"=1'

north



3 Drivers Office lighting Plan
scale: 1/4"=1'

north



4 Maintenance Office lighting Plan
scale: 1/4"=1'

north

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SCANNELL PROPERTIES

CERTIFICATION

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING A LOT 1

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

STATE OF MISSOURI
JOHN WILLIAM CARR
NUMBER E-14378
PROFESSIONAL ENGINEER
8/31/22

ISSUE DATES

PERMIT SET	02.18.22

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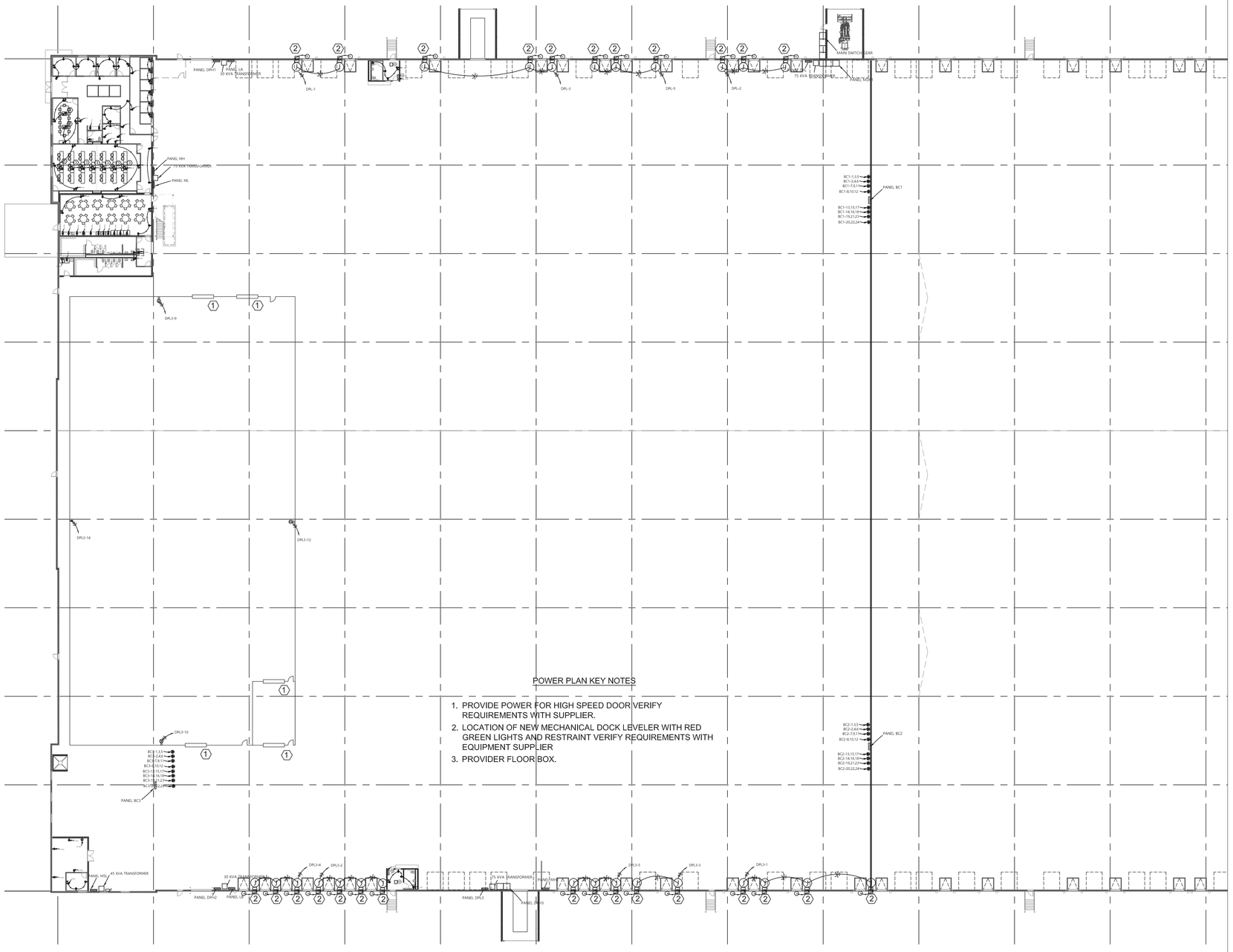
OFFICE LIGHTING

E1.1



POWER PLAN KEY NOTES

1. PROVIDE POWER FOR HIGH SPEED DOOR VERIFY REQUIREMENTS WITH SUPPLIER.
2. LOCATION OF NEW MECHANICAL DOCK LEVELER WITH RED GREEN LIGHTS AND RESTRAINT VERIFY REQUIREMENTS WITH EQUIPMENT SUPPLIER
3. PROVIDER FLOOR BOX.

1 Warehouse Power Plan
scale: 1"=30'

north

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SCANNELL PROPERTIES

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BUILDING A LOT 1

NW CORNER OF
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STATE OF MISSOURI
JOHN WILLIAM CARPENTER JR
NUMBER E-14378
PROFESSIONAL ENGINEER
8/31/22

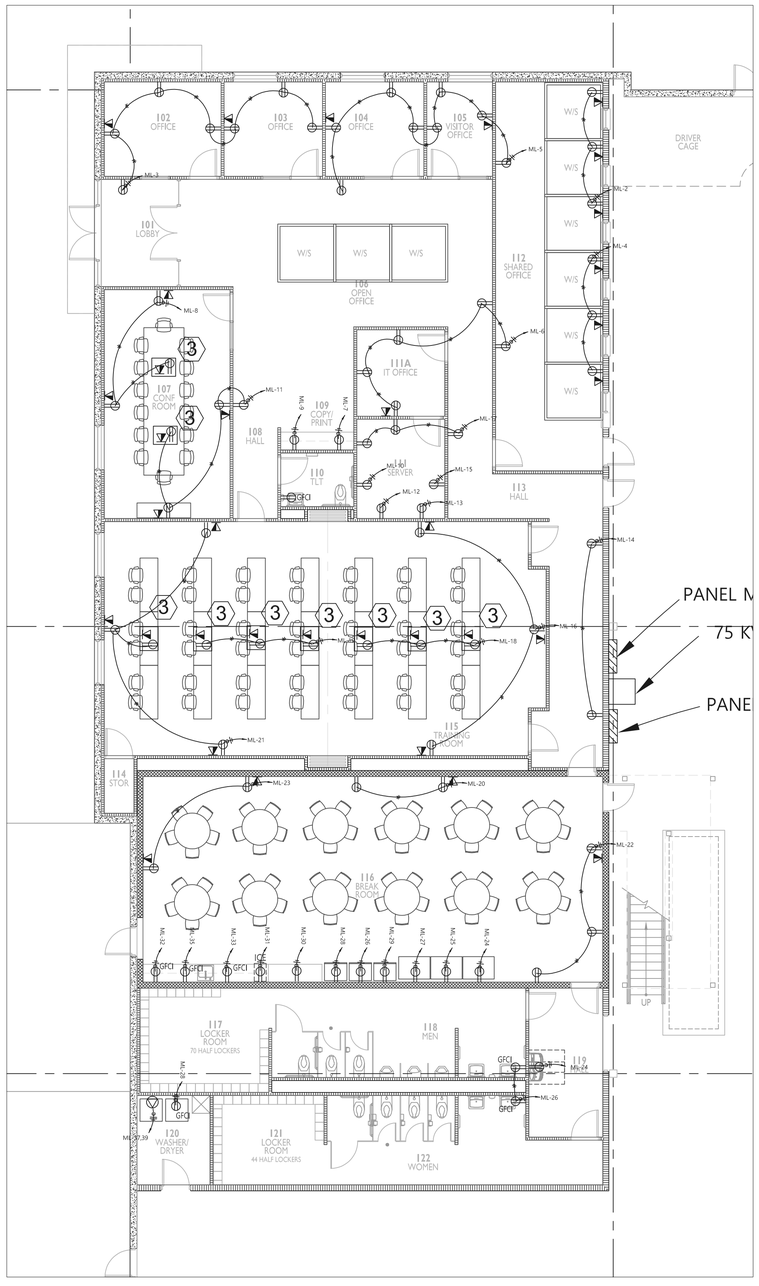
ISSUE DATES

PERMIT SET	02.18.22

210300

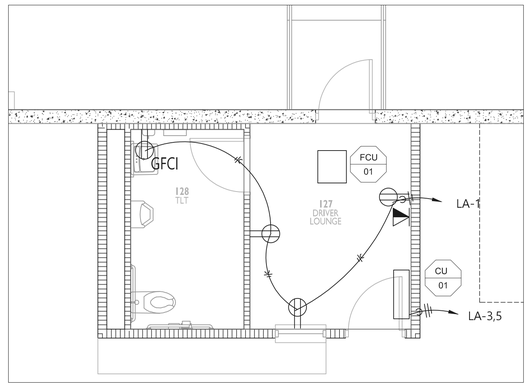
WAREHOUSE POWER

E2.0



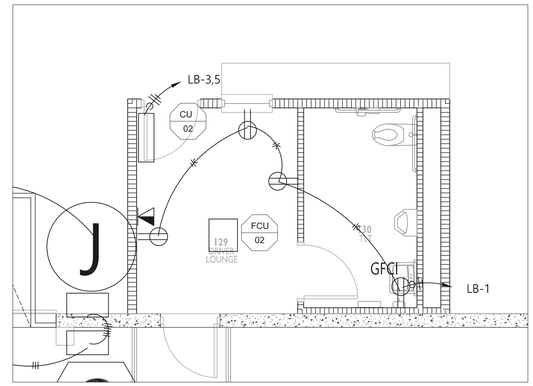
1 Office Power Plan
scale: 1/8"=1'

north



2 Drivers Office Power Plan
scale: 1/4"=1'

north



3 Drivers Office Power Plan
scale: 1/4"=1'

north

4 Maintenance Office Power Plan
scale: 1/4"=1'

north

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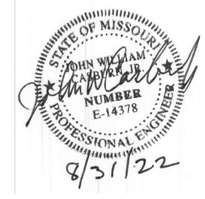
SCANNELL PROPERTIES

CERTIFICATION

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING A LOT 1

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



ISSUE DATES

PERMIT SET	02.18.22

210300

OFFICE POWER

E2.1

HERITAGE ELECTRIC, L.L.C.
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Olathe, Kansas
phone (913) 747 0528
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HERITAGE ELECTRIC

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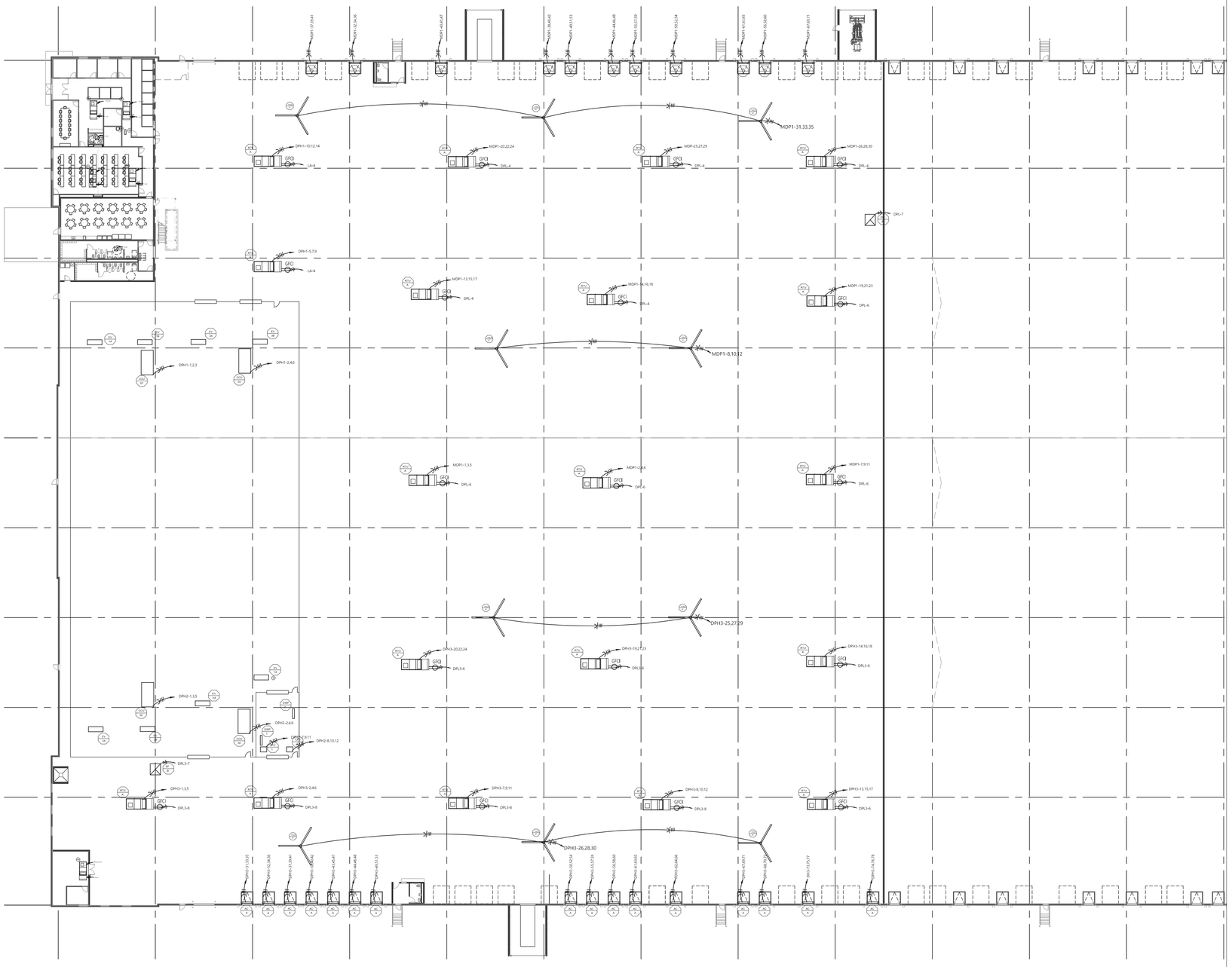

1 Warehouse HVAC Plan

scale: 1"=30'

north

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PROPERTIES

CERTIFICATION

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HERITAGE ELECTRIC

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS
BUILDING A LOT 1

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

STATE OF MISSOURI
JOHN WILLIAM CARPENTER
NUMBER E-14378
PROFESSIONAL ENGINEER
8/31/22

ISSUE DATES

PERMIT SET	02.18.22

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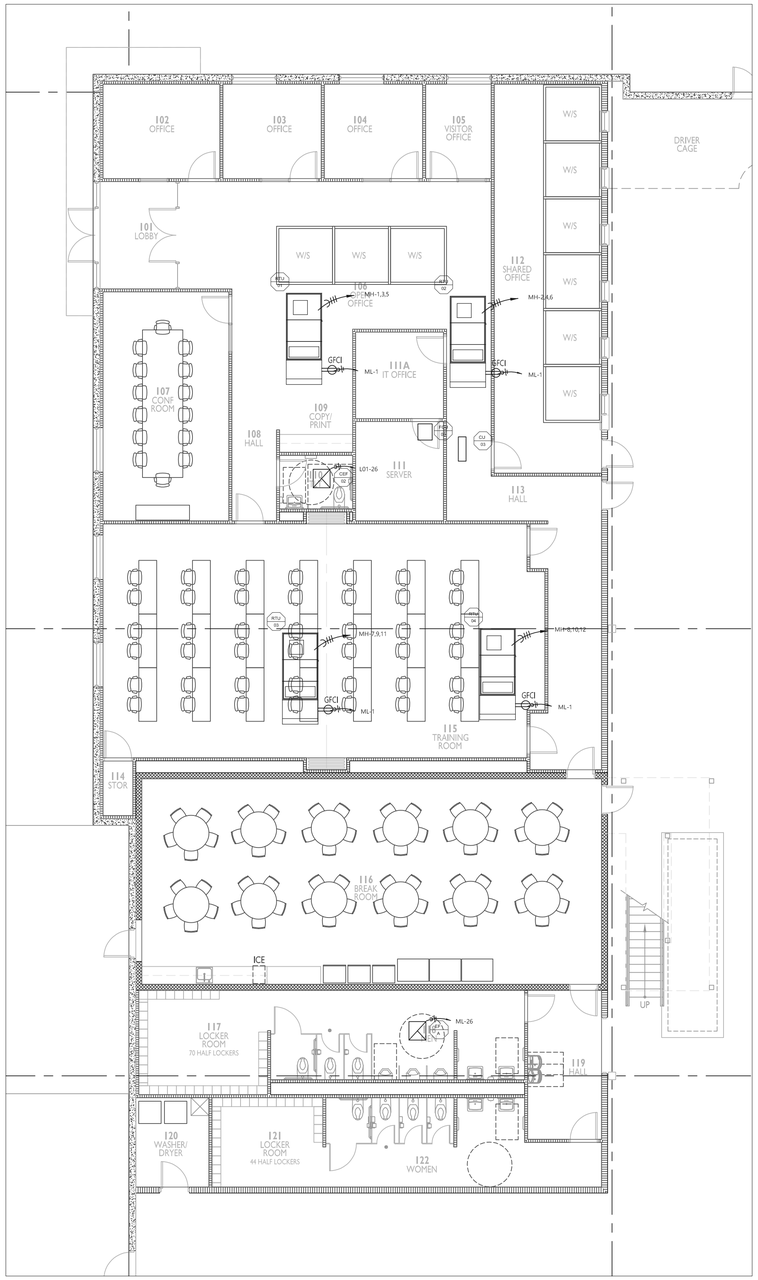
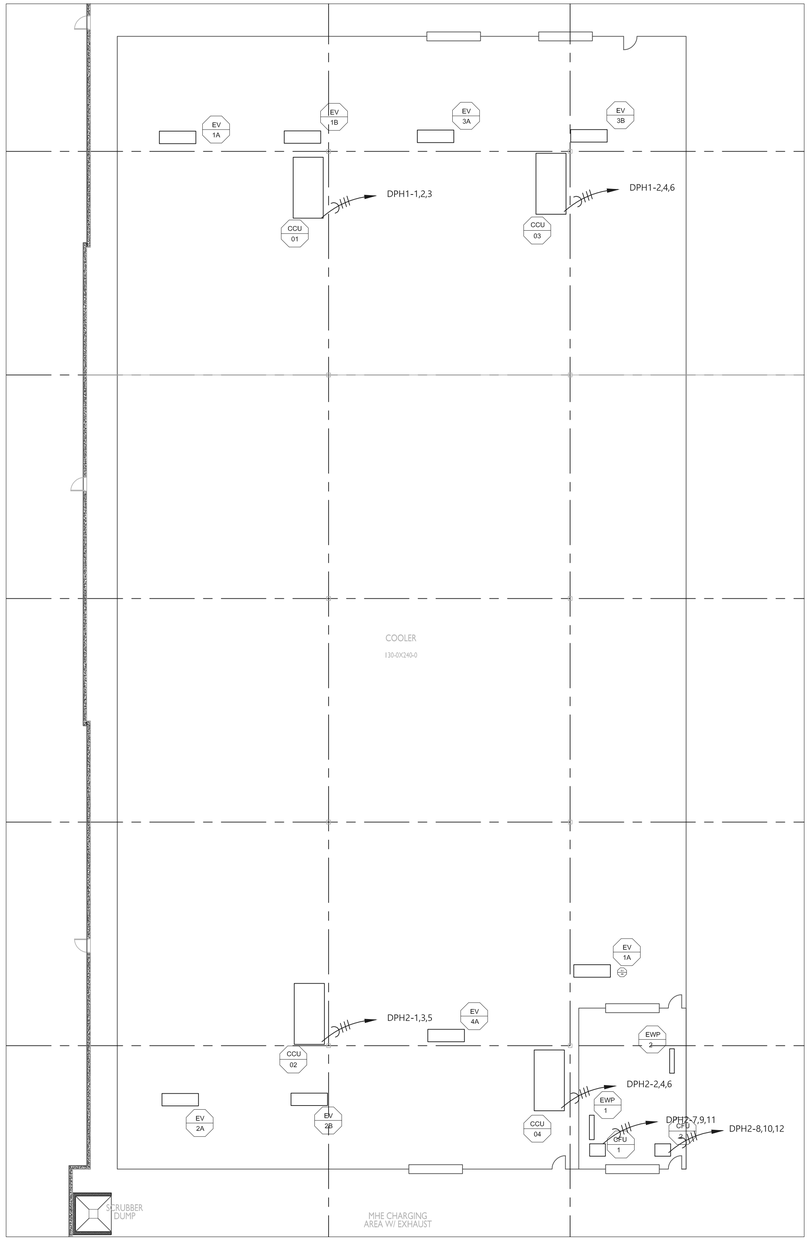
HVAC POWER

E3.0



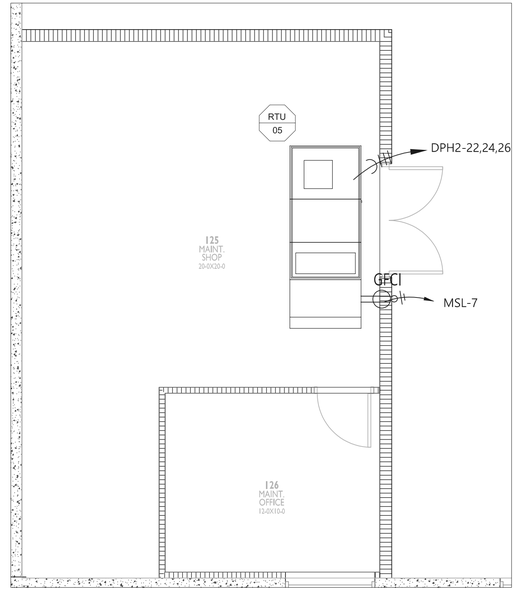
1 Office HVAC Power
scale: 1/8"=1'

north



2 Cooler HVAC Power
scale: 1/8"=1'

north



3 Maintenance Office HVAC Power
scale: 1/4"=1'

north

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SCANNELL PROPERTIES

CERTIFICATION

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING A LOT 1

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

STATE OF MISSOURI
JOHN WILLIAM CARPENTER
NUMBER E-14378
PROFESSIONAL ENGINEER
8/31/22

ISSUE DATES

PERMIT SET	02.18.22

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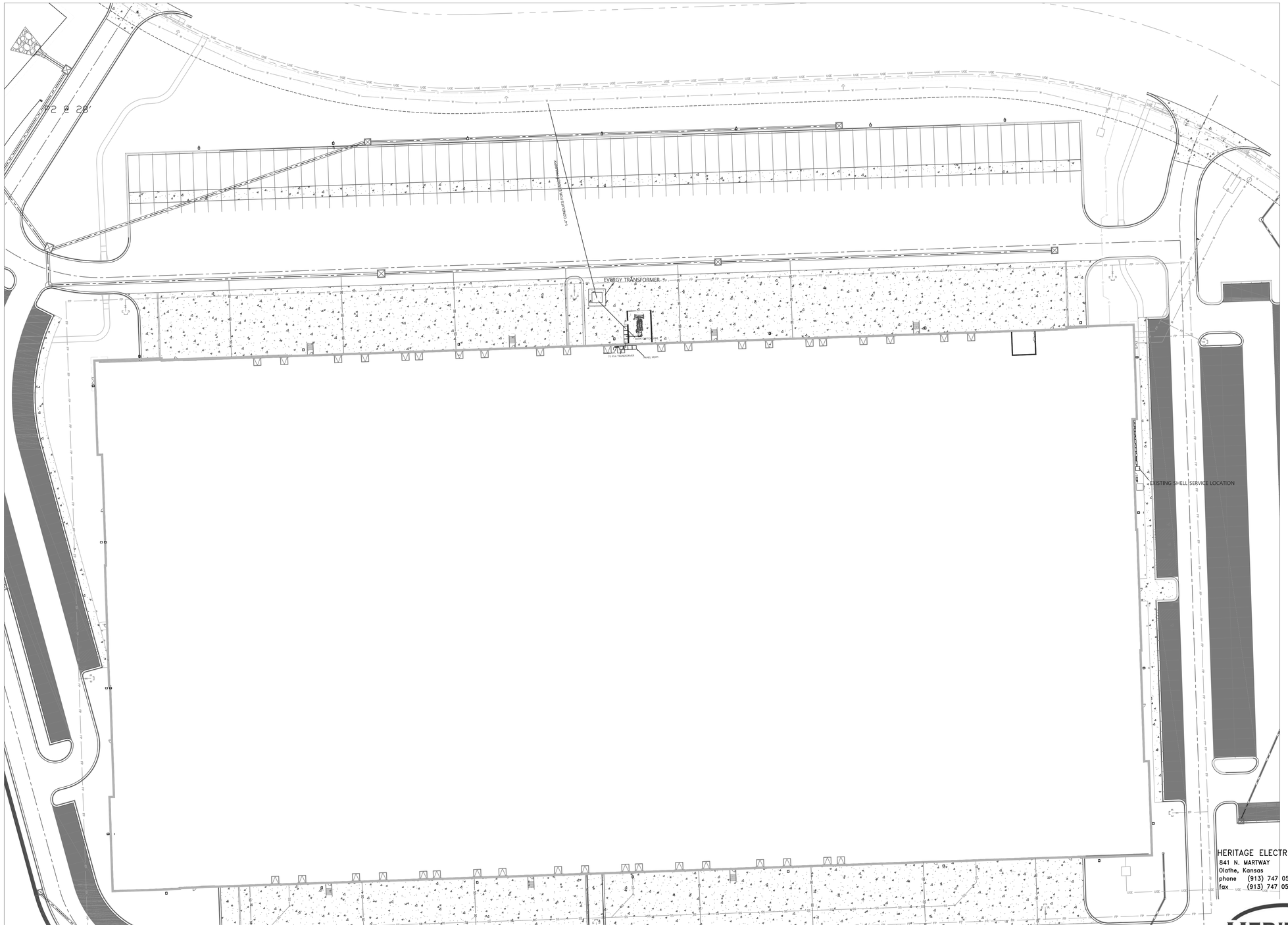
OFFICE HVAC

E3.1



1 Site
scale: N.T.S

north

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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

STATE OF MISSOURI
JOHN WILLIAM CAMBERATO JR
NUMBER E-14378
PROFESSIONAL ENGINEER
8/31/22

ISSUE DATES

PERMIT SET	02.18.22

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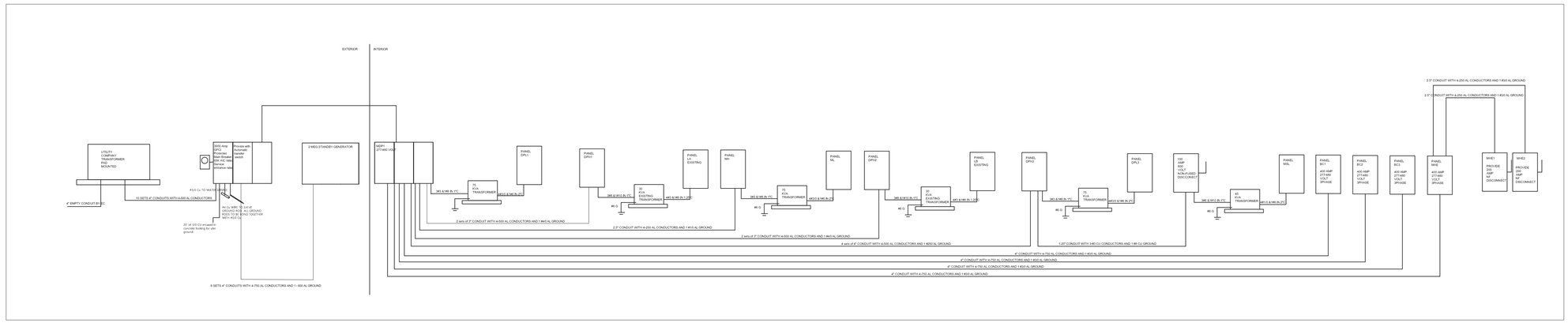
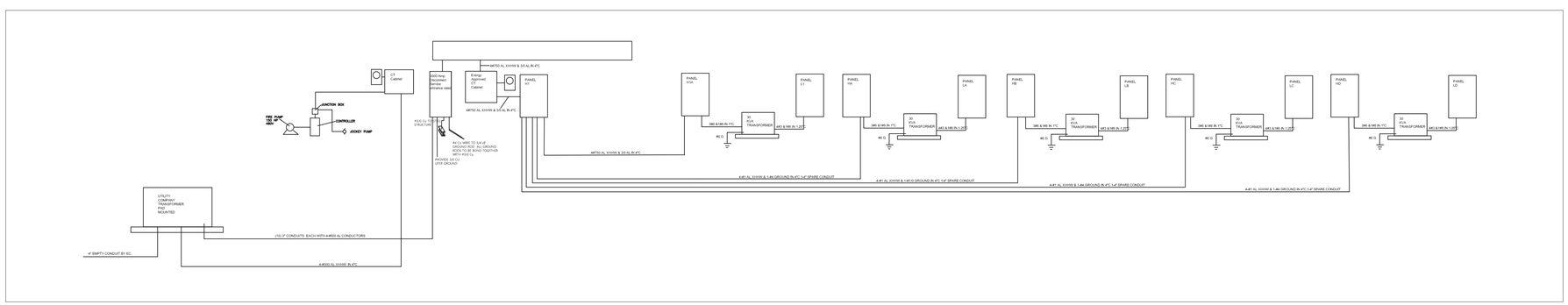
Site

E4.0



1 Riser
scale: N.T.S

north



1 Existing Shell Riser Diagram
scale: N.T.S

north

LIGHT FIXTURE SCHEDULE						
TYPE	MANUFACTURER	CATALOG NO.	LAMPS	MOUNTING	VOLTS	REMARKS
A	Columbia Lighting	CBT24-LS40	LED	CEILING	277	OR EQUAL
A1	Columbia Lighting	CBT22-LS40	LED	CEILING	277	OR EQUAL
B	Columbia Lighting	PEL2-40MV-EDU	LED	CEILING	277	PROVIDE WITH INTEGRAL OCCUPANCY SENSOR
BE	Columbia Lighting	PEL2-40MV-EDU	LED	CEILING	277	SAME AS TYPE B WITH EMERGENCY BALLAST
C	GE Lighitng	ABC1X30473Cxxx	LED	CEILING	277	PROVIDE WITH INTEGRAL OCCUPANCY SENSOR
CE	GE Lighitng	ABC1X30473Cxxx	LED	CEILING	277	SAME AS TYPE C WITH EMERGENCY BALLAST
D	GE Lighitng	ABC1X30475Cxxx	LED	CEILING	277	PROVIDE WITH INTEGRAL OCCUPANCY SENSOR
E	GE Lighting	EWS3-4-E3-D1-40-3-DKBZ	LED	WALL	277	OR EQUAL
DE	GE Lighitng	ABC1X30475Cxxx	LED	CEILING	277	SAME AS TYPE D WITH EMERGENCY BALLAST
X1	Compass	CCR	LED	WALL	277	OR EQUAL
EM	Compass	CU2	LED	WALL	277	OR EQUAL

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

SPECIFICATIONS

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

ELECTRICAL GENERAL NOTES

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

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SCANNELL PROPERTIES

CERTIFICATION

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING A LOT 1

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

STATE OF MISSOURI
JOHN WILLIAM CARPENTER
NUMBER E-14378
PROFESSIONAL ENGINEER
8/31/22

ISSUE DATES

PERMIT SET	02.18.22

210300

Riser

E5.0

PANEL: MDP1 — 3000 MB 277/ 480 V, 3PH, 4W.+GRND. — NEW PANEL

CCT	SERVES	VA	OCP	WIRE	PHASE	WIRE	OCP	VA	SERVES	CCT
1	RTU A	15512	70/3	4-#4, 1-#8G	A	4-#4, 1-#8G	70/3	15512	RTU A	2
3		15512			B	-		15512		4
5		15512			C	-		15512		6
7	RTU A	15512	70/3	4-#4, 1-#8G	A	4-#4, 1-#8G	70/3	15512	RTU A	8
9		15512			B	-		15512		10
11		15512			C	-		500		12
13	RTU A	15512	70/3	4-#4, 1-#8G	A	4-#4, 1-#8G	70/3	15512	RTU A	14
15		15512			B	-		15512		16
17		15512			C	-		15512		18
19	RTU A	15512	70/3	4-#4, 1-#8G	A	4-#4, 1-#8G	70/3	15512	RTU A	20
21		15512			B	-		15512		22
23		15512			C	-		15512		24
25	RTU A	15512	20/3	4-#4, 1-#8G	A	4-#10, 1-#10G	20/3	500	HVLS FAN	26
27		15512			B			500	HVLS FAN	28
29		15512			C			500	HVLS FAN	30
31	HVLS FAN	1000	20/3	4-#12, 1-#12G	A	4-#12, 1-#12G	20/3	3333	AIR CURTAIN	32
33	HVLS FAN	1000			B			3333		34
35	HVLS FAN	1000			C			3333		36
37	AIR CURTAIN	3333	20/3	4-#12, 1-#12G	A	4-#12, 1-#12G	20/3	3333	AIR CURTAIN	38
39		3333			B			3333		40
41		3333			C			3333		42
43	**AIR CURTAIN**	3333	20/3	4-#12, 1-#12G	B	4-#12, 1-#12G	20/3	3333	**AIR CURTAIN**	44
45		3333			C			3333		46
47		3333			A			3333		48
49	**AIR CURTAIN**	3333	20/3	4-#12, 1-#12G	B	4-#12, 1-#12G	20/3	3333	AIR CURTAIN	50
51		3333			C			3333		52
53		3333			A			3333		54
55	AIR CURTAIN	3333	20/3	4-#12, 1-#12G	B	4-#12, 1-#12G	20/3	3333	AIR CURTAIN	56
57		3333		--	C	--		3333		58
59		3333			B			3333		60
61	AIR CURTAIN	3333	20/3	4-#12, 1-#12G	C	2 SETS: 4-#500 AL, 1-#4/0 ALG	600/3	121977	DPH1	62
63		3333			A			120325		64
65		3333			B			121175		66
67	AIR CURTAIN	3333	20/3	4-#12, 1-#12G	C	4-#250 AL, 1-#10 AL G	200/3	16020	PANEL MH	68
69		3333			B			16580		70
71		3333			C			16620		72
73	PANEL MH1 EQUIPMENT	88640	400/3	4-#750 AL, 1-#3/0 AL G	B	4 SETS: 4-#500 AL, 1-#250 AL G	1200/3	178924	PANEL DPH3	74
75		88640		--	C	--		178924		76
77		88640			B			178924		78
79	PANEL DPH2	115138	600/3	2 SETS: 4-#300 AL, 1-#4/0 ALG	C	4-#750 AL, 1-#3/0 AL G	400/3	35456	BC1	80
81		115366			A			35456		82
83		113386			B			35456		84
85	BC2	35456	400/3	4-#750 AL, 1-#3/0 AL G	C	4-#750 AL, 1-#3/0 AL G	400/3	35456	BC3	86
87		35456			B			35456		88
89		35456			C			35456		90
91	**WAREHOUSE LIGHT 5**	1260	20/1	4-#12, 1-#12G	A	3-#12, 1-#12G	20/1	1260	**WAREHOUSE LIGHT 5**	92
93	**WAREHOUSE LIGHT 5**	1260	**20/1**	4-#12, 1-#12G	B	3-#12, 1-#12G	20/1	2110	WAREHOUSE LIGHTS	94
95	**WAREHOUSE LIGHT 5**	1260	**20/1**	4-#12, 1-#12G	C	3-#12, 1-#12G	20/1	2110	WAREHOUSE LIGHTS	96
97	**TRANSFORMER**		**100/3**	4-#3, 1-#8G	A	3-#12, 1-#12G	20/1	2110	WAREHOUSE LIGHTS	98
99				--	B	3-#12, 1-#12G	20/1	1470	WAREHOUSE LIGHTS	100
101				--	C	3-#12, 1-#12G	20/1	1470	WAREHOUSE LIGHTS	102

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

LOAD SUMMARY	CONN	NEC	DEM	LOAD BALANCE PER PHASE	
1-LIGHTING	14310	1.25	17887.5	PHASE A	322598
2-RECEPTACLES	0	NEC	0	PHASE B	321516
3-KITCHEN	0	0.65	0	PHASE C	305394
4-HVAC	2394604	1	2394604	LOWEST PHASE PLUS 10%	
5-NON-CONT	4500	1	4500	305394 + 10%	335933.4
LARGEST MOTOR	0	0.25	0	PHASES ARE BALANCED	
TOTAL VA	2413414		2416991.5		
TOTAL AMPS	2903.0		2907.3		

PANEL: DPL — 200 MLO 120/ 208 V, 3PH, 4W.+GRND. — NEW PANEL

CCT	SERVES	VA	OCP	WIRE	PHASE	WIRE	OCP	VA	SERVES	CCT
1	DOCK EQUIPMENT	800	20/1	2-#12, 1-#12G	A	2-#12, 1-#12G	20/1	800	DOCK EQUIPMENT	2
3	DOCK EQUIPMENT	400	20/1	2-#12, 1-#12G	B	2-#12, 1-#12G	20/1	800	GFCI RECEP	4
5	DOCK EQUIPMENT	600	20/1	2-#12, 1-#12G	C	2-#12, 1-#12G	20/1	800	GFCI RECEP	6
7	EWAUST FAN	560	20/1	2-#12, 1-#12G	A	2-#12, 1-#12G	20/1		SPARE	8
9	SPARE		20/1	2-#12, 1-#12G	B	2-#12, 1-#12G	20/1		SPARE	10
11	SPARE		20/1	2-#12, 1-#12G	C	2-#12, 1-#12G	20/1		SPARE	12
13	SPARE		20/1	2-#12, 1-#12G	A	2-#12, 1-#12G	20/1		SPARE	14
15	SPARE		20/1	2-#12, 1-#12G	B	2-#12, 1-#12G	20/1		SPARE	16
17					C					18
19					A					20
21					B					22
23					C					24
25					A					26
27					B					28
29					C					30
31					A					32
33					B					34
35					C					36
37					A					38
39					B					40
41					C					42

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

LOAD SUMMARY	CONN	NEC	DEM	LOAD BALANCE PER PHASE	
1-LIGHTING	0	1.25	0	PHASE A	1960
2-RECEPTACLES	4560	NEC	4560	PHASE B	1200
3-KITCHEN	0	0.65	0	PHASE C	1400
4-HVAC	0	1	0	LOWEST PHASE PLUS 10%	
5-NON-CONT	0	1	0	1200 + 10%	1320
LARGEST MOTOR	0	0.25	0	REBALANCE LOADS	
TOTAL VA	4560		4560		
TOTAL AMPS	12.7		12.7		

PANEL: LB — 100 MLO 120/ 208 V, 3PH, 4W.+GRND. — EXISTING

CCT	SERVES	VA	OCP	WIRE	PHASE	WIRE	OCP	VA	SERVES	CCT
1	RECEP	800	20/1	2-#12, 1-#12G	A	2-#12, 1-#12G	20/1	120	LIGHTS	2
3	PCU-2	1248	15/2	2-#12, 1-#12G	B	2-#12, 1-#12G	20/1	200	GFCI RECEP	4
5		1248			C	2-#12, 1-#12G	20/1		SPARE	6
7	DOCK RECEP	800	20/1	2-#12, 1-#12G	A	2-#12, 1-#12G	20/1		SPARE	8
9	DOCK RECEP	800	20/1	2-#12, 1-#12G	B	2-#12, 1-#12G	20/1		SPARE	10
11	DOCK RECEP	800	20/1	2-#12, 1-#12G	C	2-#12, 1-#12G	20/1		SPARE	12
13	SPARE		20/1	2-#12, 1-#12G	A	2-#12, 1-#12G	20/1		SPARE	14
15	SPARE		20/1	2-#12, 1-#12G	B	2-#12, 1-#12G	20/1		SPARE	16
17					C					18
19					A					20
21					B					22
23					C					24
25					A					26
27					B					28
29					C					30
31					A					32
33					B					34
35					C					36
37					A					38
39					B					40
41					C					42

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

LOAD SUMMARY	CONN	NEC	DEM	LOAD BALANCE PER PHASE	
1-LIGHTING	120	1.25	150	PHASE A	1720
2-RECEPTACLES	5696	NEC	5696	PHASE B	2248
3-KITCHEN	0	0.65	0	PHASE C	2048
4-HVAC	200	1	200	LOWEST PHASE PLUS 10%	
5-NON-CONT	0	1	0	1720 + 10%	1892
LARGEST MOTOR	0	0.25	0	REBALANCE LOADS	
TOTAL VA	6016		6046		
TOTAL AMPS	16.7		16.8		

PANEL: DPL3 — 200 MLO 120/ 208 V, 3PH, 4W.+GRND. — NEW PANEL

CCT	SERVES	VA	OCP	WIRE	PHASE	WIRE	OCP	VA	SERVES	CCT
1	DOCK EQUIPMENT	800	20/1	2-#12, 1-#12G	A	2-#12, 1-#12G	20/1	800	DOCK EQUIPMENT	2
3	DOCK EQUIPMENT	400	20/1	2-#12, 1-#12G	B	2-#12, 1-#12G	20/1	800	DOCK EQUIPMENT	4
5	DOCK EQUIPMENT	600	20/1	2-#12, 1-#12G	C	2-#12, 1-#12G	20/1	800	GFCI RECEP	6
7	EWAUST FAN	560	20/1	2-#12, 1-#12G	A	2-#12, 1-#12G	20/1		SPARE	8
9	COOLER RECEP	1200	20/1	2-#12, 1-#12G	B	2-#12, 1-#12G	20/1	1200	COOLER RECEP	10
11	SPARE		20/1	2-#12, 1-#12G	C	2-#12, 1-#12G	20/1	1200	COOLER RECEP	12
13	SPARE		20/1	2-#12, 1-#12G	A	2-#12, 1-#12G	20/1	1200	COOLER RECEP	14
15	SPARE		20/1	2-#12, 1-#12G	B	2-#12, 1-#12G	20/1		SPARE	16
17					C					18
19					A					20
21					B					22
23					C					24
25					A					26
27					B					28
29					C					30
31					A					32
33					B					34
35					C					36
37					A					38
39					B					40
41					C					42

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

LOAD SUMMARY	CONN	NEC	DEM	LOAD BALANCE PER PHASE	
1-LIGHTING	0	1.25	0	PHASE A	3960
2-RECEPTACLES	10160	NEC	10160	PHASE B	3600
3-KITCHEN	0	0.65	0	PHASE C	2600
4-HVAC	0	1	0	LOWEST PHASE PLUS 10%	
5-NON-CONT	0	1	0	2600 + 10%	2860
LARGEST MOTOR	0	0.25	0	REBALANCE LOADS	
TOTAL VA	10160		10160		
TOTAL AMPS	28.2		28.0		

PANEL: MSL — 150 MLO 120/ 208 V, 3PH, 4W.+GRND. — NEW PANEL

CCT	SERVES	VA	OCP	WIRE	PHASE	WIRE	OCP	VA	SERVES	CCT
1	RECEP	1000	20/1	2-#12, 1-#12G	A	2-#12, 1-#12G	20/1	1000	RECEP	2
3	RECEP	1000	20/1	2-#12, 1-#12G	B	2-#12, 1-#12G	20/1	600	RECEP	4
5	RECEP	1000	20/1	2-#12, 1-#12G	C	2-#12, 1-#12G	50/2	4160	WELDING RECEP	6
7	GFCI RECEP	200	20/1	2-#12, 1-#12G	A	2-#12, 1-#12G		4160		8
9	SPARE		20/1	2-#12, 1-#12G	B	2-#12, 1-#12G	20/1		SPARE	10
11	SPARE		20/1	2-#12, 1-#12G	C	2-#12, 1-#12G	20/1		SPARE	12
13	SPARE		20/1	2-#12, 1-#12G	A	2-#12, 1-#12G	20/1		SPARE	14
15	SPARE		20/1	2-#12, 1-#12G	B	2-#12, 1-#12G	20/1		SPARE	16
17					C					18
19					A					20
21					B					22
23					C					24
25					A					26
27					B					28
29					C					30
31					A					32
33					B					34
35					C					36
37					A					38
39					B					40
41					C					42

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

LOAD SUMMARY	CONN	NEC	DEM	LOAD BALANCE PER PHASE	
1-LIGHTING	0	1.25	0	PHASE A	6360
2-RECEPTACLES	4080	NEC	4080	PHASE B	1600
3-KITCHEN	0	0.65	0	PHASE C	5160
4-HVAC	0	1	0	LOWEST PHASE PLUS 10%	
5-NON-CONT	8320	1	8320	1600 + 10%	1760
LARGEST MOTOR	0	0.25	0	REBALANCE LOADS	
TOTAL VA	13120		13120		
TOTAL AMPS	36.4		36.4		

PANEL: DPH3 — 1200 MB 277/ 480 V, 3PH, 4W.+GRND. — NEW PANEL

CCT	SERVES	VA	OCP	WIRE	PHASE	WIRE	OCP	VA	SERVES	CCT
1	RTU A	15512	70/3	4-#4, 1-#8G	A	4-#4, 1-#8G	70/3	15512	RTU A	2
3		15512			B			15512		4
5		15512			C	-		15512		6
7	RTU A	15512	70/3	4-#4, 1-#8G	A	4-#4, 1-#8G	70/3	15512	RTU A	8
9		15512			B	-		15512		10
11		15512			C	-		15512		12
13	RTU A	15512	70/3	4-#4, 1-#8G	A	4-#4, 1-#8G	70/3	15512	RTU A	14
15		15512			B	-		15512		16
17		15512			C	-		15512		18
19	RTU A	15512	70/3	4-#4, 1-#8G	A	4-#4, 1-#8G	70/3	15512	RTU A	20
21		15512			B	-		15512		22
23		15512			C	-		15512		24
25	HVLS FAN	1000	20/3	4-#10, 1-#10G	A	4-#10, 1-#10G	20/3	500	HVLS FAN	26
27	HVLS FAN	1000			B			500	HVLS FAN	28
29	HVLS FAN	1000			C			500	HVLS FAN	30
31	AIR CURTAIN	3333	20/3	4-#12, 1-#12G	A	4-#12, 1-#12G	20/3	3333	AIR CURTAIN	32
33		3333			B			3333		34
35		3333			C			3333		36
37	AIR CURTAIN	3333	20/3	4-#12, 1-#12G	A	4-#12, 1-#12G	20/3	3333	AIR CURTAIN	38
39		3333			B			3333		40
41		3333			C			3333		42
43	**AIR CURTAIN**	3333	20/3	4-#12, 1-#12G	B	4-#12, 1-#12G	20/3	3333	**AIR CURTAIN**	44
45		3333			C			3333		46
47		3333			A			3333		48
49	**AIR CURTAIN**	3333	20/3	4-#12, 1-#12G	B	4-#12, 1-#12G	20/3	3333	AIR CURTAIN	50
51		3333			C			3333		52
53		3333			A			3333		54
55	AIR CURTAIN	3333	20/3	4-#12, 1-#12G	B	4-#12, 1-#12G	20/3	3333	AIR CURTAIN	56
57		3333		--	C	--		3333		58
59		3333			B			3333		60
61	AIR CURTAIN	3333	20/3	4-#12, 1-#12G	C	4-#12, 1-#12G	20/3	3333	AIR CURTAIN	62
63		3333			A			3333		64
65		3333			B			3333		66
67	AIR CURTAIN	3333	20/3	4-#12, 1-#12G	C	4-#12, 1-#12G	20/3	3333	AIR CURTAIN	68
69		3333			B			3333		70
71		3333			C			3333		72
73	**AIR CURTAIN**	3333	20/3	4-#12, 1-#12G	A	4-#12, 1-#12G	20/3	3333	**AIR CURTAIN**	74
75		3333			B			3333		76
77		3333			C			3333		78
79	**WAREHOUSE LIGHT 8**	1890	20/1	3-#12, 1-#12G	B	3-#12, 1-#12G	20/1	1980	**WAREHOUSE LIGHT 8**	80
81	**WAREHOUSE LIGHT 8**	1890	20/1	3-#12, 1-#12G	C	3-#12, 1-#12G	20/1	1980	**WAREHOUSE LIGHT 8**	82
83	**WAREHOUSE LIGHT 8**	1890	20/1	3-#12, 1-#12G	A	3-#12, 1-#12G	20/1	1980	**WAREHOUSE LIGHT 8**	84
85	**WAREHOUSE LIGHT 8**	1890	20/1	3-#12, 1-#12G	B	3-#12, 1-#12G	20/1	1890	WAREHOUSE LIGHTS	86
87	**WAREHOUSE LIGHT 8**	1890	20/1	3-#12, 1-#12G	C	3-#12, 1-#12G	20/1	1890	WAREHOUSE LIGHTS	88
89	**WAREHOUSE LIGHT 8**	1890	20/1	3-#12, 1-#12G	A	3-#12, 1-#12G	20/1	2520	WAREHOUSE LIGHTS	90
91	WAREHOUSE LIGHTS	1890	20/1	3-#12, 1-#12G	B	3-#12, 1-#12G	20/1	2110	WAREHOUSE LIGHTS	92
93	WAREHOUSE LIGHTS	1260	20/1	3-#12, 1-#12G	C	3-#12, 1-#12G	20/1	1890	WAREHOUSE LIGHTS	94
95	WAREHOUSE LIGHTS	1680	20/1	3-#12, 1-#12G	B	3-#12, 1-#12G	20/1	2730	WAREHOUSE LIGHTS	96
97	WAREHOUSE LIGHTS	2520	20/1	3-#12, 1-#12G	C	3-#12, 1-#12G	20/1	2730	WAREHOUSE LIGHTS	98
99	WAREHOUSE LIGHTS	1260	20/1	3-#12, 1-#12G	A					100
101	WAREHOUSE LIGHTS	2520	20/1	3-#12, 1-#12G	B					102
103					C					104
105					B					106
107					C					108
109					A					110
111					B					112
113					C					114
115	TRANSFORMER		100/3	3-#3, 1-#8G	A	3-#3, 1-#8G	75/3		TRANSFORMER	116
117				--	B					118
119				--	C	--				120

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

LOAD SUMMARY	CONN	NEC	DEM	LOAD BALANCE PER PHASE	
1-LIGHTING	43850	1.25	53562	PHASE A	178924
2-RECEPTACLES	0	NEC	0	PHASE B	178924
3-KITCHEN	0	0.65	0	PHASE C	178924
4-HVAC	532272	1	532272	LOWEST PHASE PLUS 10%	
5-NON-CONT	4500	1	4500	178924 + 10%	196816.4
LARGEST MOTOR	0	0.25	0	PHASES ARE BALANCED	
TOTAL VA	579622		590334.5		
TOTAL AMPS	697.2		710.1		

PANEL: DPH2 — 600A MLO 277/ 480 V, 3PH, 4W.+GRND. — NEW PANEL

CCT	SERVES	VA	OCP	WIRE	PHASE	WIRE	OCP	VA	SERVES	CCT
1	CCU 02	39334	150/3	2-#12, 1-#12G	A	2-#12, 1-#12G	150/3	39334	CCU 04	2
3		39334		2-#12, 1-#12G	B	2-#12, 1-#12G		39334		4
5		39334		2-#12, 1-#12G	C	2-#12, 1-#12G		39334		6
7	CFU 1	8864	40/3	2-#12, 1-#12G	A	2-#12, 1-#12G	40/3	8864	CFU-2	8
9		8864			B	2-#12, 1-#12G		8864		10
11		8864			C	2-#12, 1-#12G		8864		12
13	WAREHOUSE LIGHTS	2000	20/1	2-#12, 1-#12G	A	2-#12, 1-#12G	20/1	2000	WAREHOUSE LIGHTS	14
15	WAREHOUSE LIGHTS	2000	20/1	2-#12, 1-#12G	B	3-#8, 1-#10G	50/3	6925	MAU1	16
17	WAREHOUSE LIGHTS	2000	20/1	2-#12, 1-#12G	C			6925		18
19	OVERHEAD DOOR	200	20/3	4-#10, 1-#12G	A			6925		20
21		200			B	3-#8, 1-#10G	25/3	5617	RTU 5	22
23		200			C			5617		24
25					A			5617		26
27					B					28
29					C					30
31					A					32
33			-		B					34
35			-		C					36
37	TRANSFORMER	1800	50/3	3-#8, 1-#10G	A		-			38
39	TRANSFORMER	2248			B		-			40
41	TRANSFORMER	2048	-		C		-			42

NOTES
1 NEMA 1 ENCLOSURE
2 PROVIDE BOLT ON BREAKERS
3

LOAD SUMMARY	CONN	NEC	DEM	LOAD BALANCE PER PHASE	
1-LIGHTING	8000	1.25	10000	PHASE A	115138
2-RECEPTACLES	6096	NEC	6096	PHASE B	113386
3-KITCHEN	0	0.65	0	PHASE C	113366
4-HVAC	327414	1	327414	LOWEST PHASE PLUS 10%	
5-NON-CONT	600	1	600	113386 + 10%	124724.6
LARGEST MOTOR	0	0.25	0	PHASES ARE BALANCED	
TOTAL VA	342110		344110		
TOTAL AMPS	411.5		413.9		

PANEL: DPH1 — 600A MLO 277/ 480 V, 3PH, 4W.+GRND. — NEW PANEL

CCT	SERVES	VA	OCP	WIRE	PHASE	WIRE	OCP	VA	SERVES	CCT
1	CCU 01	39334	150/3	2-#12, 1-#12G	A	2-#12, 1-#12G	150/3	39334	CCU 03	2
3		39334		2-#12, 1-#12G	B	2-#12, 1-#12G		39334		4
5		39334		2-#12, 1-#12G	C	2-#12, 1-#12G		39334		6
7	RTU A	15512	70/3	2-#12, 1-#12G	A	3-#12, 1-#12G	70/3	15512	RTU A	8
9		15512			B	2-#12, 1-#12G		15512		10
11		15512			C	2-#12, 1-#12G		15512		12
13	WAREHOUSE LIGHTS	1680	20/1	2-#12, 1-#12G	A	3-#12, 1-#12G	20/1	1680	WAREHOUSE LIGHTS	14
15	WAREHOUSE LIGHTS	1260	20/1	2-#12, 1-#12G	B	3-#8, 1-#10G	50/3	6925	MAU1	16
17	WAREHOUSE LIGHTS	2310	20/1	2-#12, 1-#12G	C			6925		18
19	OVERHEAD DOOR	200	20/3	4-#10, 1-#12G	A			6925		20
21		200			B					22
23		200			C					24
25					A					26
27					B					28
29					C					30
31					A					32
33			-		B					34
35			-		C					36
37	TRANSFORMER	1800	50/3	3-#8, 1-#10G	A		-			38
39	TRANSFORMER	2248			B		-			40
41	TRANSFORMER	2048	-		C		-			42

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

LOAD SUMMARY	CONN	NEC	DEM	LOAD BALANCE PER PHASE	
1-LIGHTING	6930	1.25	8662.5	PHASE A	121977
2-RECEPTACLES	6096	NEC	6096	PHASE B	120325
3-KITCHEN	0	0.65	0	PHASE C	121175
4-HVAC	349851	1	349851	LOWEST PHASE PLUS 10%	
5-NON-CONT	600	1	600	120325 + 10%	132357.5
LARGEST MOTOR	0	0.25	0	PHASES ARE BALANCED	
TOTAL VA	363477		365289.5		
TOTAL AMPS	437.2		439.3		

PANEL: MHE — 400 MLO 277/ 480 V, 3PH, 4W.+GRND. — NEW PANEL

CCT	SERVES	VA	OCP	WIRE	PHASE	WIRE	OCP	VA	SERVES	CCT
1	MHE EQUIPMENT FEED	44320	200/3	2-#12, 1-#12G	A	2-#12, 1-#12G	200/3	44320	MHE EQUIPMENT FEED	2
3		44320			B			44320		4
5		44320			C			44320		6
7					A					8
9					B					10
11					C					12
13					A					14
15					B					16
17					C					18
19					A					20
21					B					22
23					C					24
25					A					26
27					B					28
29					C					30
31					A					32
33					B					34
35					C					36
37					A					38
39					B					40
41					C					42

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

LOAD SUMMARY	CONN	NEC	DEM	LOAD BALANCE PER PHASE	
1-LIGHTING	0	1.25	0	PHASE A	88640
2-RECEPTACLES	221600	NEC	115900	PHASE B	88640
3-KITCHEN	0	0.65	0	PHASE C	88640
4-HVAC	0	1	0	LOWEST PHASE PLUS 10%	
5-NON-CONT	44320	1	44320	88640 + 10%	97504
LARGEST MOTOR	0	0.25	0	PHASES ARE BALANCED	
TOTAL VA	265920		160220		
TOTAL AMPS	319.9		192.8		

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

THIS DRAWING AND THE IDEAS, DESIGNS AND CONCEPTS CONTAINED HEREIN ARE TH

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

CCT	SERVES	VA	OCP	WIRE	PHASE	WIRE	OCP	VA	SERVES	CCT
1	RECEP	800	20/1	2-#12,1-#12G	A	2-#12,1-#12G	20/1	200	LIGHTS	2
3	FCU-1	1248	15/2	2-#12,1-#12G	B	2-#12,1-#12G	20/1	200	GFCI RECEP	4
5		1248			C	2-#12,1-#12G	20/1		SPARE	6
7	DOCK RECEP	800	20/1	2-#12,1-#12G	A	2-#12,1-#12G	20/1		SPARE	8
9	DOCK RECEP	800	20/1	2-#12,1-#12G	B	2-#12,1-#12G	20/1		SPARE	10
11	DOCK RECEP	800	20/1	2-#12,1-#12G	C	2-#12,1-#12G	20/1		SPARE	12
13	SPARE		20/1	2-#12,1-#12G	A	2-#12,1-#12G	20/1		SPARE	14
15	SPARE		20/1	2-#12,1-#12G	B	2-#12,1-#12G	20/1		SPARE	16
17					C					18
19					A					20
21					B					22
23					C					24
25					A					26
27					B					28
29					C					30
31					A					32
33					B					34
35					C					36
37					A					38
39					B					40
41					C					42

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

LOAD SUMMARY	CONN	NEC	DEM	LOAD BALANCE PER PHASE	
1-LIGHTING	200	1.25	250	PHASE A	1800
2-RECEPTACLES	5696	NEC	5696	PHASE B	2248
3-KITCHEN	0	0.65	0	PHASE C	2048
4-HVAC	200	1	200	LOWEST PHASE PLUS 10%	
5-NON-CONT	0	1	0	1000 + 10%	1980
LARGEST MOTOR	0	0.25	0	REBALANCE LOADS	
TOTAL VA	6096		6146		
TOTAL AMPS	16.9		17.1		

PANEL: BC1 400 MLO 277/ 480 V, 3PH, 4W,+GRND. **NEW PANEL**

CCT	SERVES	VA	OCP	WIRE	PHASE	WIRE	OCP	VA	SERVES	CCT
1	BATTERY CHARGER	4432	30/3	3-#10,1-#10G	A	3-#10,1-#10G	30/3	4432	BATTERY CHARGER	2
3	BATTERY CHARGER	4432			B			4432	BATTERY CHARGER	4
5	BATTERY CHARGER	4432			C			4432	BATTERY CHARGER	6
7	BATTERY CHARGER	4432	30/3	3-#12,1-#10G	A	3-#12,1-#10G	30/3	4432	BATTERY CHARGER	8
9	BATTERY CHARGER	4432			B			4432	BATTERY CHARGER	10
11	BATTERY CHARGER	4432			C			4432	BATTERY CHARGER	12
13	BATTERY CHARGER	4432	30/3	3-#12,1-#10G	A	3-#12,1-#10G	30/3	4432	BATTERY CHARGER	14
15	BATTERY CHARGER	4432			B			4432	BATTERY CHARGER	16
17	BATTERY CHARGER	4432			C			4432	BATTERY CHARGER	18
19	BATTERY CHARGER	4432	30/3	3-#12,1-#10G	A	3-#12,1-#10G	30/3	4432	BATTERY CHARGER	20
21	BATTERY CHARGER	4432			B			4432	BATTERY CHARGER	22
23	BATTERY CHARGER	4432			C			4432	BATTERY CHARGER	24
25					A					26
27					B					28
29					C					30
31					A					32
33			-		B					34
35			-		C					36
37					A		-			38
39					B		-			40
41			-		C		-			42

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

LOAD SUMMARY	CONN	NEC	DEM	LOAD BALANCE PER PHASE	
1-LIGHTING	0	1.25	0	PHASE A	35456
2-RECEPTACLES	0	NEC	0	PHASE B	35456
3-KITCHEN	0	0.65	0	PHASE C	35456
4-HVAC	0	1	0	LOWEST PHASE PLUS 10%	
5-NON-CONT	106368	1	106368	35456 + 10%	39001.6
LARGEST MOTOR	0	0.25	0	PHASES ARE BALANCED	
TOTAL VA	106368		106368		
TOTAL AMPS	127.9		127.9		

PANEL: BC2 400 MLO 277/ 480 V, 3PH, 4W,+GRND. **NEW PANEL**

CCT	SERVES	VA	OCP	WIRE	PHASE	WIRE	OCP	VA	SERVES	CCT
1	BATTERY CHARGER	4432	30/3	3-#10,1-#10G	A	3-#10,1-#10G	30/3	4432	BATTERY CHARGER	2
3	BATTERY CHARGER	4432			B			4432	BATTERY CHARGER	4
5	BATTERY CHARGER	4432			C			4432	BATTERY CHARGER	6
7	BATTERY CHARGER	4432	30/3	3-#12,1-#10G	A	3-#12,1-#10G	30/3	4432	BATTERY CHARGER	8
9	BATTERY CHARGER	4432			B			4432	BATTERY CHARGER	10
11	BATTERY CHARGER	4432			C			4432	BATTERY CHARGER	12
13	BATTERY CHARGER	4432	30/3	3-#12,1-#10G	A	3-#12,1-#10G	30/3	4432	BATTERY CHARGER	14
15	BATTERY CHARGER	4432			B			4432	BATTERY CHARGER	16
17	BATTERY CHARGER	4432			C			4432	BATTERY CHARGER	18
19	BATTERY CHARGER	4432	30/3	3-#12,1-#10G	A	3-#12,1-#10G	30/3	4432	BATTERY CHARGER	20
21	BATTERY CHARGER	4432			B			4432	BATTERY CHARGER	22
23	BATTERY CHARGER	4432			C			4432	BATTERY CHARGER	24
25					A					26
27					B					28
29					C					30
31					A					32
33			-		B					34
35			-		C					36
37					A		-			38
39					B		-			40
41			-		C		-			42

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

LOAD SUMMARY	CONN	NEC	DEM	LOAD BALANCE PER PHASE	
1-LIGHTING	0	1.25	0	PHASE A	35456
2-RECEPTACLES	0	NEC	0	PHASE B	35456
3-KITCHEN	0	0.65	0	PHASE C	35456
4-HVAC	0	1	0	LOWEST PHASE PLUS 10%	
5-NON-CONT	106368	1	106368	35456 + 10%	39001.6
LARGEST MOTOR	0	0.25	0	PHASES ARE BALANCED	
TOTAL VA	106368		106368		
TOTAL AMPS	127.9		127.9		

PANEL: BC3 400 MLO 277/ 480 V, 3PH, 4W,+GRND. **NEW PANEL**

CCT	SERVES	VA	OCP	WIRE	PHASE	WIRE	OCP	VA	SERVES	CCT
1	BATTERY CHARGER	4432	30/3	3-#10,1-#10G	A	3-#10,1-#10G	30/3	4432	BATTERY CHARGER	2
3	BATTERY CHARGER	4432			B			4432	BATTERY CHARGER	4
5	BATTERY CHARGER	4432			C			4432	BATTERY CHARGER	6
7	BATTERY CHARGER	4432	30/3	3-#12,1-#10G	A	3-#12,1-#10G	30/3	4432	BATTERY CHARGER	8
9	BATTERY CHARGER	4432			B			4432	BATTERY CHARGER	10
11	BATTERY CHARGER	4432			C			4432	BATTERY CHARGER	12
13	BATTERY CHARGER	4432	30/3	3-#12,1-#10G	A	3-#12,1-#10G	30/3	4432	BATTERY CHARGER	14
15	BATTERY CHARGER	4432			B			4432	BATTERY CHARGER	16
17	BATTERY CHARGER	4432			C			4432	BATTERY CHARGER	18
19	BATTERY CHARGER	4432	30/3	3-#12,1-#10G	A	3-#12,1-#10G	30/3	4432	BATTERY CHARGER	20
21	BATTERY CHARGER	4432			B			4432	BATTERY CHARGER	22
23	BATTERY CHARGER	4432			C			4432	BATTERY CHARGER	24
25					A					26
27					B					28
29					C					30
31					A					32
33			-		B					34
35			-		C					36
37					A		-			38
39					B		-			40
41			-		C		-			42

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

LOAD SUMMARY	CONN	NEC	DEM	LOAD BALANCE PER PHASE	
1-LIGHTING	0	1.25	0	PHASE A	35456
2-RECEPTACLES	0	NEC	0	PHASE B	35456
3-KITCHEN	0	0.65	0	PHASE C	35456
4-HVAC	0	1	0	LOWEST PHASE PLUS 10%	
5-NON-CONT	106368	1	106368	35456 + 10%	39001.6
LARGEST MOTOR	0	0.25	0	PHASES ARE BALANCED	
TOTAL VA	106368		106368		
TOTAL AMPS	127.9		127.9		

PANEL: MH 200A MLO 277/ 480 V, 3PH, 4W,+GRND. **NEW PANEL**

CCT	SERVES	VA	OCP	WIRE	PHASE	WIRE	OCP	VA	SERVES	CCT
1	RTU 1	4155	20/3	3-#10,1-#10G	A	3-#10,1-#12G	20/3	4155	RTU 2	2
3	RTU 1	4155			B			4155	RTU 2	4
5	RTU 1	4155			C			4155	RTU 2	6
7	RTU 3	4155	20/3	3-#10,1-#10G	A	3-#10,1-#12G	20/3	4155	RTU 4	8
9	RTU 3	4155			B			4155	RTU 4	10
11	RTU 3	4155			C			4155	RTU 4	12
13	OFFICE LIGHTS	1600	20/1	2-#12,1-#12G	A	2-#12,1-#12G	20/1			14
15	OFFICE LIGHTS	1960	20/1	2-#12,1-#12G	B	2-#12,1-#12G	20/1			16
17			20/1	2-#12,1-#12G	C	2-#12,1-#12G	20/1			18
19			20/1	2-#12,1-#12G	A	2-#12,1-#12G	20/1			20
21			20/1	2-#12,1-#12G	B	2-#12,1-#12G	20/1			22
23			20/1	2-#12,1-#12G	C	2-#12,1-#12G	20/1			24
25			20/1	2-#12,1-#12G	A					26
27					B					28
29					C					30
31					A					32
33			-		B					34
35			-		C					36
37	TRANSFORMER		100/3	3-#3,1-#8G	A		-			38
39	TRANSFORMER				B		-			40
41	TRANSFORMER		-		C		-			42

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

LOAD SUMMARY	CONN	NEC	DEM	LOAD BALANCE PER PHASE	
1-LIGHTING	3560	1.25	4450	PHASE A	18220
2-RECEPTACLES	0	NEC	0	PHASE B	18580
3-KITCHEN	0	0.65	0	PHASE C	19620
4-HVAC	49860	1	49860	LOWEST PHASE PLUS 10%	
5-NON-CONT	0	1	0	19620 + 10%	18282
LARGEST MOTOR	0	0.25	0	REBALANCE LOADS	
TOTAL VA	53420		54310		
TOTAL AMPS	84.3		85.3		

PANEL: ML 200A MLO 120/ 208 V, 3PH, 4W,+GRND. **NEW PANEL**

CCT	SERVES	VA	OCP	WIRE	PHASE	WIRE	OCP	VA	SERVES	CCT
1	GFCI RECEP	400	20/1	2-#12,1-#12G	A	2-#12,1-#12G	20/1	800	RECEPS	2
3	RECEPS	1400	20/1	2-#12,1-#12G	B	2-#12,1-#12G	20/1	800	RECEPS	4
5	RECEPS	1600	20/1	2-#12,1-#12G	C	2-#12,1-#12G	20/1	1000	RECEPS	6
7	PRINTER	1200	20/1	2-#12,1-#12G	A	2-#12,1-#12G	20/1	800	RECEPS	8
9	PRINTER	1200	20/1	2-#12,1-#12G	B	2-#12,1-#12G	20/1	1000	RECEPS	10
11	RECEPS	800	20/1	2-#12,1-#12G	C	2-#12,1-#12G	20/1	1000	RECEPS	12
13	RECEPS	1000	20/1	2-#12,1-#12G	A	2-#12,1-#12G	20/1	400	RECEPS	14
15	RECEPS	1000	20/1	2-#12,1-#12G	B	2-#12,1-#12G	20/1	600	RECEPS	16
17	RECEPS	600	20/1	2-#12,1-#12G	C	2-#12,1-#12G	20/1	600	RECEPS	18
19	RECEPS	600	20/1	2-#12,1-#12G	A	2-#12,1-#12G	20/1	400	RECEPS	20
21	RECEPS	800	20/1	2-#12,1-#12G	B	2-#12,1-#12G	20/1	600	RECEPS	22
23	RECEPS	400	20/1	2-#12,1-#12G	C	2-#12,1-#12G	20/1	1000	REFRIGERATOR	24
25	REFRIGERATOR	1000	20/1	2-#12,1-#12G	A	2-#12,1-#12G	20/1	1000	BREAK ROOM RECEP	26
27	REFRIGERATOR	1000	20/1	2-#12,1-#12G	B	2-#12,1-#12G	20/1	1000	BREAK ROOM RECEP	28
29	BREAK ROOM RECEP	1000	20/1	2-#12,1-#12G	C	2-#12,1-#12G	20/1	1000	BREAK ROOM RECEP	30
31	BREAK ROOM RECEP	1000	20/1	2-#12,1-#12G	A	2-#12,1-#12G	20/1	1000	BREAK ROOM RECEP	32
33	BREAK ROOM RECEP	1000	20/1	2-#12,1-#12G	B	2-#12,1-#12G	20/1	1200	DRINKING FOUNTAIN	34
35	BREAK ROOM RECEP	1000	20/1	2-#12,1-#12G	C	2-#12,1-#12G	20/1	400	BATHROOM GFI	36
37	DRYER-RECEP	1500	30/2	3-#10,1-#12G	A	2-#12,1-#12G	20/1	600	WASHER	38
39		1500			B		20/1		SPARE	40
41	SAPRE		20/1		C		20/1		SPARE	42
43	SPARE		20/1		A		20/1		SPARE	44
45	SPARE		20/1		B		20/1		SPARE	46
47	SPARE		20/1		C		20/1		SPARE	48
49					A					50
51					B					52
53					C					54
55					A					56
57					B					58
59					C					60
61					A					62
63					B					64
65					C					66

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

LOAD SUMMARY	CONN	NEC	DEM	LOAD BALANCE PER PHASE	
1-LIGHTING	0	1.25	0	PHASE A	11300
2-RECEPTACLES	34600	NEC	22300	PHASE B	12900
3-KITCHEN	0	0.65	0	PHASE C	10400
4-HVAC	0	1	0	LOWEST PHASE PLUS 10%	
5-NON-CONT	0	1	0	10400 + 10%	11440
LARGEST MOTOR	0	0.25	0	REBALANCE LOADS	
TOTAL VA	34600		22300		
TOTAL AMPS	96.0		61.9		

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 Lot 1
Project Type: New Construction

Construction Site:
NW Corner of NE Tidpr 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	208410	0.48	100037
2-Office	8100	0.79	6399
		Total Allowed Watts =	106436

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	312	210	65520
2-Office				
LED 2: Other:	1	103	40	4120
		Total Proposed Watts =		69640

Interior Lighting PASSES: Design 35% 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. — Name - Title
Signature
08/28/2022 — Date

Project Title: Lee's Summit Logistics Lot 1
Data filename: Untitled.cck
Report date: 08/28/22
Page 1 of 5

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SCANNELL PROPERTIES

CERTIFICATION

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

HERITAGE ELECTRIC

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS
BUILDING A LOT 1

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

STATE OF MISSOURI
JOHN WILLIAM CARPENTER III
NUMBER E-14378
PROFESSIONAL ENGINEER
8/31/22

ISSUE DATES

PERMIT SET	02.18.22

210300

Panel Schedule

E6.1

FIRE PROTECTION PLANS

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

MISSOURI COA: E-2022012018

SCOPE OF WORK

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

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

CODE INFORMATION

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

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

GENERAL REQUIREMENTS

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

VALVES

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

PIPE HANGERS

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

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 30% 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 WASHROOMS 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.
** 2½'' LINE PIPING SHALL BE BLACK STEEL SCH. 7 PIPE, MANUFACTURED TO ASTM A795 STANDARDS.

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

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

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

DESIGN CRITERIA - ESFR

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

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

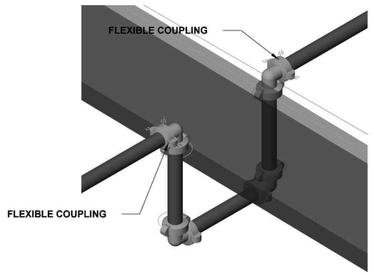
SPRINKLER SYSTEM DESIGN CRITERIA (ESFR)-PALLETIZED/SOLID-PILE/RACK STORAGE:

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

SYSTEMS SHALL BE WET ONLY.

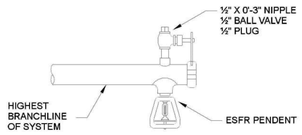
ROOF OR CEILING SLOPES SHALL NOT EXCEED A PITCH OF 2:12.

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



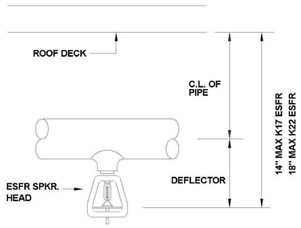
TYPICAL LINE AT EXPANSION JOINT

N.T.S.



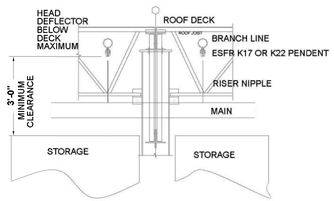
MANUAL AIR VENT DETAIL

N.T.S.



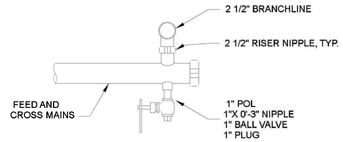
ESFR PENDENT DETAIL

N.T.S.



STORAGE CLEARANCE

N.T.S.



TYPICAL DRAIN DETAIL

N.T.S.

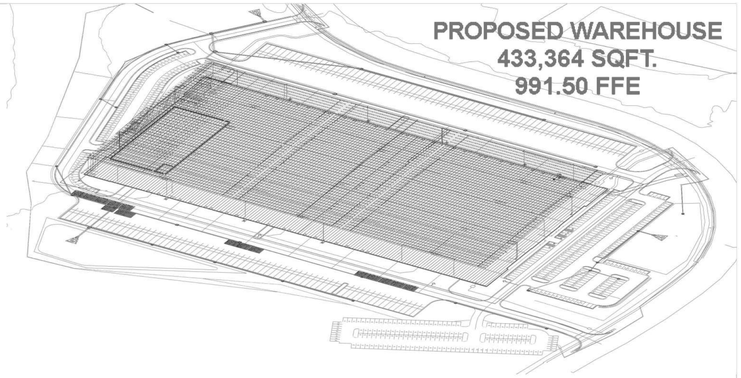
HANGER INSTALLATION REQUIREMENTS

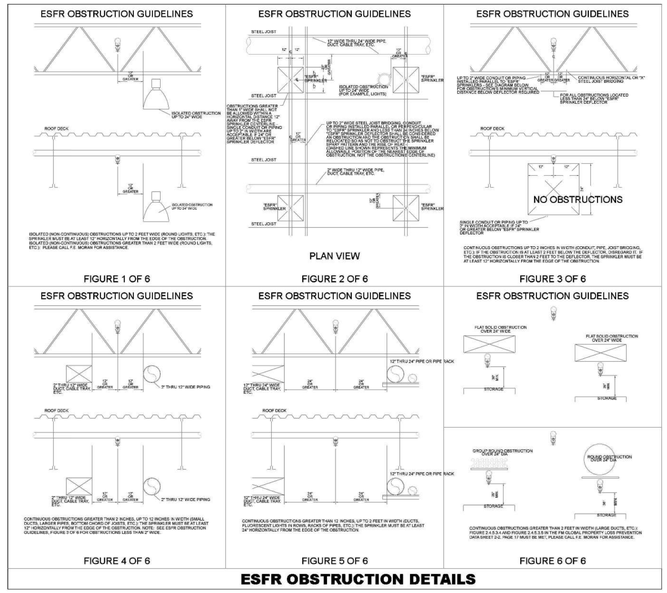
	MAXIMUM DISTANCE BETWEEN HANGERS							
NOMINAL PIPE SIZE	3/4''	1''	1-1/4''	1-1/2''	2''	2-1/2''	3''	4''
~~BLAZEMASTER CPVC~~	~~5' 8''~~	~~6' 0''~~	~~6' 8''~~	~~7' 0''~~	~~8' 0''~~	~~9' 0''~~	~~10' 0''~~	~~N/A~~
~~THREADABLE LIGHTWALL~~	~~N/A~~	~~12' 0''~~	~~12' 0''~~	~~12' 0''~~	~~12' 0''~~	~~12' 0''~~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

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

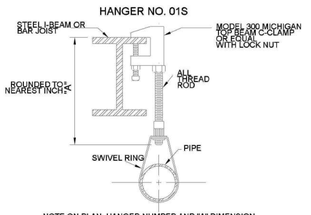
THE CUMULATIVE HORIZONTAL LENGTH OF AN UNSUPPORTED ARMOVER TO A SPRINKLER, SPRINKLER DROP, OR SPRIG-UP SHALL NOT EXCEED 24''

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





ESFR OBSTRUCTION DETAILS



NOTE ON PLAN: HANGER NUMBER AND "A" DIMENSION

TOP BEAM C-CLAMP DETAIL

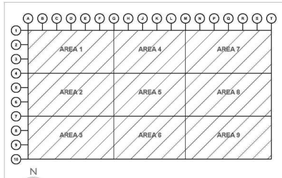
N.T.S.

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

NICET #156488 CERTIFIED

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



KEY PLAN

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

SCANNELL PROPERTIES

CERTIFICATION

STATE OF MISSOURI
MICHELLE A. LOPEZ
NUMBER PE-2022007904
PROFESSIONAL ENGINEER
09/07/22

PROJECT INFORMATION

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

ISSUE DATES

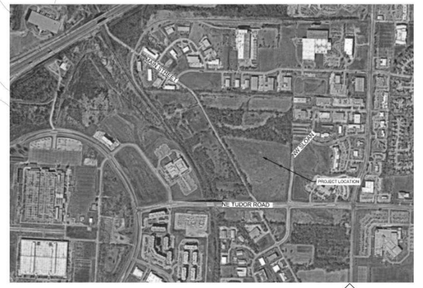
PERMIT SET	02.18.22
1 TENANT IMPROVEMENT	09.07.22

210300

FP0.0

SYSTEM NOTES

ALL UNDERGROUND PIPING AND APPURTENANCES WILL BE PROVIDED BY OTHERS



VICINITY SITE MAP
N.T.S.

TEST HYDRANT 1

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

HYDRANT #3

HYDRANT #2
250 GPM HOSE FLOW
FROM SYSTEMS 05-06 & 08

YARD HYDRANT (#1)
WITHIN 100'-0 FROM FDC

LEAD IN LOCATION
FEEDING SYSTEMS 05-06

PUMP ROOM w/ ELECTRIC PUMP,
FDC, AND TEST HEADER

LEAD IN LOCATIONS
FEEDING FIRE PUMP AND
UNDERGROUND FIRE LOOP

LEAD IN LOCATION
FEEDING SYSTEMS 08-09

LEAD IN LOCATION
FEEDING SYSTEMS 01-02

PROPOSED WAREHOUSE
433,364 SQFT.
991 FFE

HYDRANT #4
250 GPM HOSE FLOW
FROM SYSTEMS 01-04

LEAD IN LOCATION
FEEDING SYSTEMS 03-04

LEAD IN LOCATION
FEEDING SYSTEM 07

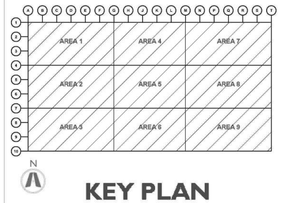
LEAD IN LOCATION
FEEDING SYSTEMS 10-11

HYDRANT #6
250 GPM HOSE FLOW
FROM SYSTEMS 09-11

HYDRANT #5
250 GPM HOSE FLOW
FROM SYSTEMS 07

HYDRANT #3

HYDRAULIC SITE PLAN
SCALE: 1" = 40'-0"



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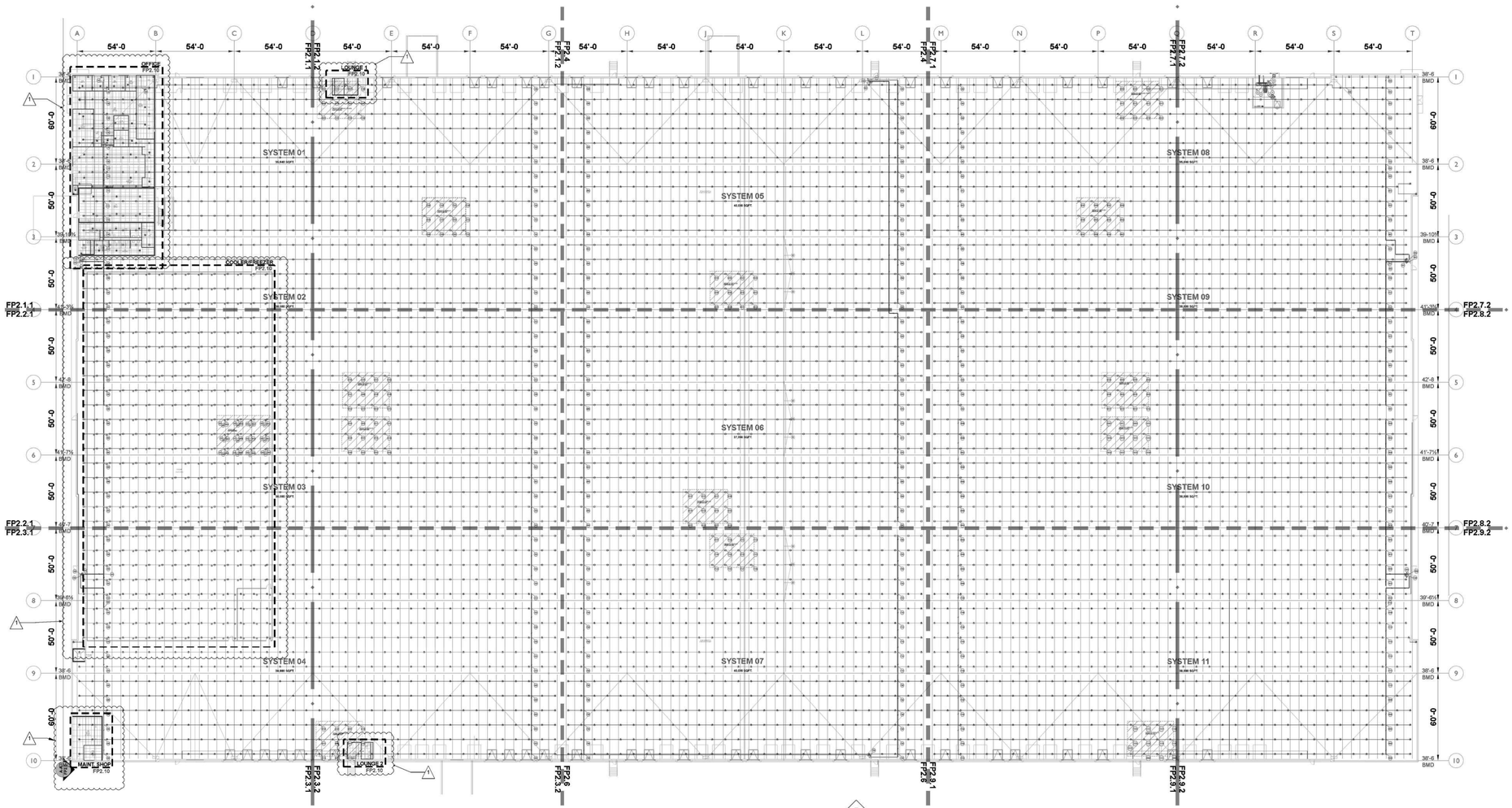
ISSUE DATES	
PERMIT SET	02.18.22
1 TENANT IMPROVEMENT	09.07.22

210300

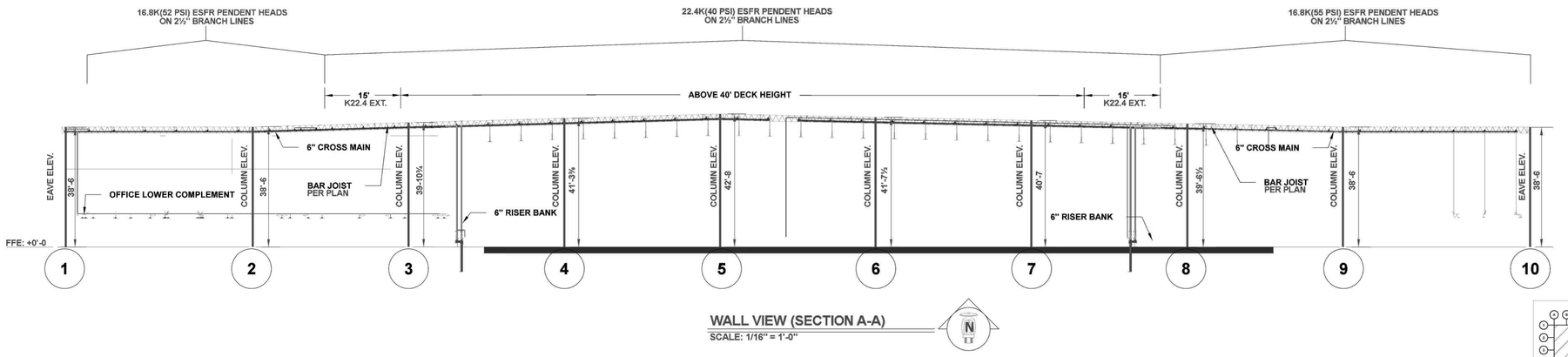
FP1.0

HYDRAULIC SITE PLAN



OVERHEAD PIPING

SCALE: 1" = 30'-0"



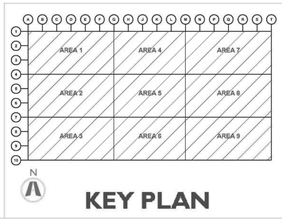
WALL VIEW (SECTION A-A)

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

Sprinkler Legend

SYMBOL	QUANTITY	MANUFACTURER	SIN	MODEL	K-FACTOR	TYPE	SIZE	RESPONSE	FINISH	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



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09/07/22

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BUILDING A LOT 1

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

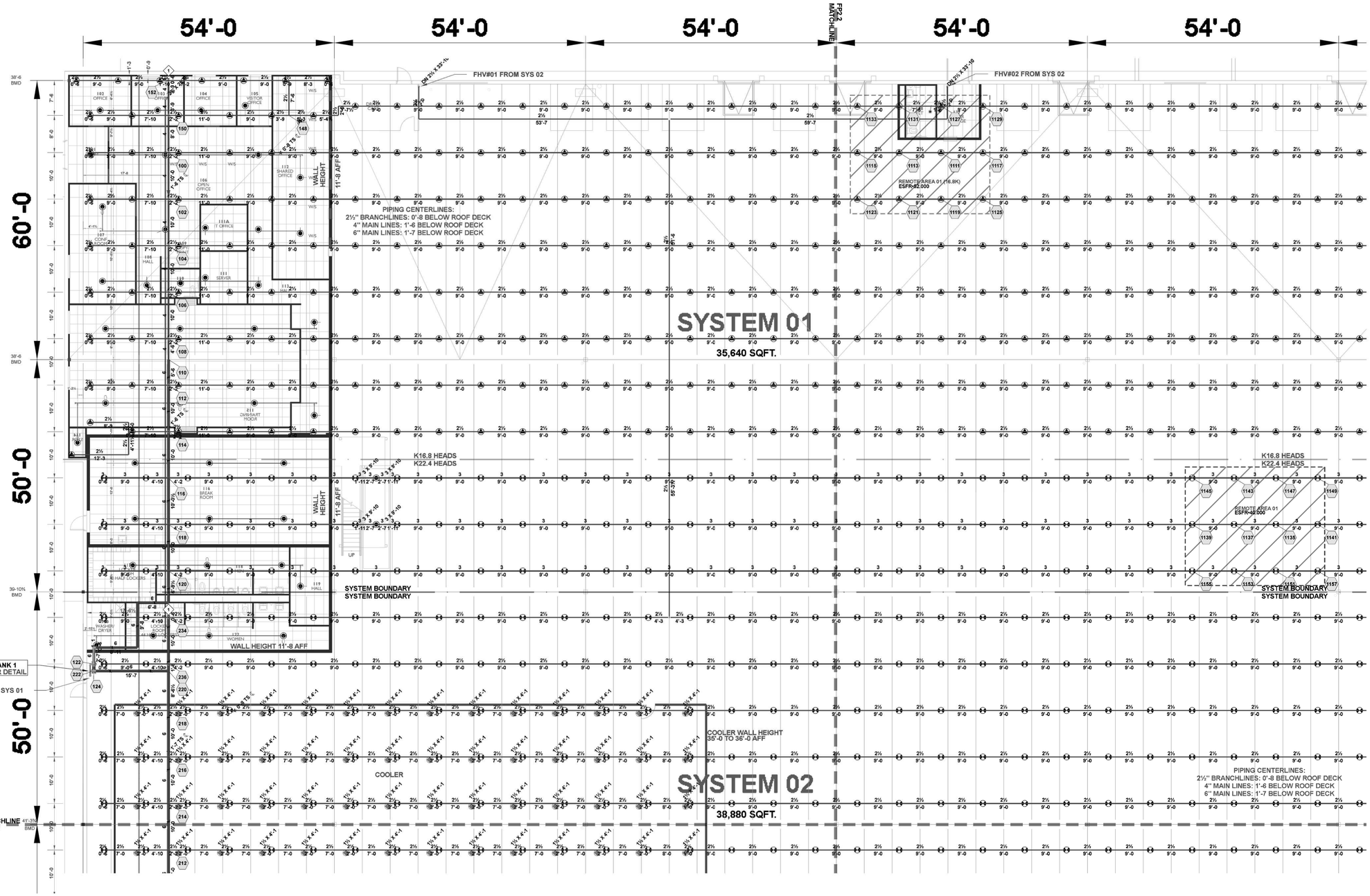
ISSUE DATES

	PERMIT SET	02.18.22
1	TENANT IMPROVEMENT	09.07.22

210300

FP2.0

OVERHEAD PIPING LAYOUT



Hydraulic Information	
Remote Area 01 (K16.8)	
OCCUPANCY CLASSIFICATION	ESFR
MIN. END HEAD PRESSURE	52.000 (ESFR)
TOTAL HOSE STREAMS	250.00
TOTAL HEADS FLOWING	12
K-FACTOR	16.8
TOTAL WATER REQUIRED	1711.60
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"

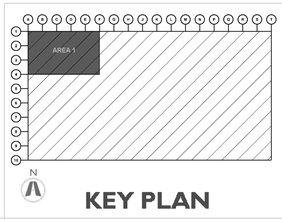
Sprinkler Legend

SYMBOL	QUANTITY	MANUFACTURER	SIN	MODEL	K-FACTOR	TYPE	SIZE	RESPONSE	FINISH	TEMPERATURE	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

① - AUXILIARY DRAIN SEE FP0.0 FOR DETAIL

② - AIR VENT SEE FP0.0 FOR DETAIL



KEY PLAN

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

SCANNELL PROPERTIES

CERTIFICATION

STATE OF MISSOURI
MICHELLE A. LOPEZ
NUMBER PE-2022007904
PROFESSIONAL ENGINEER
09/07/22

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING A LOT 1

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

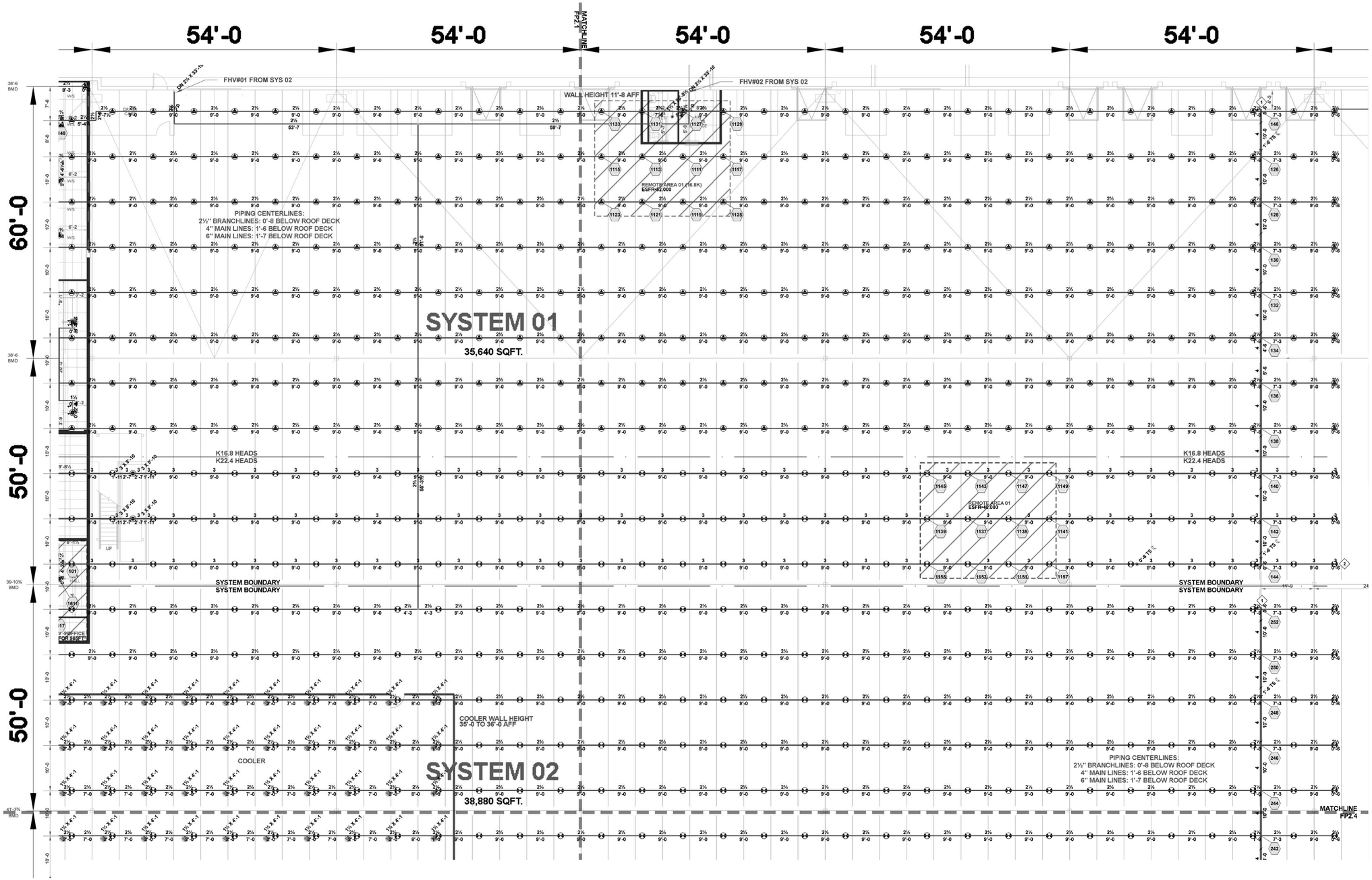
ISSUE DATES

PERMIT SET	02.18.22
1 TENANT IMPROVEMENT	09.07.22

210300

FP2.1.1

AREA 1: SYSTEMS 01-02



Hydraulic Information	
Remote Area 01 (K16.8)	
OCCUPANCY CLASSIFICATION	ESFR
MIN. END HEAD PRESSURE	52.000 (ESFR)
TOTAL HOSE STREAMS	250.00
TOTAL HEADS FLOWING	12
K-FACTOR	16.8
TOTAL WATER REQUIRED	1711.60
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 (CONT.): SYSTEMS 01-02

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

Sprinkler Legend											
SYMBOL	QUANTITY	MANUFACTURER	SIN	MODEL	K-FACTOR	TYPE	SIZE	RESPONSE	FINISH	TEMPERATURE	NOTE
▲	2054	VICTAULIC	V4702	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										

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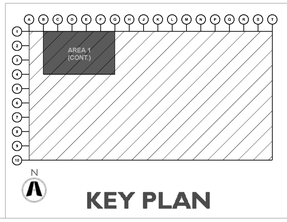
① - AUXILIARY DRAIN
SEE FP0.0 FOR DETAIL

② - AIR VENT
SEE FP0.0 FOR DETAIL



KEY PLAN

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ARCHITECTURE
5719 LAWTON LOOP E. DR. #212
INDIANAPOLIS, IN 46216
O :: 317 . 288 . 0681
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PROJECT INFORMATION

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BUILDING A LOT 1

NW CORNER OF
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LEE'S SUMMIT, MO 64086

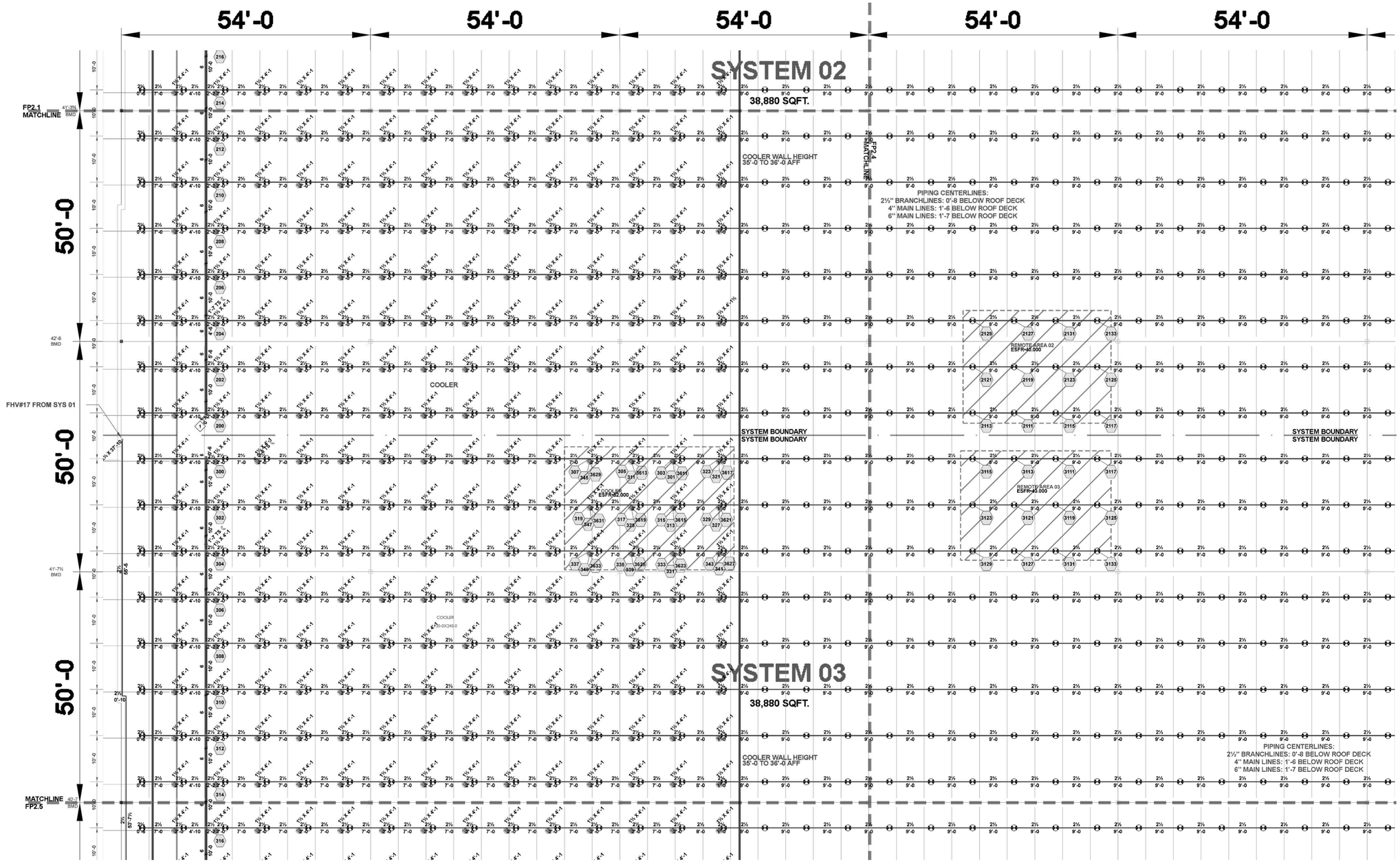
ISSUE DATES

	PERMIT SET	02.18.22
1	TENANT IMPROVEMENT	09.07.22

210300

FP2.1.2

AREA 1 (CONT.):
SYSTEMS 01-02



Hydraulic Information	
Remote Area 02	
OCCUPANCY CLASSIFICATION	ESFR
MIN. END HEAD PRESSURE	40.000 (ESFR)
TOTAL HOSE STREAMS	250.00
TOTAL HEADS FLOWING	12
K-FACTOR	22.4
TOTAL WATER REQUIRED	1956.70
TOTAL PRESSURE REQUIRED	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: SYSTEMS 02-03

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

Sprinkler Legend

SYMBOL	QUANTITY	MANUFACTURER	SIN	MODEL	K-FACTOR	TYPE	SIZE	RESPONSE	FINISH	TEMPERATURE	NOTE
▲	2054	VICTAULIC	V4702	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										

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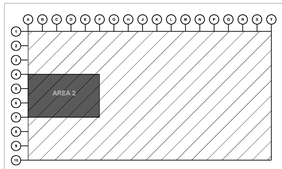
2 - AIR VENT SEE FP0.0 FOR DETAIL



KEY PLAN

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

CERTIFICATION

STATE OF MISSOURI
MICHELLE A. LOPEZ
NUMBER PE-2022007904
PROFESSIONAL ENGINEER
09/07/22

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING A LOT 1

NW CORNER OF
NE TUDOR RD & MAIN ST
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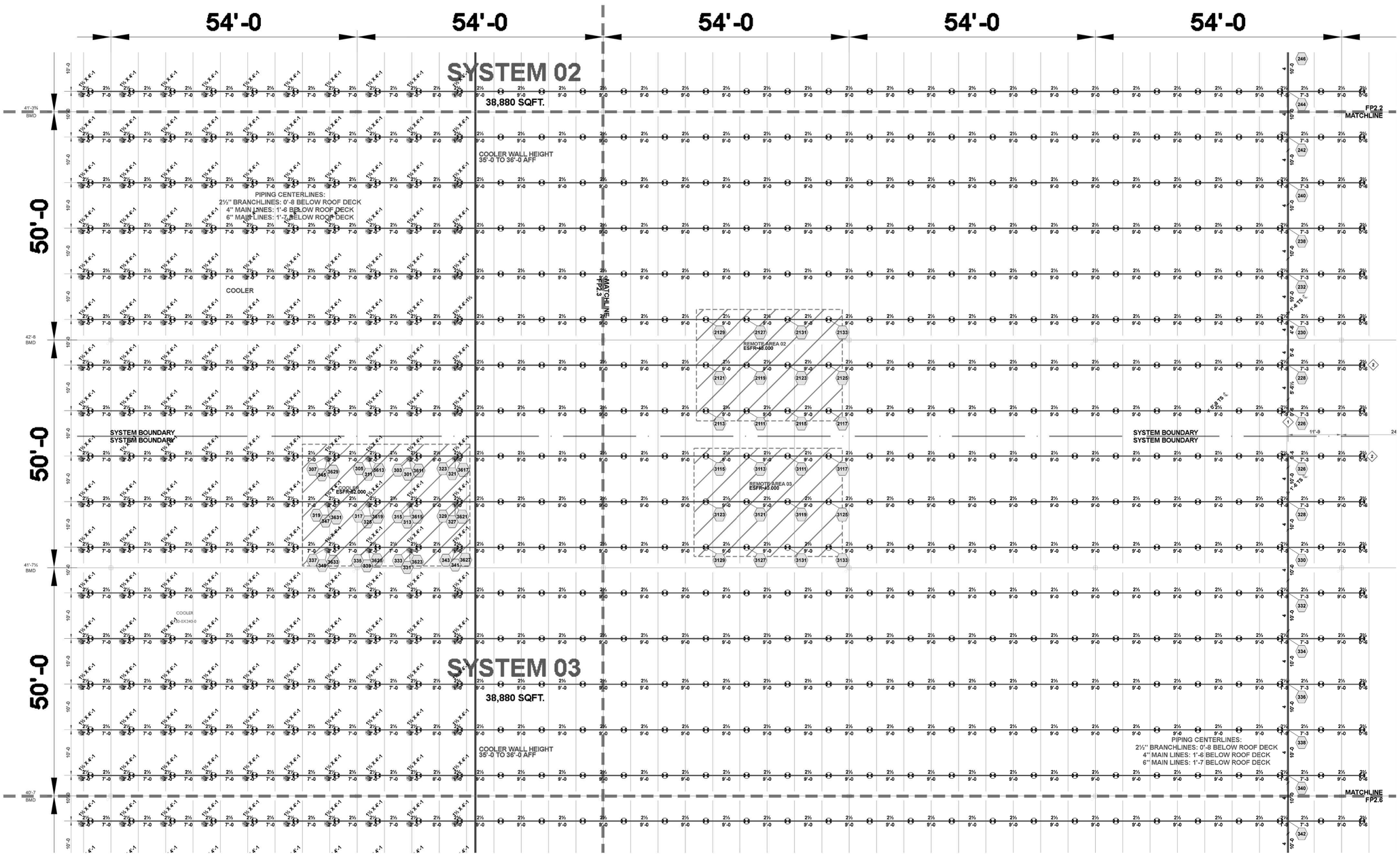
ISSUE DATES

	PERMIT SET	02.18.22
1	TENANT IMPROVEMENT	09.07.22

210300

FP2.2.1

AREA 2: SYSTEM 02-03



Hydraulic Information	
Remote Area 02	
OCCUPANCY CLASSIFICATION	ESFR
MIN. END HEAD PRESSURE	40.000 (ESFR)
TOTAL HOSE STREAMS	250.00
TOTAL HEADS FLOWING	12
K-FACTOR	22.4
TOTAL WATER REQUIRED	1956.70
TOTAL PRESSURE REQUIRED	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"

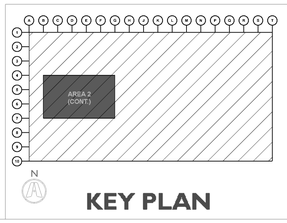
**JOIST BRIDGING ROWS CANNOT BE ERECTED WITHIN OF 1'-6 OF ANY SURROUNDING ESFR BRANCH LINE CENTERLINE

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										

① - AUXILIARY DRAIN
SEE FP0.0 FOR DETAIL

② - AIR VENT
SEE FP0.0 FOR DETAIL



KEY PLAN

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5719 LAWTON LOOP E. DR. #212
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O :: 317 . 288 . 0681
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09/07/22

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS
BUILDING A LOT 1

NW CORNER OF
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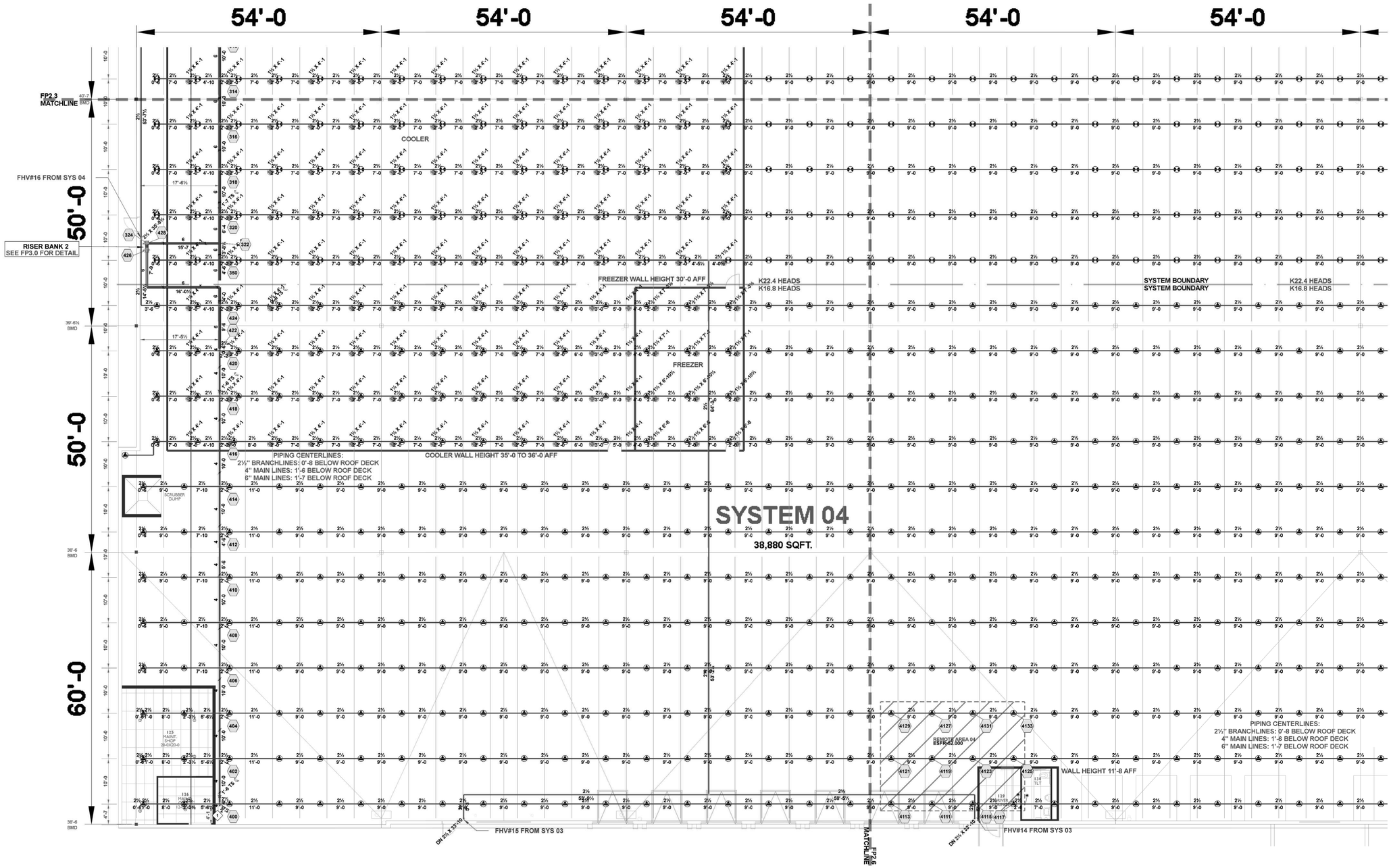
ISSUE DATES

	PERMIT SET	02.18.22
1	TENANT IMPROVEMENT	09.07.22

210300

FP2.2.2

AREA 2(CONT):
SYSTEMS 02-03



Hydraulic Information

Remote Area 04	
OCCUPANCY CLASSIFICATION	ESFR
MIN. END HEAD PRESSURE	52.000 (ESFR)
TOTAL HOSE STREAMS	250.00
TOTAL HEADS FLOWING	12
K-FACTOR	16.8
TOTAL WATER REQUIRED	1708.55
TOTAL PRESSURE REQUIRED	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										

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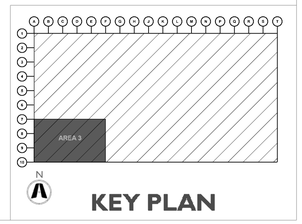
② - AIR VENT SEE FP0.0 FOR DETAIL



KEY PLAN

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

SCANNELL PROPERTIES

CERTIFICATION

STATE OF MISSOURI
MICHELLE A. LOPEZ
NUMBER PE-2022007904
PROFESSIONAL ENGINEER
09/07/22

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS
BUILDING A LOT 1

NW CORNER OF
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LEE'S SUMMIT, MO 64086

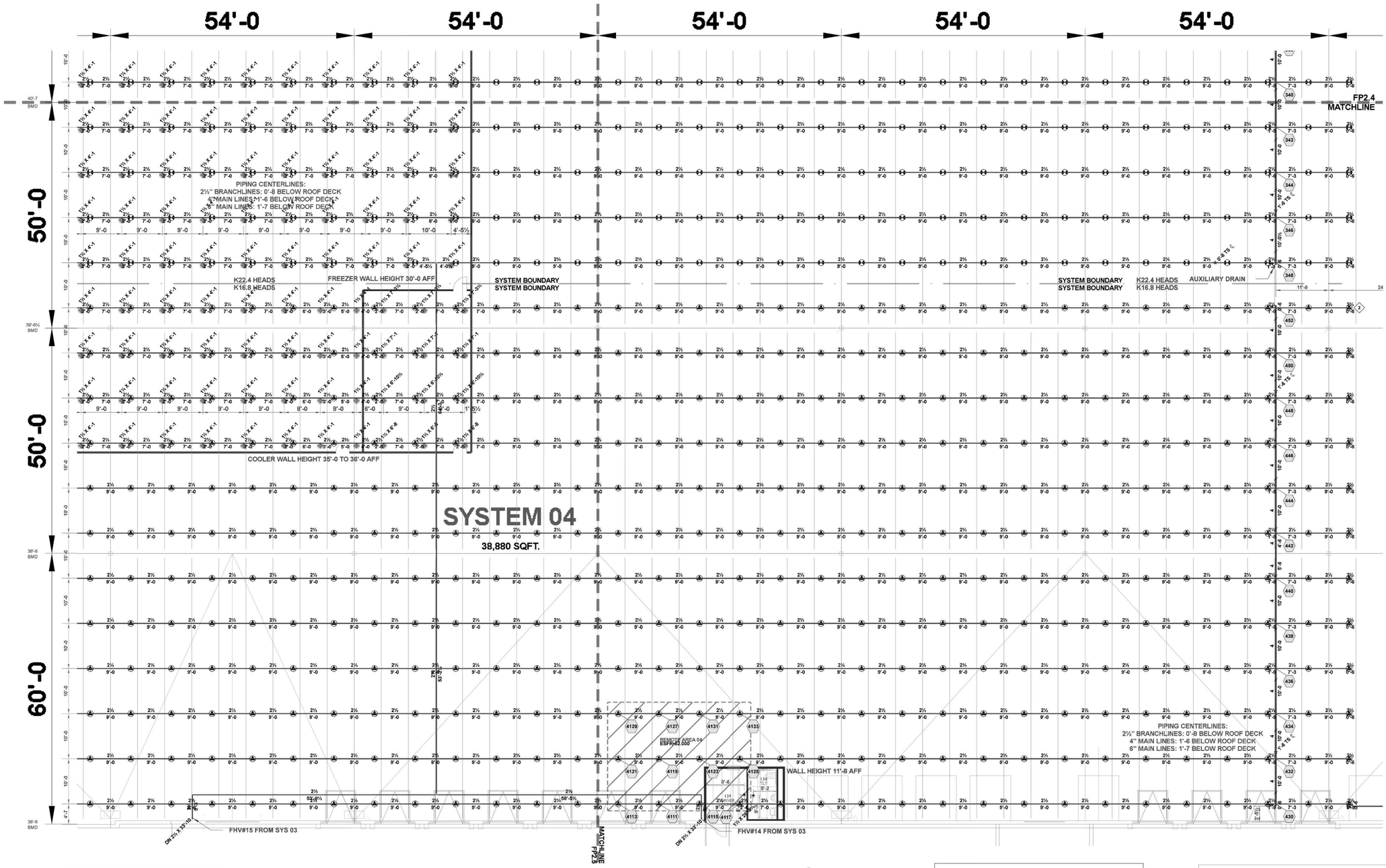
ISSUE DATES

PERMIT SET	02.18.22
⚠1 TENANT IMPROVEMENT	09.07.22

210300

FP2.3.1

AREA 3: SYSTEMS
03-04



AREA 3(CONT.): SYSTEMS 03-04

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

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%)

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										

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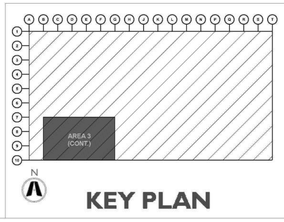

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O :: 317 . 288 . 0681
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MICHELLE A. LOPEZ
NUMBER PE-2022007904
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09/07/22

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING A LOT 1

NW CORNER OF
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LEE'S SUMMIT, MO 64086

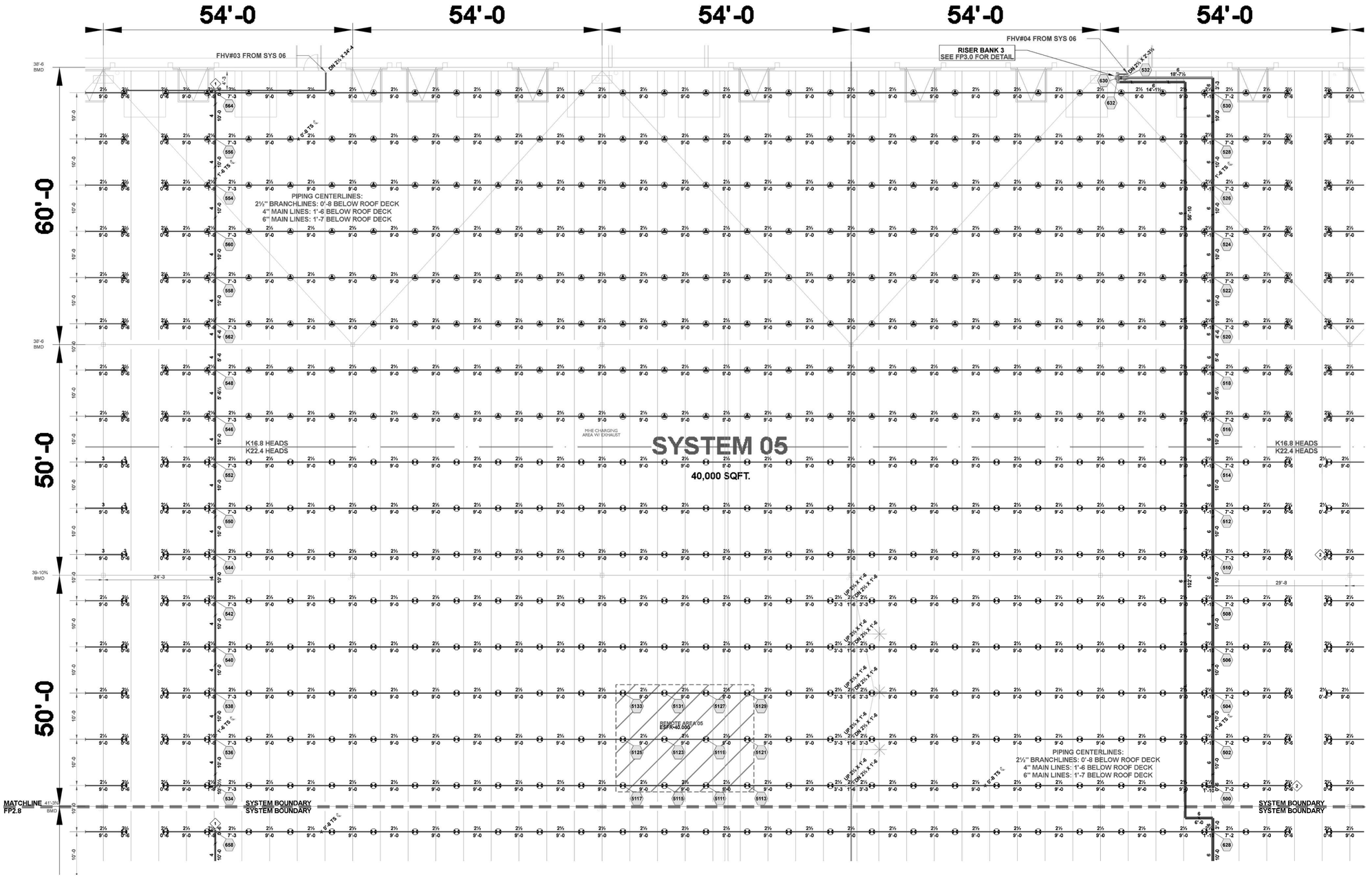
ISSUE DATES

PERMIT SET	02.18.22
1 TENANT IMPROVEMENT	09.07.22

210300

FP2.3.2

AREA 3(CONT.):
SYSTEMS 03-04



Hydraulic Information	
Remote Area 05	
OCCUPANCY CLASSIFICATION	ESFR
MIN. END HEAD PRESSURE	40.000 (ESFR)
TOTAL HOSE STREAMS	250.00
TOTAL HEADS FLOWING	12
K-FACTOR	22.4
TOTAL WATER REQUIRED	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	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										

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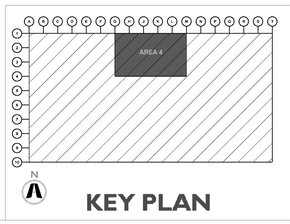
② - AIR VENT SEE FP0.0 FOR DETAIL



KEY PLAN

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O :: 317 . 288 . 0681
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SCANNELL PROPERTIES

CERTIFICATION

STATE OF MISSOURI
MICHELLE A. LOPEZ
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PROFESSIONAL ENGINEER
09/07/22

PROJECT INFORMATION

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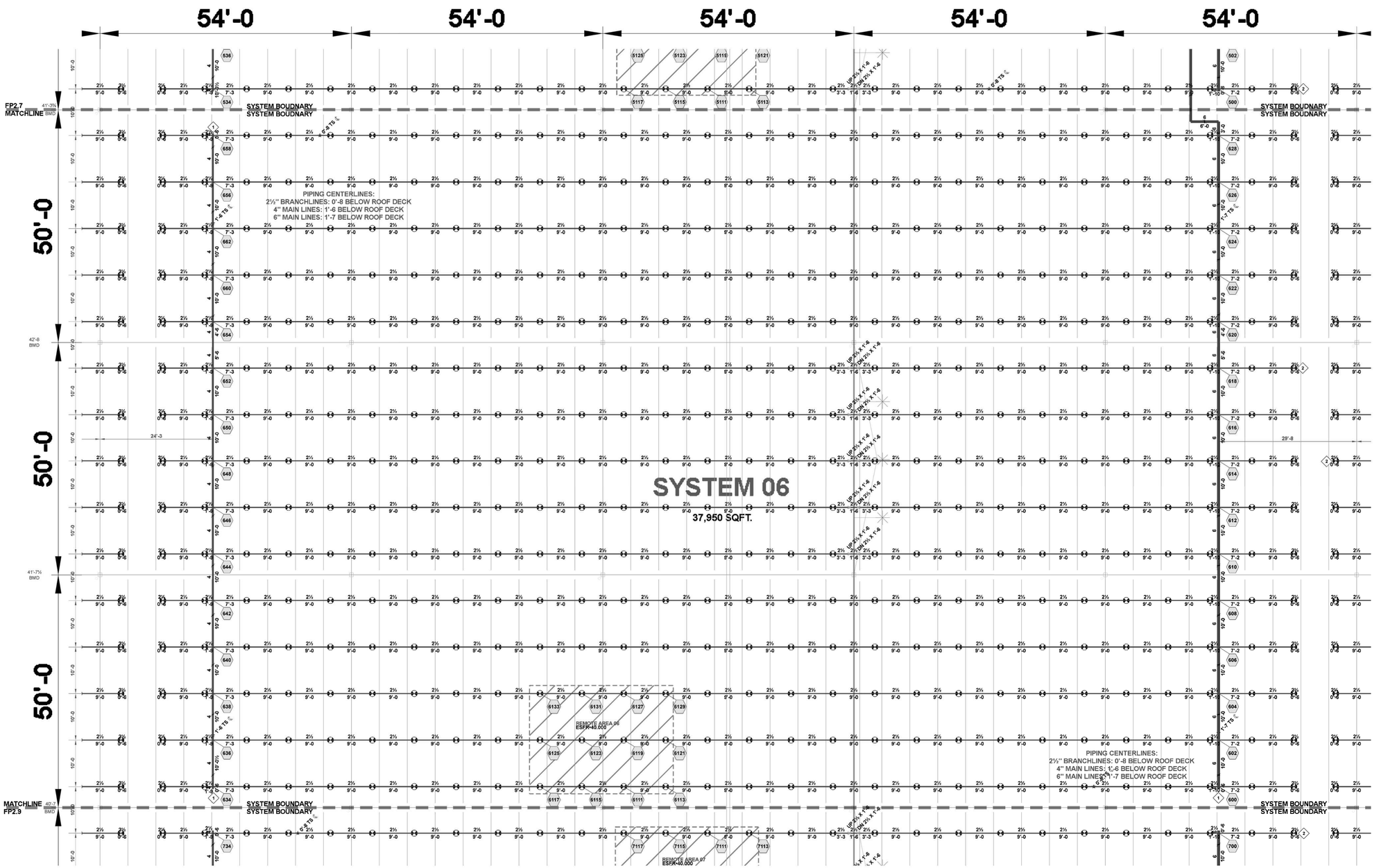
ISSUE DATES

PERMIT SET	02.18.22
⚠1 TENANT IMPROVEMENT	09.07.22

210300

FP2.4

AREA 4: SYSTEM 05



Hydraulic Information

Remote Area 06	
OCCUPANCY CLASSIFICATION	ESFR
MIN. END HEAD PRESSURE	40.000 (ESFR)
TOTAL HOSE STREAMS	250.00
TOTAL HEADS FLOWING	12
K-FACTOR	22.4
TOTAL WATER REQUIRED	1956.47
TOTAL PRESSURE REQUIRED	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										

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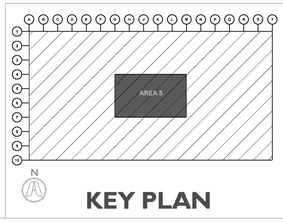
② - AIR VENT SEE FP0.0 FOR DETAIL



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SCANNELL PROPERTIES

CERTIFICATION

STATE OF MISSOURI
MICHELLE A. LOPEZ
NUMBER PE-2022007904
PROFESSIONAL ENGINEER
09/07/22

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING A LOT 1

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

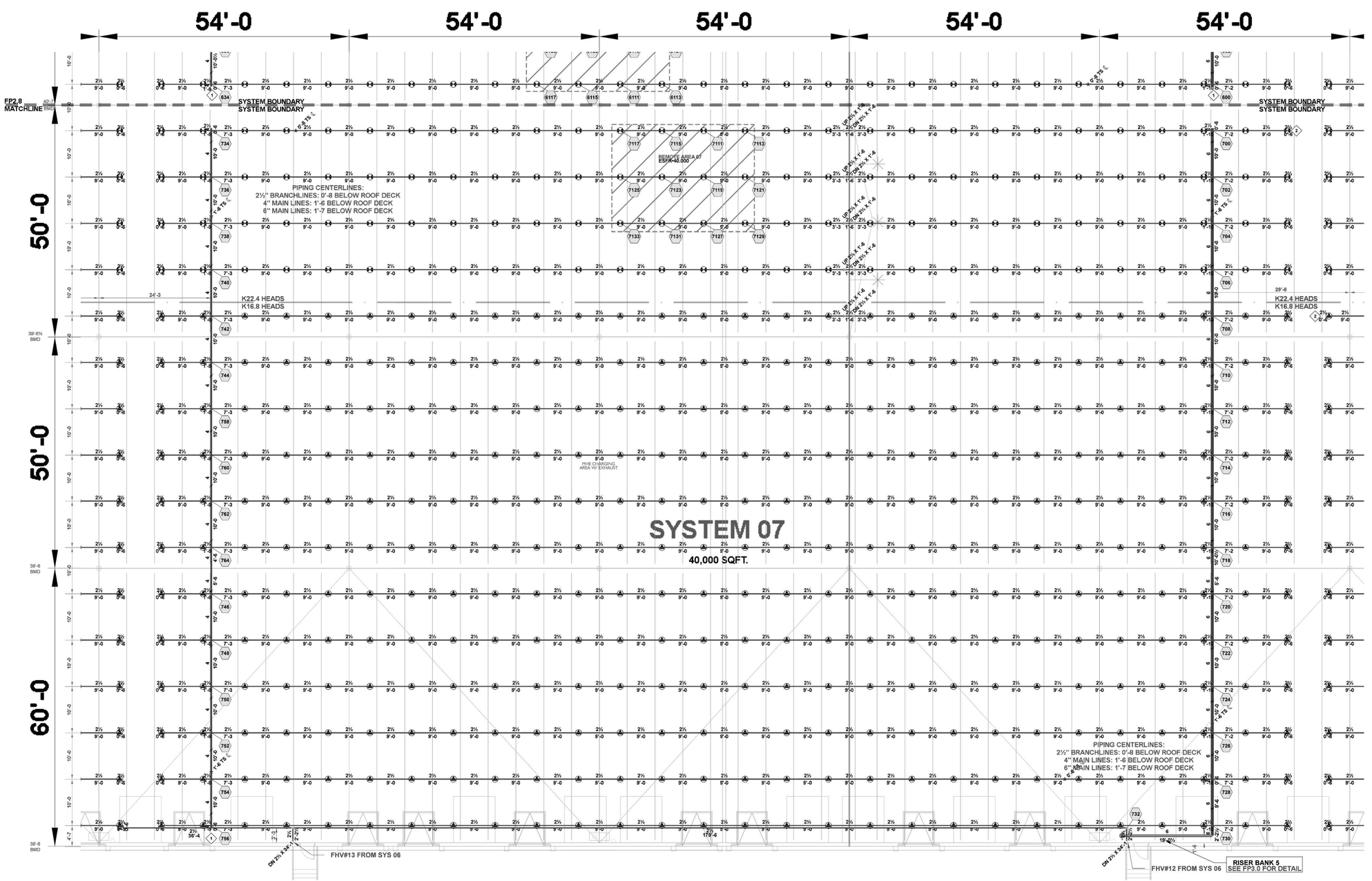
ISSUE DATES

PERMIT SET	02.18.22
1 TENANT IMPROVEMENT	09.07.22

210300

FP2.5

AREA 5: SYSTEM 06



Hydraulic Information	
Remote Area 07	
OCCUPANCY CLASSIFICATION	ESFR
MIN. END HEAD PRESSURE	40.000 (ESFR)
TOTAL HOSE STREAMS	250.00
TOTAL HEADS FLOWING	12
K-FACTOR	22.4
TOTAL WATER REQUIRED	1958.72
TOTAL PRESSURE REQUIRED	74.363
BASE OF RISER (GPM)	1958.72
BASE OF RISER (PSI)	74.363
SAFETY MARGIN (PSI)	+13.116 (15.0%)

AREA 6: SYSTEM 07

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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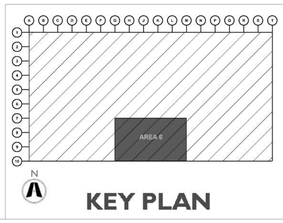
2 - AIR VENT SEE FP0.0 FOR DETAIL



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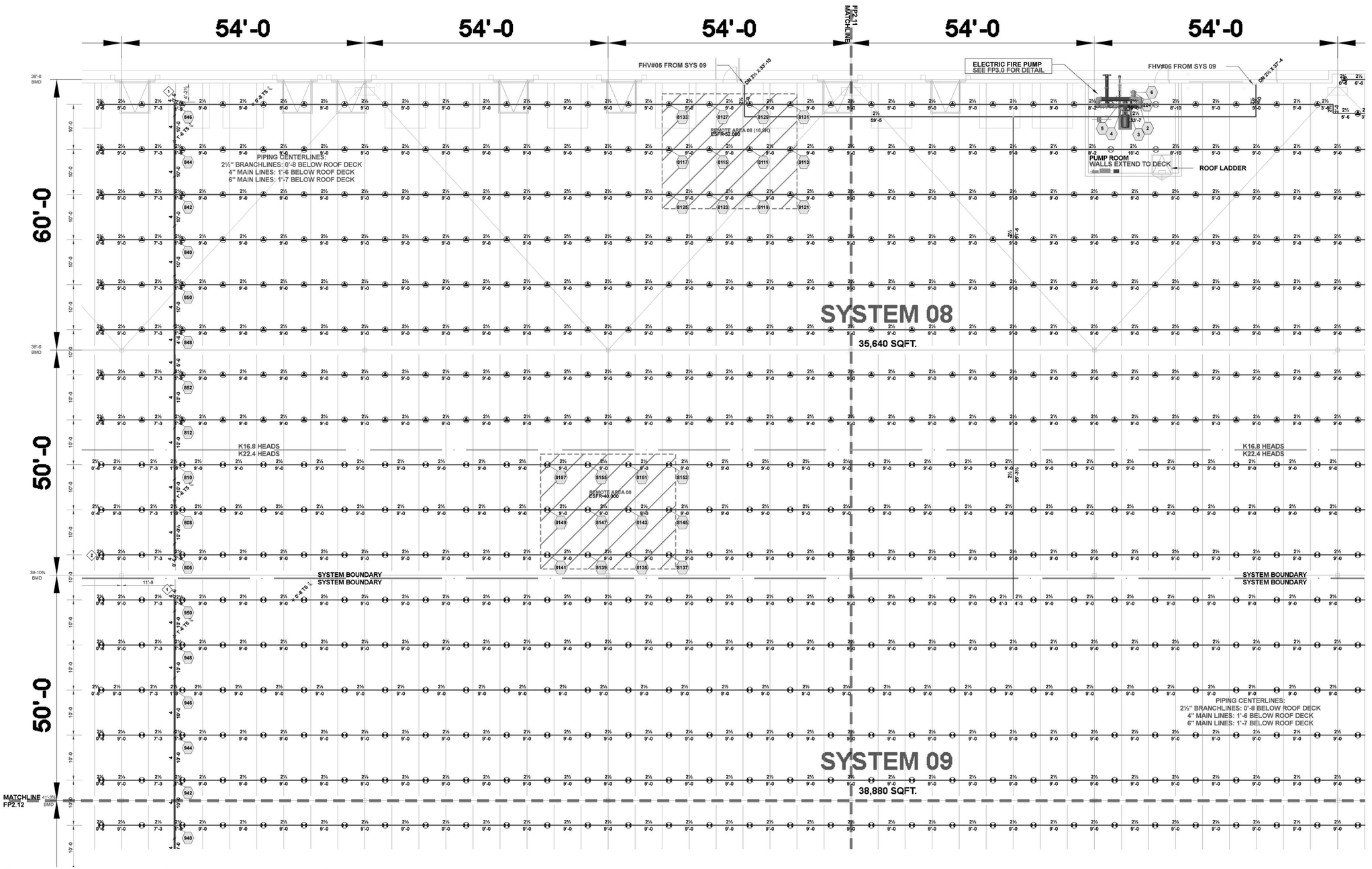
210300

FP2.6

AREA 6: SYSTEM 07



Hydraulic Information	
Remote Area 08 (K16.8)	
OCCUPANCY CLASSIFICATION	ESFR
MIN. END HEAD PRESSURE	52.000 (ESFR)
TOTAL HOSE STREAMS	250.00
TOTAL HEADS FLOWING	12
K-FACTOR	16.8
TOTAL WATER REQUIRED	1711.62
TOTAL PRESSURE REQUIRED	73.476
BASE OF RISER (GPM)	1711.62
BASE OF RISER (PSI)	73.476
SAFETY MARGIN (PSI)	+16.104 (18.0%)

Hydraulic Information	
Remote Area 08	
OCCUPANCY CLASSIFICATION	ESFR
MIN. END HEAD PRESSURE	40.000 (ESFR)
TOTAL HOSE STREAMS	250.00
TOTAL HEADS FLOWING	12
K-FACTOR	22.4
TOTAL WATER REQUIRED	1956.80
TOTAL PRESSURE REQUIRED	81.616
BASE OF RISER (GPM)	1956.80
BASE OF RISER (PSI)	81.616
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	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										

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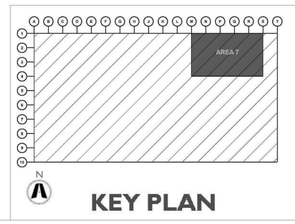

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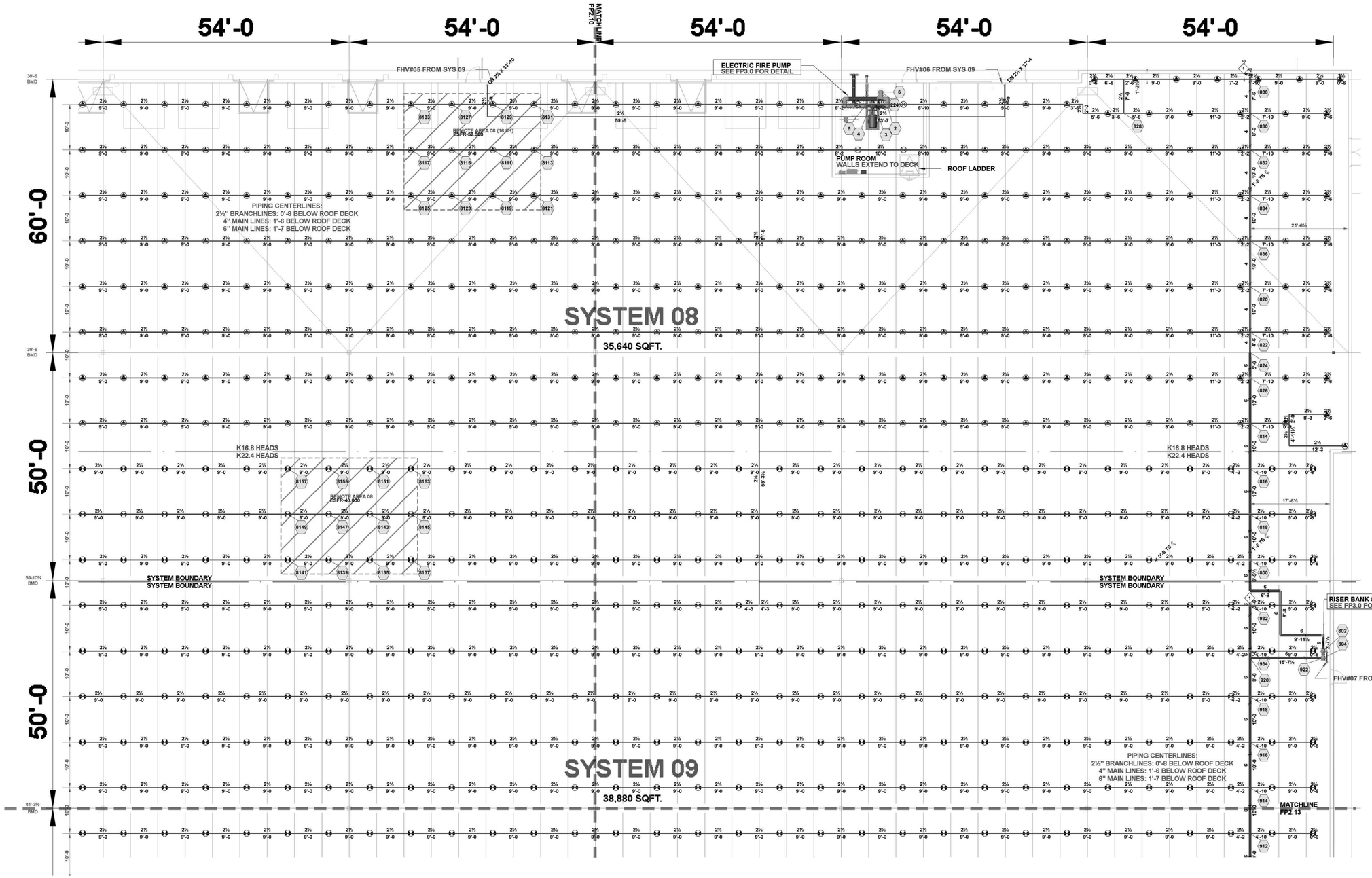
FP2.7.1

AREA 7: SYSTEMS 08-09



Hydraulic Information	
Remote Area 08 (K16.8)	
OCCUPANCY CLASSIFICATION	ESFR
MIN. END HEAD PRESSURE	52.000 (ESFR)
TOTAL HOSE STREAMS	250.00
TOTAL HEADS FLOWING	12
K-FACTOR	16.8
TOTAL WATER REQUIRED	1711.62
TOTAL PRESSURE REQUIRED	73.476
BASE OF RISER (GPM)	1711.62
BASE OF RISER (PSI)	73.476
SAFETY MARGIN (PSI)	+16.104 (18.0%)

Hydraulic Information	
Remote Area 08	
OCCUPANCY CLASSIFICATION	ESFR
MIN. END HEAD PRESSURE	40.000 (ESFR)
TOTAL HOSE STREAMS	250.00
TOTAL HEADS FLOWING	12
K-FACTOR	22.4
TOTAL WATER REQUIRED	1956.80
TOTAL PRESSURE REQUIRED	81.616
BASE OF RISER (GPM)	1956.80
BASE OF RISER (PSI)	81.616
SAFETY MARGIN (PSI)	+5.880 (6.7%)

AREA 7(CONT): SYSTEMS 08-09

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

Sprinkler Legend

SYMBOL	QUANTITY	MANUFACTURER	SIN	MODEL	K-FACTOR	TYPE	SIZE	RESPONSE	FINISH	TEMPERATURE	NOTE
▲	2054	VICTAULIC	V4702	FL-QR/ST/ESFR	16.8	PENDENT	¾	FAST	BRASS	200°F	
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◆◆	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	
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	TOTAL = 5234										

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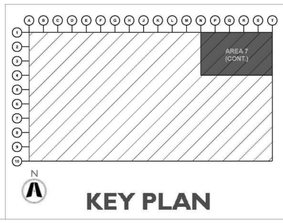

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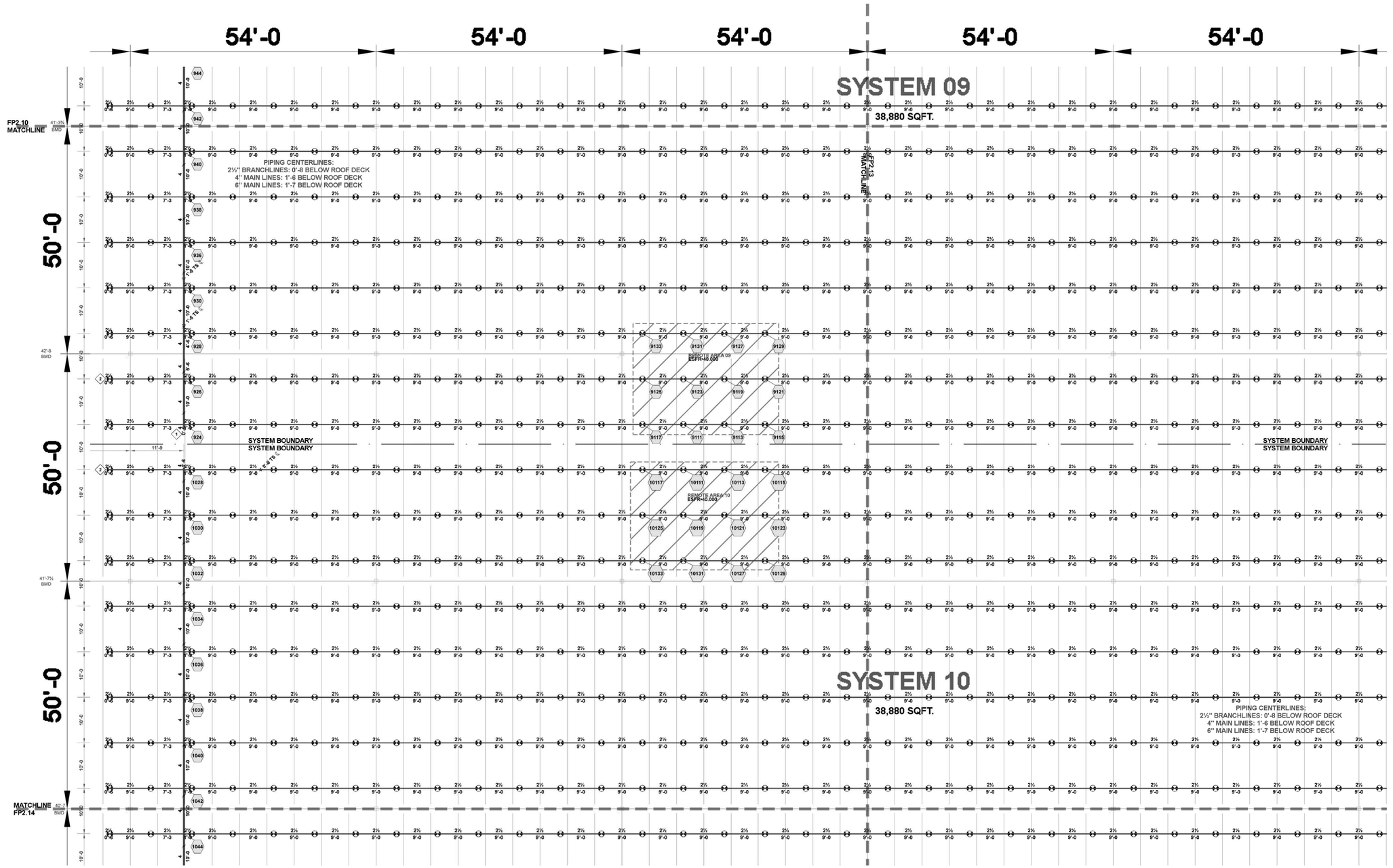
FP2.7.2

AREA 7(CONT): SYSTEMS 08-09



AREA 8: SYSTEMS 09-10

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

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

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

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	
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	TOTAL = 5234										

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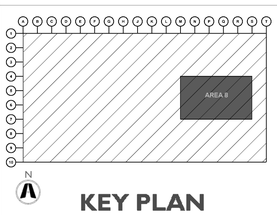

KEY PLAN

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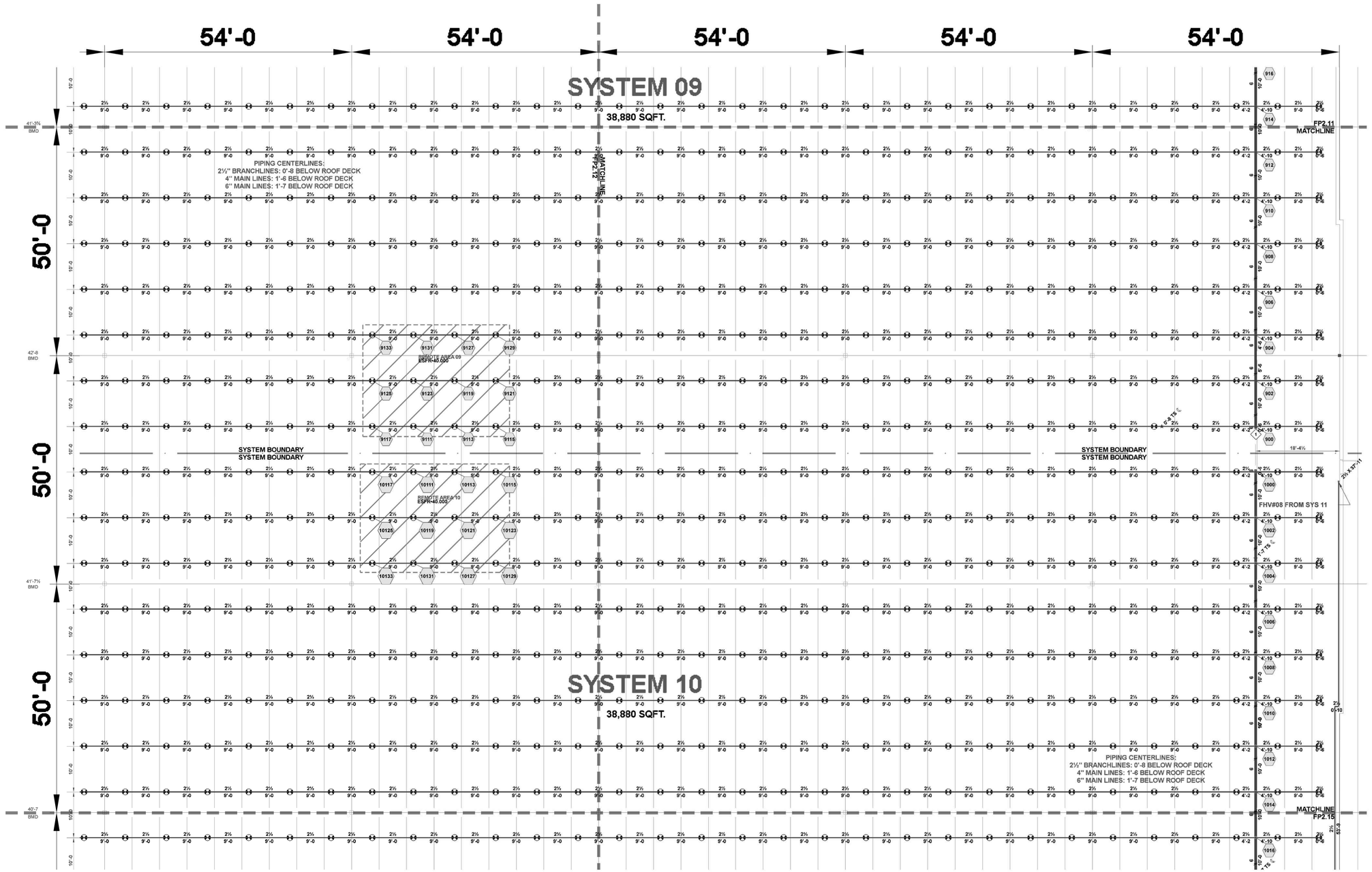
210300

FP2.8.1

AREA 8: SYSTEMS 09-10



Hydraulic Information	
Remote Area 09	
OCCUPANCY CLASSIFICATION	ESFR
MIN. END HEAD PRESSURE	40.000 (ESFR)
TOTAL HOSE STREAMS	250.00
TOTAL HEADS FLOWING	12
K-FACTOR	22.4
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Hydraulic Information	
Remote Area 10	
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BASE OF RISER (PSI)	77.654
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	NOTE
▲	2054	VICTAULIC	V4702	FL-QR/ST/ESFR	16.8	PENDENT	¾	FAST	BRASS	200°F	
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◎	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										

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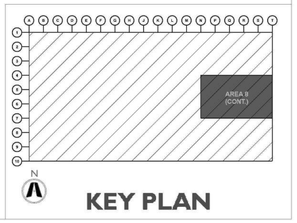

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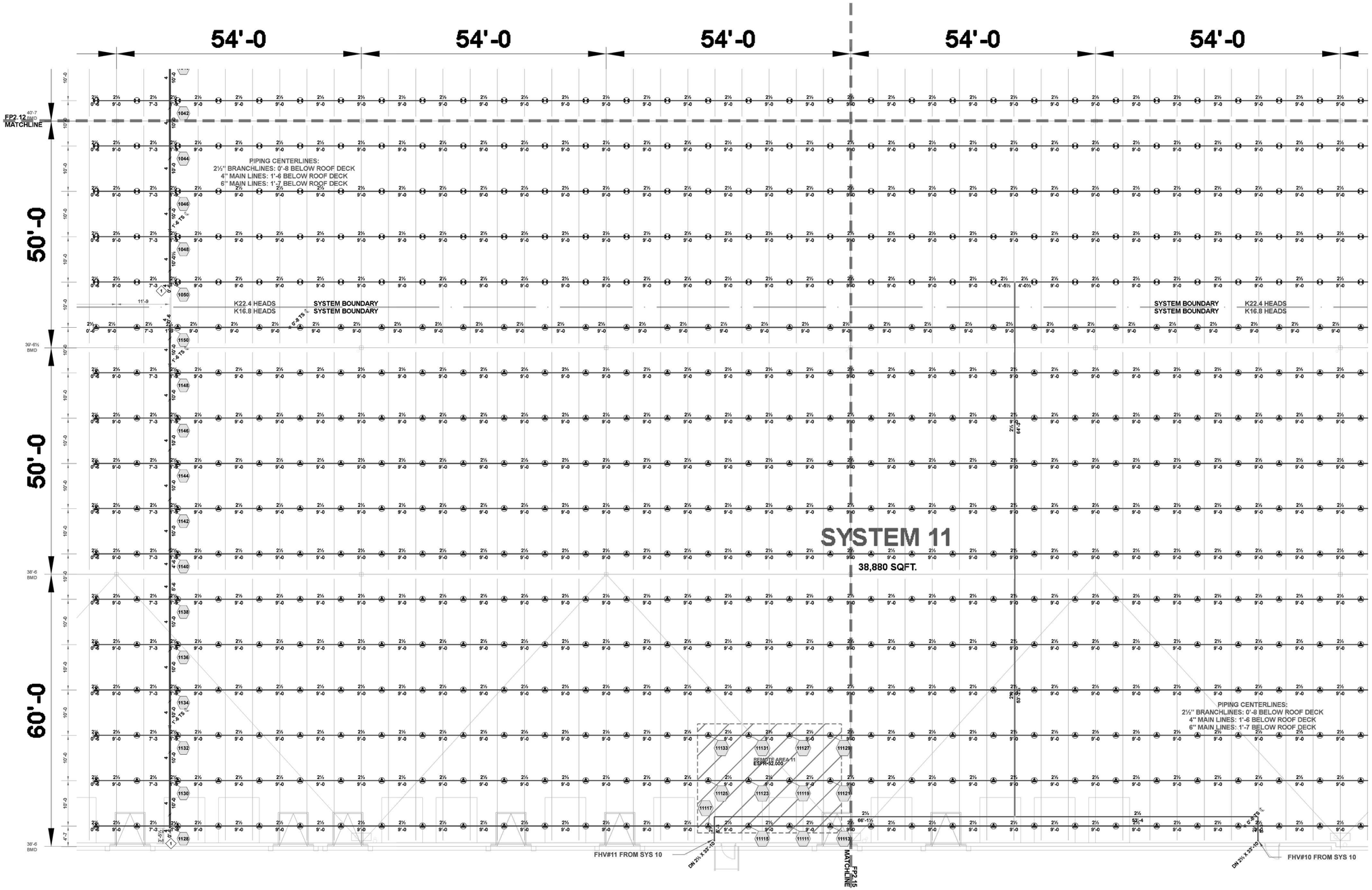
210300

FP2.8.2

AREA 8 (CONT.): SYSTEMS 09-10



AREA 9: SYSTEMS 10-11

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

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

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	
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◗	2754	VICTAULIC	V3428	ESFR	22.4	PENDENT	1	FAST	BRASS	200°F	
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	TOTAL = 5234										

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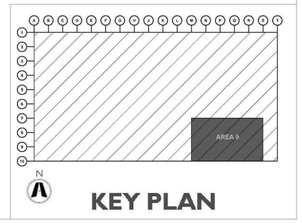

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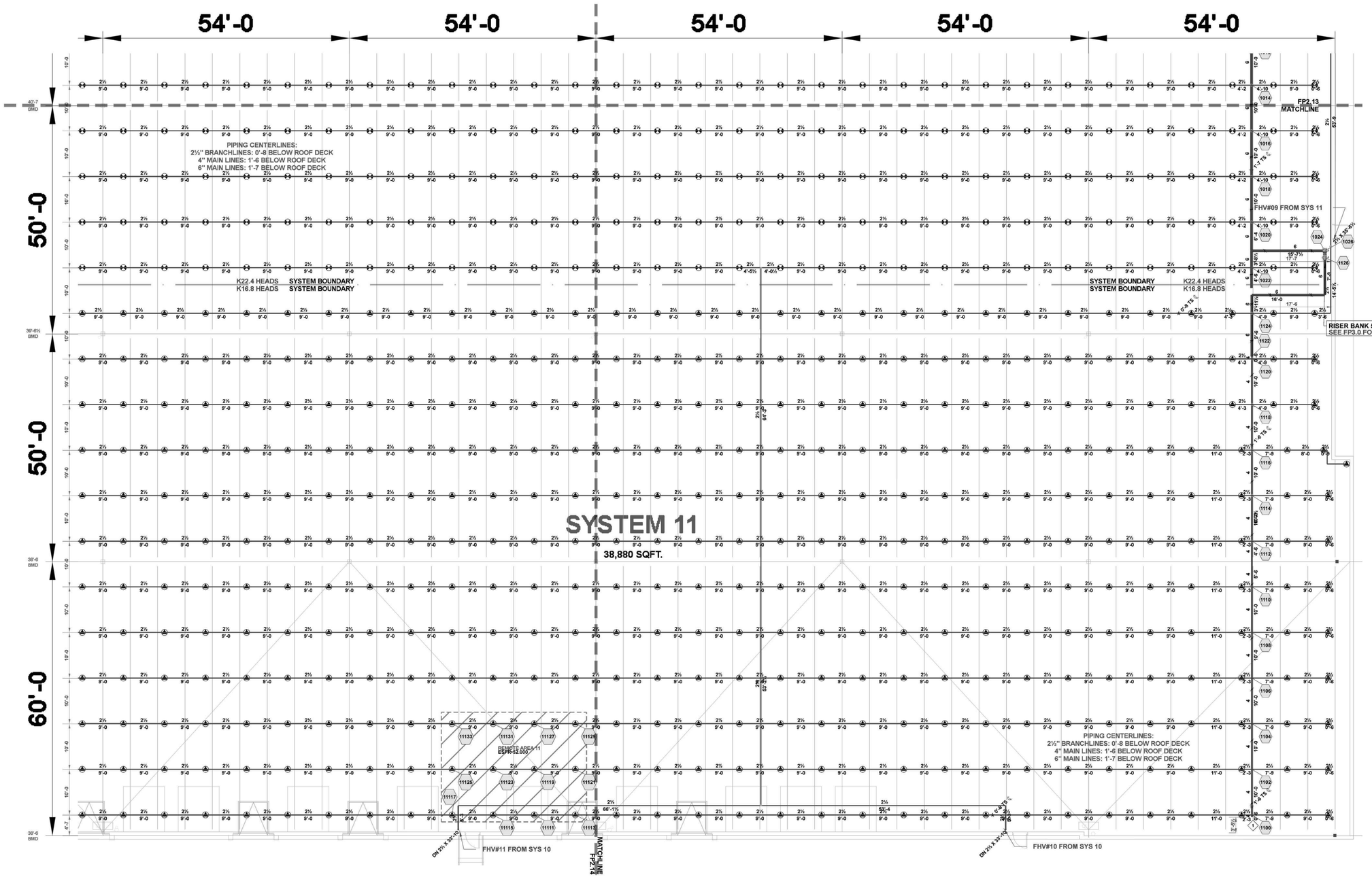
FP2.9.1

AREA 9: 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	NOTE
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	TOTAL = 5234										

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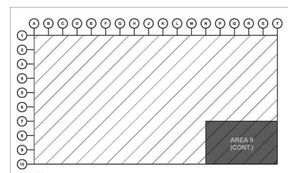

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5719 LAWTON LOOP E. DR. #212
INDIANAPOLIS, IN 46216
O :: 317 . 288 . 0681
F :: 317 . 288 . 0753

SCANNELL PROPERTIES

CERTIFICATION

STATE OF MISSOURI
MICHELLE A. LOPEZ
NUMBER PE-2022007904
PROFESSIONAL ENGINEER
09/07/22

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING A LOT 1

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

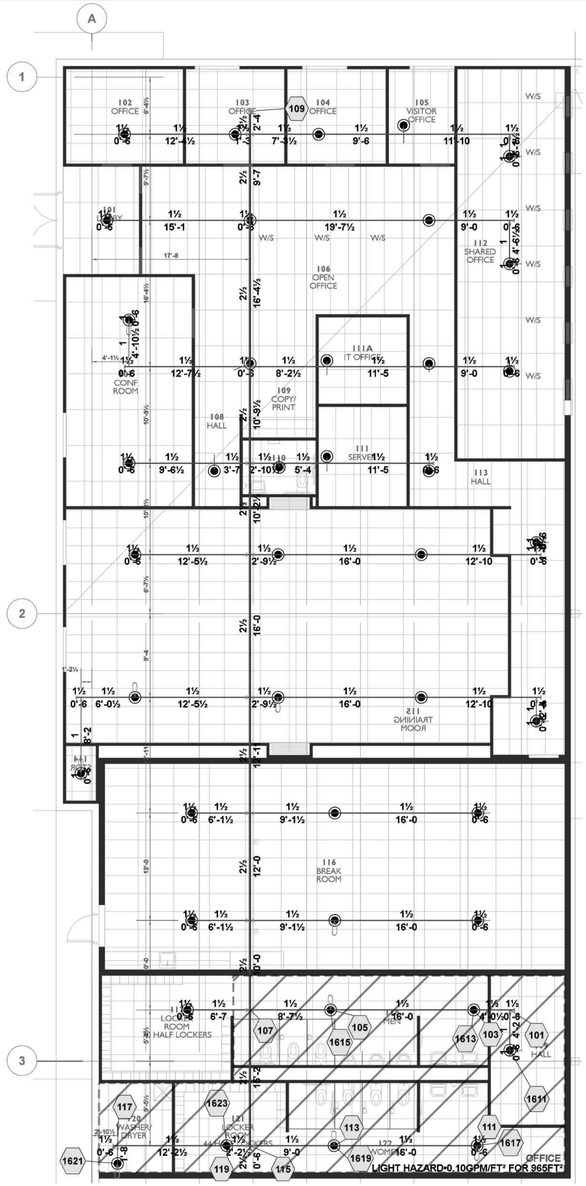
ISSUE DATES

PERMIT SET	02.18.22
1 TENANT IMPROVEMENT	09.07.22

210300

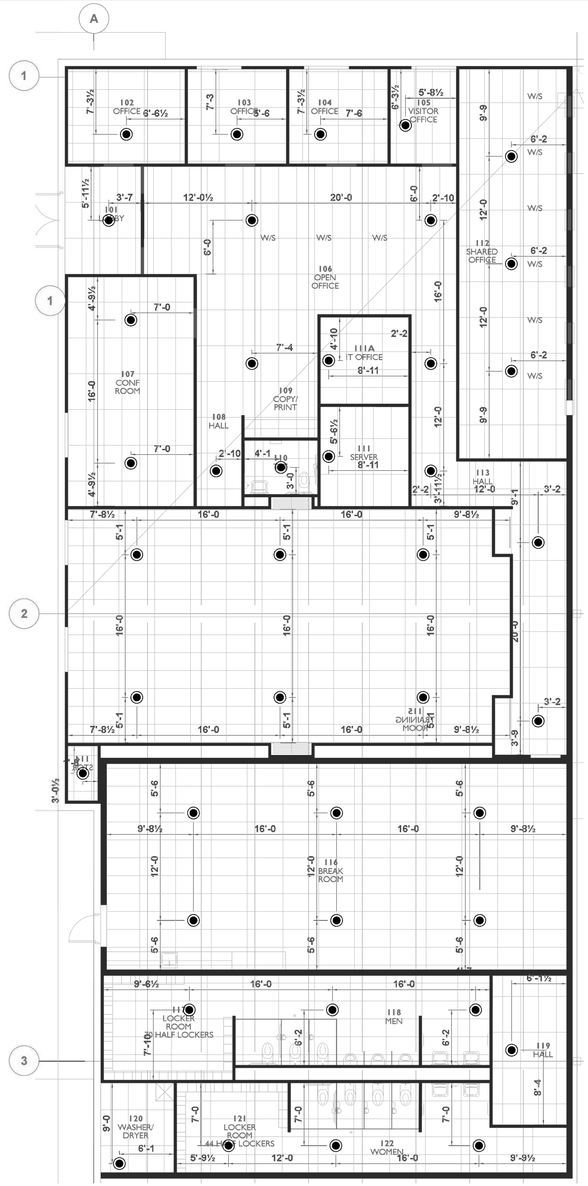
FP2.9.2

AREA 9(CONT.):
SYSTEMS 10-11



OFFICE PIPING LAYOUT

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

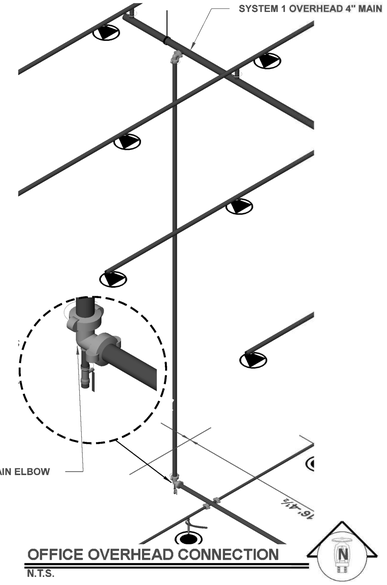


OFFICE SPRINKLER REFLECTED CEILING PLAN

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

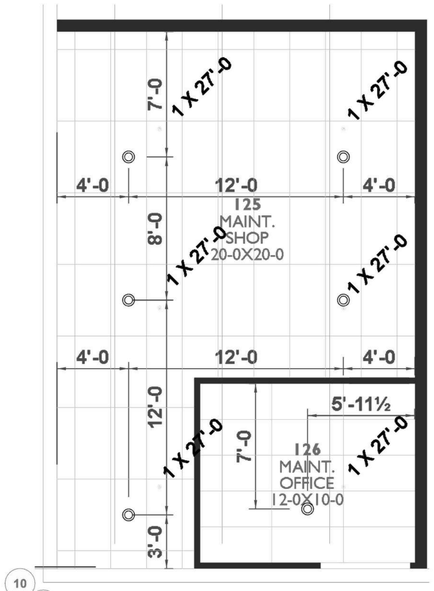
**ACT ELEVATIONS: 9'-8 AFF
**PIPING CENTERLINES: 10'-8 AFF

Hydraulic Information	
Remote Area Office	
OCCUPANCY CLASSIFICATION	LIGHT HAZARD
DENSITY (GPM/FT²)	0.10 FOR 1500FT² (ACTUAL 965FT²)
QUICK RESPONSE REDUCTION	9'-8 CEILING (40.0%) 900FT²
TOTAL HOSE STREAMS	100.00
TOTAL HEADS FLOWING	7
K-FACTOR	5.6
TOTAL WATER REQUIRED	388.74
TOTAL PRESSURE REQUIRED	42.659
BASE OF RISER (GPM)	388.74
BASE OF RISER (PSI)	42.659
SAFETY MARGIN (PSI)	+53.863 (55.8%)



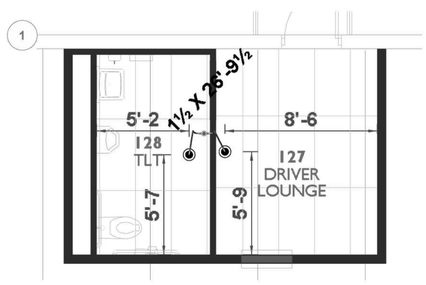
OFFICE OVERHEAD CONNECTION

N.T.S.



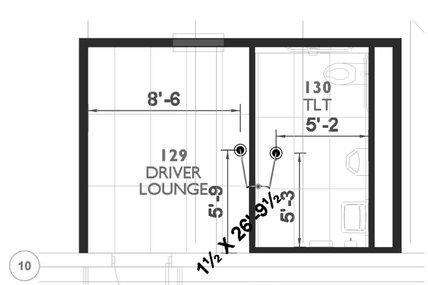
MAINT. SHOP SPRINKLER LAYOUT

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



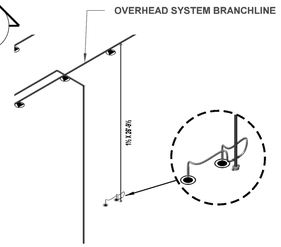
DRIVERS LOUNGE 1 REFLECTED CEILING PLAN

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



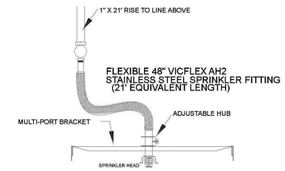
DRIVERS LOUNGE 2 REFLECTED CEILING PLAN

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



LOUNGE 1&2 OVERHEAD CONNECTION

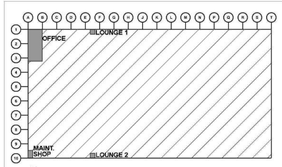
N.T.S.



FLEXIBLE SPRINKLER DROP DETAIL

N.T.S.

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



KEY PLAN

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ARCHITECTURE
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INDIANAPOLIS, IN 46216
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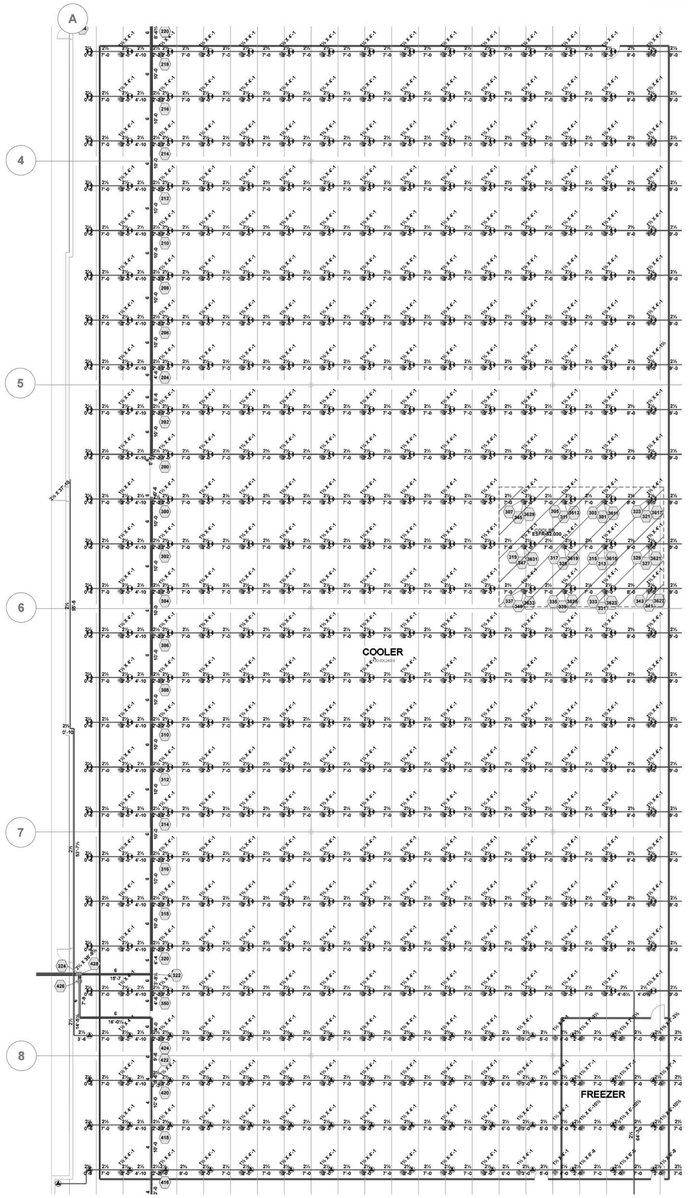
FP2.10

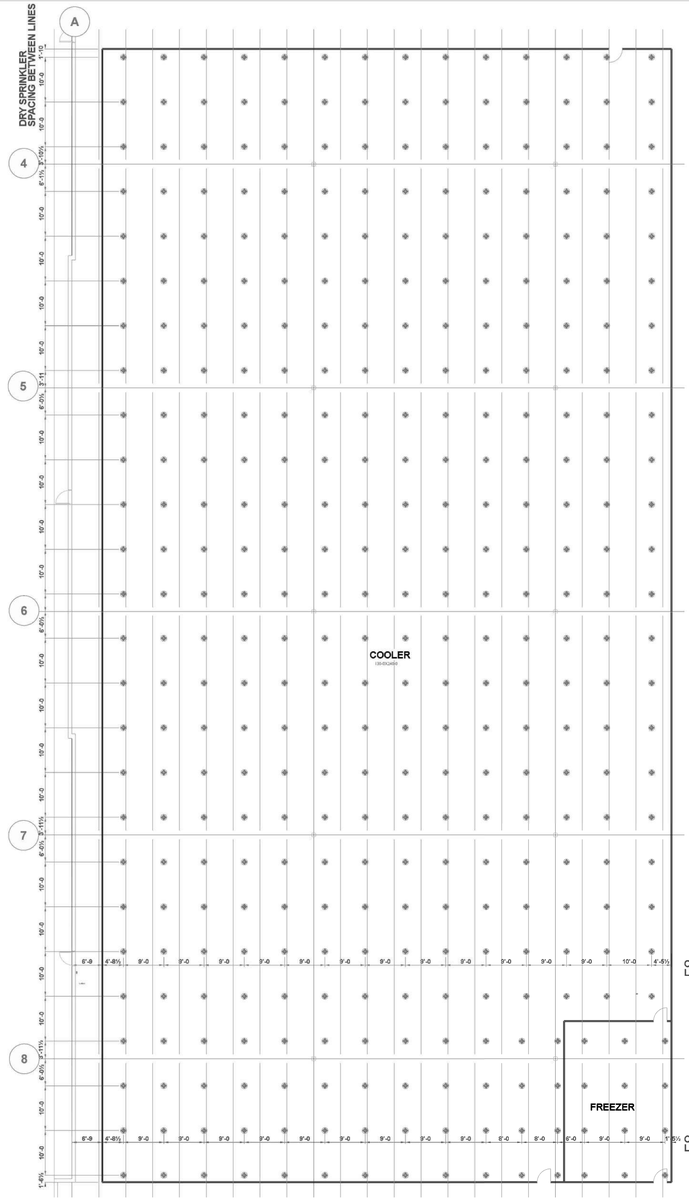
TENANT IMPROVEMENT OFFICE PLAN



COOLER/FREEZER OVERHAD LAYOUT

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

Hydraulic Information	
Remote Area Cooler	
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	1708.14
TOTAL PRESSURE REQUIRED	73.255
BASE OF RISER (GPM)	1708.14
BASE OF RISER (PSI)	73.255
SAFETY MARGIN (PSI)	+16.353 (18.2%)



COOLER/FREEZER LAYOUT

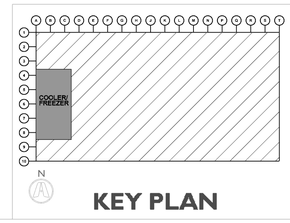
SCALE: 1/16" = 1'-0"

DRY BARREL OVERHEAD CONNECTION

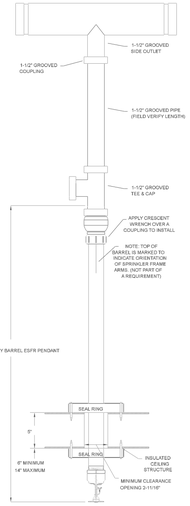
N.T.S.

**COOLER CEILING ELEVATION: 6'-4 BELOW DECK
**COOLER CEILING THICKNESS: 0'-5
**BRANCHLINE CENTERLINES: 0'-8 BELOW DECK

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



KEY PLAN



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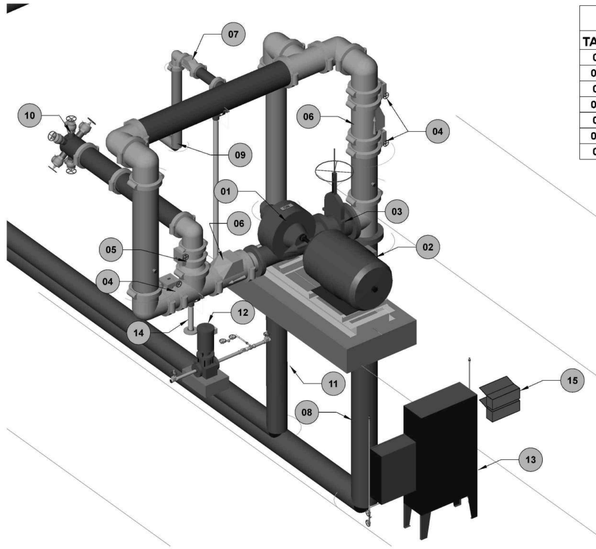
FP2.11

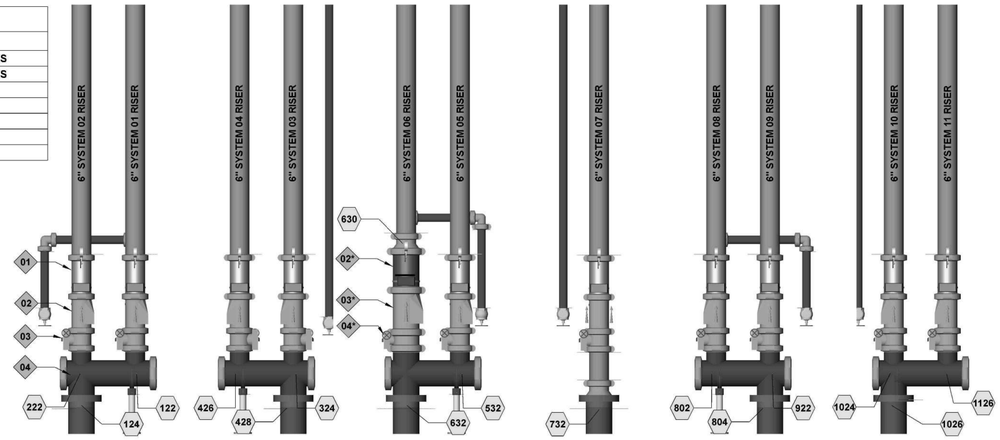
TENANT IMPROVEMENT COOLER PLAN

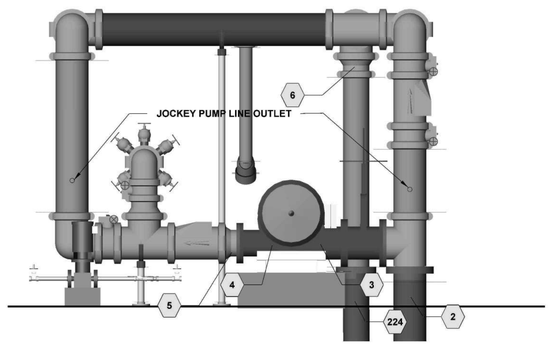


PUMP ROOM (3D VIEW)
SCALE: 3/32" = 1'-0"

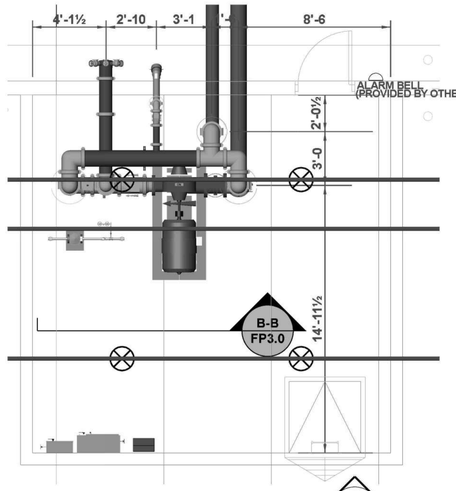
FIRE PUMP RISER BANK MATERIAL LIST	#
TAG#	MATERIAL CALL OUT
01	6" RISER MANIFOLD W/ FLOW SWITCH, INSP. TEST AND 2" MAIN DRAIN, & PRESSURE RELIEF VALVES
01*	8" RISER MANIFOLD W/ FLOW SWITCH, INSP. TEST AND 2" MAIN DRAIN, & PRESSURE RELIEF VALVES
02	6" CHECK VALVE
02*	8" CHECK VALVE
03	6" BUTTERFLY VALVE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

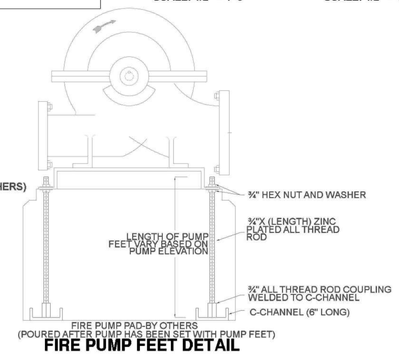




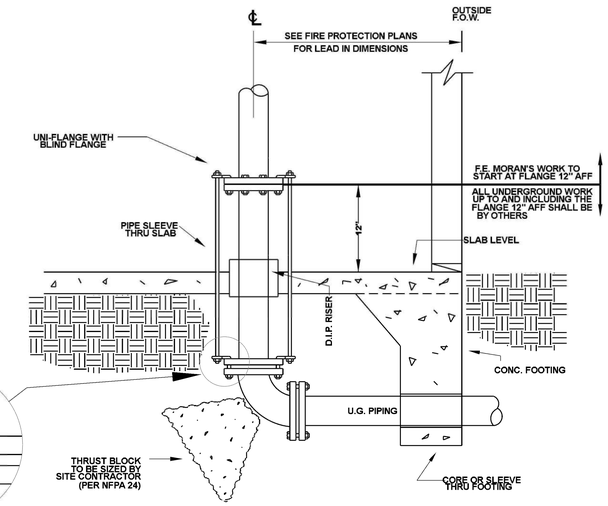
FIRE PUMP (SECTION B-B)
SCALE: 1/2" = 1'-0"



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

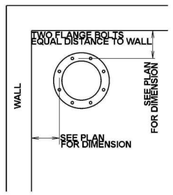


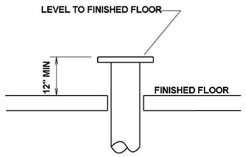
FIRE PUMP FEET DETAIL



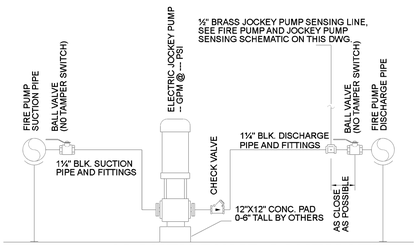
TYPICAL UNDERGROUND LEAD-IN

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

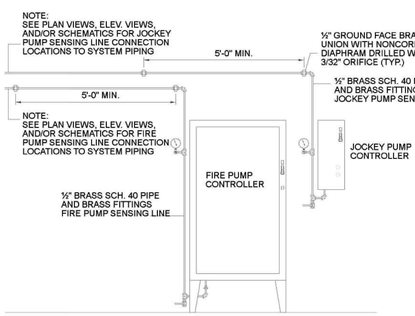




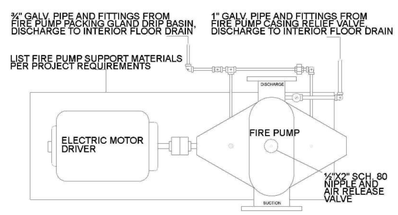
INCOMING FIRE PROTECTION SUPPLY DETAIL
NOT TO SCALE



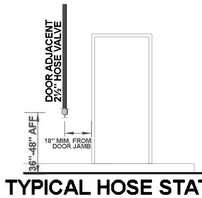
JOCKEY PUMP SCHEMATIC
NO SCALE



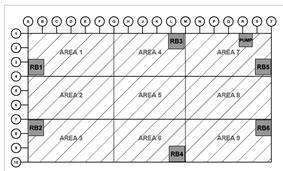
FIRE PUMP AND JOCKEY PUMP SENSING SCHEMATIC
NO SCALE



ELECTRIC FIRE PUMP SCHEMATIC
NO SCALE



TYPICAL HOSE STATION
N.T.S.



KEY PLAN

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

NFPA 20 REQUIREMENTS:

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

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

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

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

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

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

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FP3.0

FIRE PUMP & RISER DETAIL