



July 22, 2025

Lee's Summit Missouri
Development Services
ATTN: Joe Frogge
Carhartt – Lee's Summit
1744 NW Chipman Rd., Lee's Summit, MO 64081
Permit Number: PRCOM20252521

Please see below for responses to permit comments.

Licensed Contractors

| Comment ID | Review Comment | Response |
|------------|--|--|
| 1 | <p>Lee's Summit Code of Ordinance, Section 7-130.10 – Business License. It shall be unlawful for any person to engage in the construction contracting business without first obtaining a business license as required under the applicable provisions of Chapter 28 of the Lee's Summit Code of Ordinances.</p> <p>Action required: Either a Class A or Class B license is required. Provide the company name of the licensed general contractor and the name, email address & phone number for the on-site contact.</p> | <p>Please see attached for license of project general contractor.</p> <p>General Contractor: Commercial Contractors, Inc.</p> <p>Onsite Contact: Paul Kilday T: 616. 403. 9191 E: Paul.Kilday@TeamCCI.net</p> |
| 2 | <p>Lee's Summit Code of Ordinance, Section 7-130.4 – Business License (excerpt)</p> <p>No person, other than a licensed contractor or employees of a licensed contractor, shall engage in electrical, plumbing, or mechanical business, construction, installation, or maintenance unless duly licensed in accordance with this section.</p> <p>Action required: MEP subcontractors are required to be listed on permit. Provide company names of licensed MEP contractors.</p> | <p>G.C. confirming MEP subcontractors, information to be provided shortly.</p> |



Building Plan Review

| Comment ID | Review Comment | Response |
|------------|---|---|
| 1 | 2018 IBC 505.3.3 Guards. Equipment platforms shall have guards where required by Section 1013.2. Action required: Provide guards at equipment platform. | Sheet A1.1 has been updated to provide guard wall extending 42" above platform. |
| 2 | 2018 IBC 1606.2 Design dead load. For purposes of design, the actual weights of materials of construction and fixed service equipment shall be used. In the absence of definite information, values used shall be subject to the approval of the building official. Action Required: Provide verification that either the weight of new roof top equipment is less than or equal to original equipment or provide engineer's report to verify that existing roof structure will support additional load. | Sheet S100 and S101 as well as signed/stamped structural calculations provided to accommodate new roof top equipment. |

Please see attached sheets for above resolved review comments. Please see link below to full set with revised drawings.

Link: <https://rgla.filegenius.com/downloadPublic/q8pdfqcii1eu3za>

Kind Regards,

Sandi Leamon

Sandi Leamon
Program Manager
on behalf of Joseph A. Geoghegan, Jr.
Architect of Record

Commercial Contractors, Inc.
Licensing
16745 Comstock Street
GRAND HAVEN, MI 49417


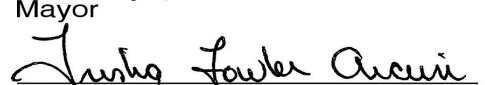


BUSINESS LICENSE

Issuance No. LC23250443

**EXPIRES :
05/31/2026**

License is Hereby Granted to: Commercial Contractors, Inc.


Mayor

City Clerk

Subject to the provisions of all Ordinances now in force and
that may hereafter be passed by said City of Lee's Summit

THIS LICENSE MUST BE DISPLAYED IN A PROMINENT PLACE AND IS NON-TRANSFERABLE

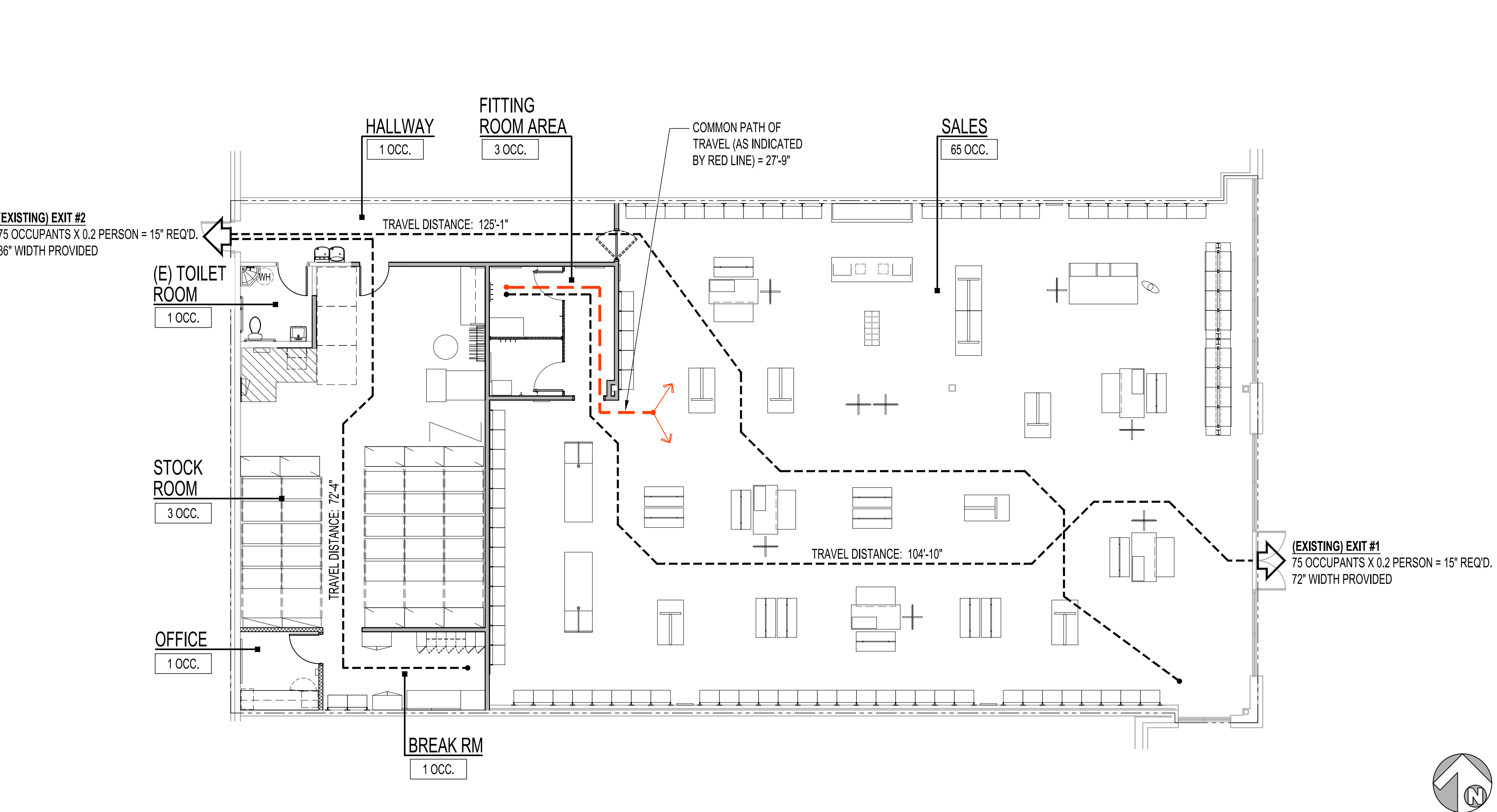
| DRAWING INDEX | |
|---------------|---|
| SHEET # | SHEET NAME |
| G-0.0 | COVER SHEET, CODE INFO, PROJECT DATA, & DIRECTORY |
| G-0.1 | SPECIFICATIONS & GENERAL NOTES |
| G-0.2 | DIVISION OF WORK & SYMBOL LEGEND |
| D-1.1 | DEMOLITION PLANS |
| A-0.1 | SCHEDULES |
| A-1.1 | CONSTRUCTION PLAN, SCHEDULES, & NOTES |
| A-1.2 | FITTING ROOM PLAN, ELEVATIONS & DETAILS |
| A-1.3 | TOILET ROOM PLAN, ELEVATIONS & DETAILS |
| A-1.4 | CONSTRUCTION DETAILS |
| A-2.1 | REFLECTED CEILING PLAN & DETAILS |
| A-3.1 | EXTERIOR ELEVATION |
| A-4.1 | INTERIOR ELEVATIONS |
| A-5.1 | FINISH PLAN |
| A-6.1 | LOW VOLTAGE PLAN |
| F-1.1 | FIXTURE PLAN, SCHEDULE & NOTES |
| F-1.2 | FIXTURE DETAILS |
| F-2.1 | INTERIOR SIGNAGE & GRAPHICS PLAN, & DETAILS |
| E-001 | ELECTRICAL COVER SHEET |
| E-100 | ELECTRIC LIGHTING PLAN |
| E-101 | ELECTRIC LIGHTING - DETAILS |
| E-200 | ELECTRIC POWER PLAN |
| E-300 | ELECTRIC POWER - SINGLE LINE DIAGRAM |
| E-301 | ELECTRIC PANEL SCHEDULES |
| E-400 | ENERGY COMPLIANCE |
| E-500 | ELECTRICAL SPECIFICATIONS |
| E-501 | ELECTRICAL SPECIFICATIONS |
| M-001 | MECHANICAL COVER SHEET |
| M-101 | MECHANICAL DUCTWORK PLAN |
| M-401 | ENERGY COMPLIANCE |
| M-402 | ENERGY COMPLIANCE |
| M-501 | MECHANICAL SPECIFICATIONS |
| M-502 | MECHANICAL SPECIFICATIONS |
| M-601 | MECHANICAL DETAILS |
| M-602 | MECHANICAL SPECIFICATIONS |
| P-001 | PLUMBING COVER SHEET |
| P-101 | PLUMBING PLAN |
| P-501 | PLUMBING SPECIFICATIONS |
| P-601 | PLUMBING DETAILS & SCHEDULES |
| S100 | GENERAL NOTES AND FRAMING PLAN |
| S101 | DETAILS |

| SHEET INDEX | |
|--|---|
| FIXTURES - GRAND + BENEDICTS C: MOLLY CROUSER T: 503.233.6222 E: MOLLYC@GRAND-BENEDICTS.COM | SIGNAGE - VICTORY SIGN INDUSTRIES C: DANA REYNOLDS T: 706.820.6820 E: DREYNOLDS@VICTORYSIGN.COM |
| LIGHTING - CITY LIGHTING C: TOM MISPAGE T: 314.534.1090 E: TMISPAGE@CITYLIGHTING.COM | STOCK ROOM FIXTURES - PIPP MOBILE STORAGE SYSTEMS, INC. C: KATY LOWRY T: 616.988.4063 E: KLOWRY@PIPPMOBILE.COM |
| LOCKS / SAFE - REDFORD LOCK SECURITY SOLUTIONS C: DAVID BOILORE T: 313.401.7004 E: DBOILORE@REDFORDLOCK.COM | SENSORMATIC - JOHNSON CONTROLS C: MH TOTH T: 269.271.8401 E: MH.TOTH@JCI.COM |

| VENDOR CONTACTS | |
|---|---|
| LANDLORD - TENANT COORDINATOR SUMMIT WOODS CROSSING 1700 NW CHIPMAN RD LEE'S SUMMIT, MO 64081 C: JOSH GALICA E: JGALICA@RAINIERCOMPANIES.COM | PROGRAM MANAGER RGLA SOLUTIONS, INC. 5100 RIVER ROAD, SUITE 125 SCHILLER PARK, IL 60176 C: SANDI LEAMON / ADRIAN TAFOLLA P: 847.707.7452 / 847.916.2728 E: SLEAMON@RGLA.COM / ATAFOLLA@RGLA.COM |
| TENANT / OWNER CARHARTT INC. 5750 MERCURY DRIVE DEARBORN, MI 48126 C: MARK KASTNER T: 313.212.7021 E: MKASTNER@CARHARTT.COM | MEP ENGINEER KLH ENGINEERS, PSC 333 EAST MAIN, SUITE 175 LEXINGTON, KY 40507 C: JORDAN LAYCOCK T: 609.547.0242 E: JLAYCOCK@KLHENGERS.COM |
| ARCHITECT JOSEPH A. GEOGHEGAN JR. ROBERT G. LYON & ASSOCIATES, INC. 5100 RIVER ROAD, SUITE 125 SCHILLER PARK, IL 60176 PLEASE CONTACT PROGRAM MANAGER FOR ALL INQUIRIES. | STRUCTURAL ENGINEER WALLACE DESIGN COLLECTIVE, PC 1703 WYANDOTTE STREET, SUITE 200 KANSAS CITY, MO 64108 C: DARCEY SCHUMACHER T: 816.820.0365 E: DARCEY.SCHUMACHER@WALLACE.DESIGN |

| |
|--|
| UPON AWARDING THE GENERAL CONTRACTOR'S CONTRACT, THE GENERAL CONTRACTOR MUST INFORM THE OWNER (CARHARTT) IN WRITING OF ALL MATERIALS AND EQUIPMENT WITH LEAD TIMES OF 4 WEEKS OR GREATER |
| WORK UNDER SEPARATE PERMIT: <ul style="list-style-type: none">SPRINKLER WORKFIRE ALARMSTOREFRONT SIGNAGE |
| ALL MATERIAL SUBSTITUTIONS MUST OBTAIN OWNER AND ARCHITECT'S APPROVAL PRIOR TO COMMENCEMENT |
| GC SHALL PROVIDE CARPENTER ON-SITE FOR ONE EIGHT-HOUR DAY AFTER TURNOVER FOR MISCELLANEOUS TASKS. |
| REQUIRED SUBCONTRACTORS: VERIFY WITH MALL OPERATIONS MANAGER FOR ALL REQUIRED SUBCONTRACTORS. |

ALL CHANGE ORDERS TO BE APPROVED BY CARHARTT - MARK KASTNER - IN WRITING PRIOR TO PROCEEDING WITH WORK. ANY WORK COMPLETED WITHOUT AN APPROVED CHANGE ORDER WILL NOT BE PAID.



| | |
|--|---|
| SCOPE OF WORK STATEMENT THE INTENT OF THE SCOPE CONTAINED WITHIN THESE DOCUMENTS RELATES TO THE INTERIOR BUILD-OUT OF A MERCANTILE SPACE CONTAINED WITHIN AN EXISTING SHOPPING CENTER. PROPOSED WORK INCLUDES CONSTRUCTION AND INSTALLATION OF NEW NON-LOAD BEARING PARTITIONS, FIXTURES, FINISHES, LIGHTING, MECHANICAL, ELECTRICAL, AND PLUMBING. | PERMIT SCOPE INCLUDES ONLY CHECKED BOXES <input checked="" type="checkbox"/> BUILDING <input checked="" type="checkbox"/> MECHANICAL <input checked="" type="checkbox"/> ELECTRICAL <input checked="" type="checkbox"/> PLUMBING <input type="checkbox"/> SPRINKLER <input type="checkbox"/> STOREFRONT SIGN MALL TYPE <input type="checkbox"/> COVERED MALL BUILDING <input checked="" type="checkbox"/> EXTERIOR MALL <input type="checkbox"/> STREET LOCATION |
|--|---|

| | |
|---|---------------|
| - | SCOPE OF WORK |
|---|---------------|

| APPLICABLE CODES | |
|-------------------------|---|
| BUILDING: | 2018 INTERNATIONAL BUILDING CODE |
| ELECTRICAL: | 2017 NATIONAL ELECTRICAL CODE |
| MECHANICAL: | 2018 INTERNATIONAL MECHANICAL CODE |
| PLUMBING: | 2018 INTERNATIONAL PLUMBING CODE |
| ACCESSIBILITY: | ICC/ANSI A117.1-2009 |
| FIRE CODE: | 2018 INTERNATIONAL FIRE CODE |
| ENERGY CODE: | 2018 INTERNATIONAL ENERGY CONSERVATION CODE |
| EXISTING BUILDING CODE: | 2018 INTERNATIONAL EXISTING BUILDING CODE |

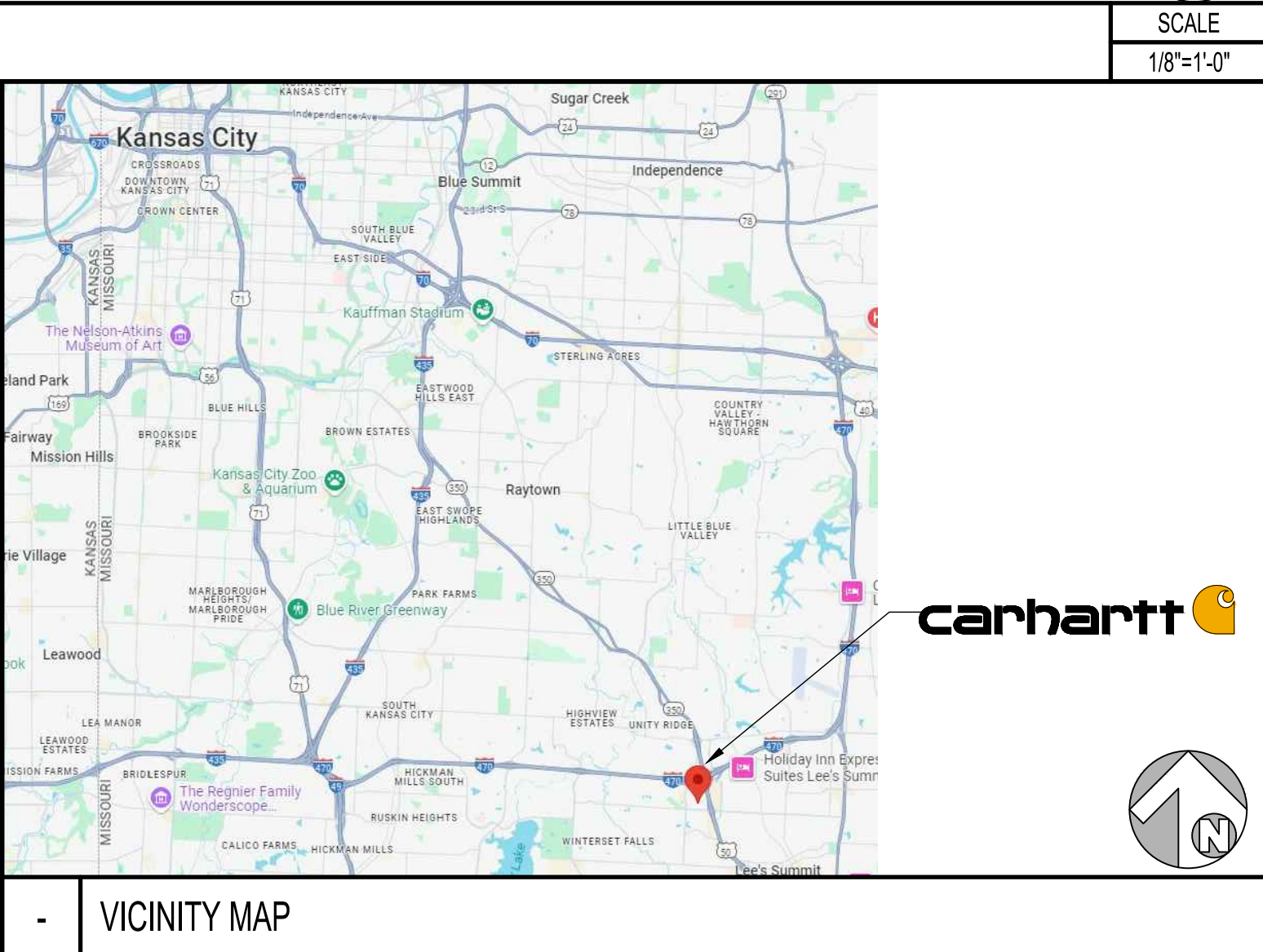
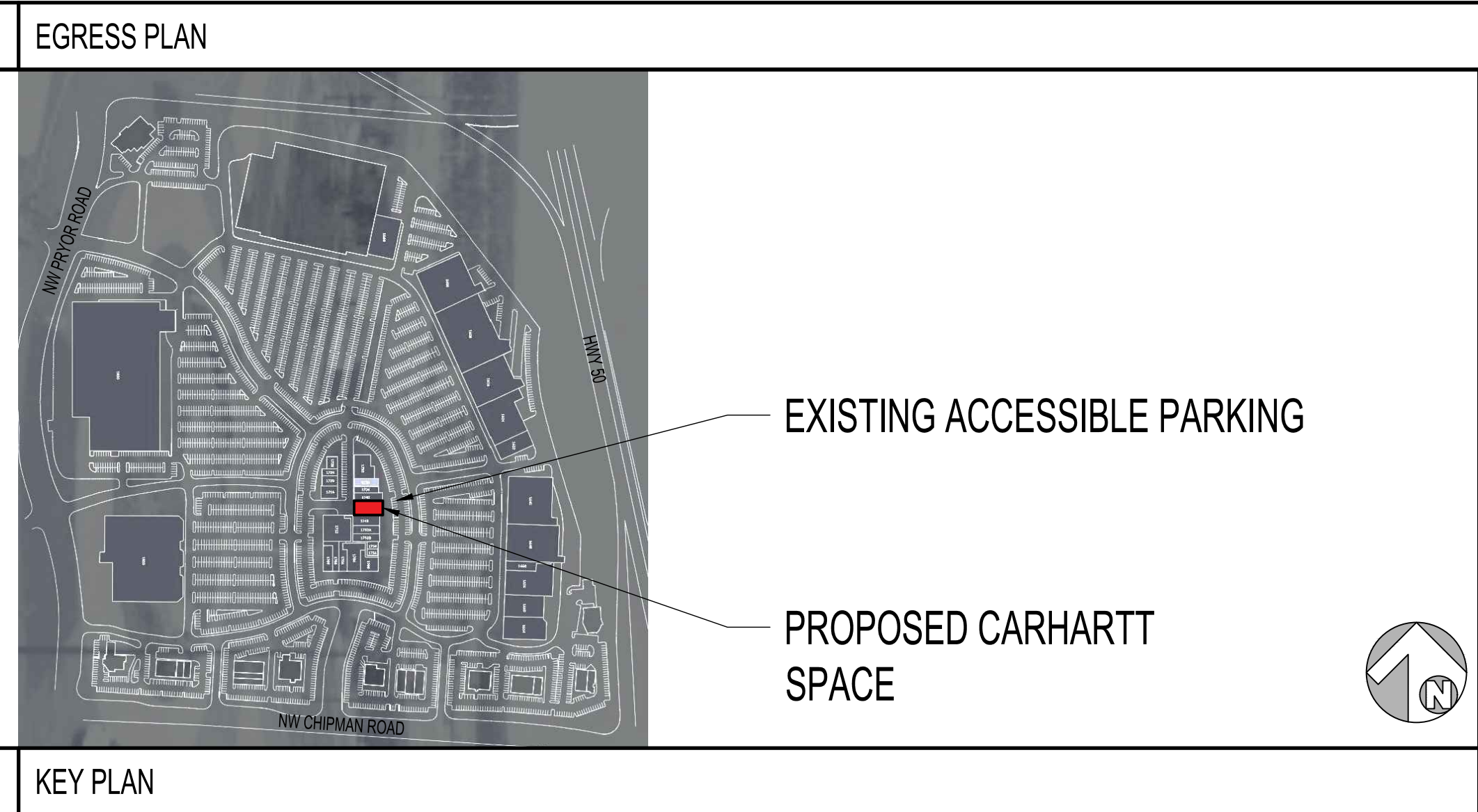
| OCCUPANCY LOAD CALCULATIONS | |
|-----------------------------|--|
| GROSS AREA: | 5,510 SQ.FT. (LEASED AREA) |
| SALES AREA: | 3,871 SQ.FT. / 60 SQ.FT. PER PERSON = 65 |
| FITTING ROOM AREA: | 181 SQ.FT. / 60 SQ.FT. PER PERSON = 3 |
| TOILET ROOM: | 1 PRIVATE TOILET ROOM = 1 |
| OFFICE: | 1 PRIVATE OFFICE = 1 |
| HALLWAY: | 257 SQ.FT. / 300 SQ.FT. PER PERSON = 1 |
| BREAK ROOM: | 181 SQ.FT. / 300 SQ.FT. PER PERSON = 1 |
| STOCKROOM: | 908 SQ.FT. / 300 SQ.FT. PER PERSON = 3 |
| TOTAL OCCUPANCY: | 75 PERSONS |

| BUILDING REQUIREMENTS | | |
|-----------------------|-------------------------------|------------------------------------|
| DESCRIPTION | CODE SECTION | REQUIREMENTS |
| USE GROUP: | IBC CHAPTER 3, SECTION 309 | M (MERCANTILE) |
| NUMBER OF LEVELS: | | LOCATED ON GROUND LEVEL OF 1 LEVEL |
| CONSTRUCTION TYPE: | IBC TABLE 601 | TYPE II B |
| FIRE SPRINKLERS: | IBC SECTIONS 506.3, 903.1 | FULLY SPRINKLERED |
| TENANT AREA: | IBC SECTION 507.3 | 5,510 SQ.FT. AREA OF WORK |
| OCCUPANT LOAD: | IBC SECTION 1004.1 & NFPA 101 | 75 PERSONS |
| NUMBER OF EXITS: | IBC TABLE 1006.3 | 2 REQUIRED |
| EXIT WIDTH: | IBC TABLE 1005.1 | 30" REQUIRED 108" PROVIDED |

| | |
|---|---------------------------|
| - | CODE AND BUILDING SUMMARY |
|---|---------------------------|

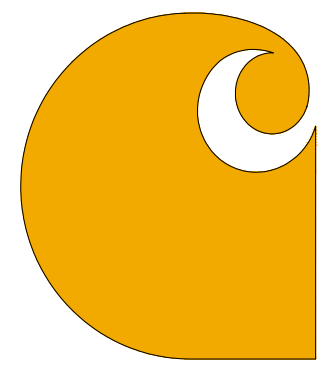
| | | |
|--|---|-------|
| STATEMENT OF COMPLIANCE I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND TO THE BEST OF MY PROFESSIONAL KNOWLEDGE THEY CONFORM TO THE CODES AND ORDINANCES OF LEE'S SUMMIT, MO. | JOSEPH A. GEOGHEGAN JR. LICENSE #: A-2008008193 EXPIRATION DATE: 12/31/2026 | SEAL: |
|--|---|-------|

| | |
|---|-------------------------|
| - | CERTIFICATION STATEMENT |
|---|-------------------------|



| | |
|---|--------------|
| - | VICINITY MAP |
|---|--------------|

carhartt



SUMMIT WOODS CROSSING

1744 NW CHIPMAN ROAD
LEE'S SUMMIT, MO 64081

RGLA

rgla solutions, inc.
5100 River Road, Ste 125
Schiller Park, IL 60176
p: 847.671.7452
f: 847.671.4200
www.rgla.com

| | |
|--------------------------------------|----------|
| REVISIONS: | DATE: |
| ISSUE FOR PERMIT LANDLORD PRICING | 06/18/25 |
| REV 1 - PERMIT REVISIONS | 07/21/25 |
| | |
| | |

robert g. lyon + associates, inc.
retail architecture
5100 River Road, Suite 125
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p: 847.671.7452
f: 847.671.4200
www.rgla.com

JOSEPH A. GEOGHEGAN JR.
NUMBER
A-2008008193
ARCHITECT

THE ABOVE DRAWINGS AND SPECIFICATIONS AND IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREIN ARE AND SHALL REMAIN THE PROPERTY OF THIS OFFICE, AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN THE CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF THIS OFFICE. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND THIS OFFICE MUST BE NOTICED OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS. SHOP DETAILS MUST BE SUBMITTED TO THIS OFFICE FOR APPROVAL BEFORE PROCEEDING WITH FABRICATION. © 2025 RGLA SOLUTIONS, INC. © 2025 ROBERT G. LYON & ASSOCIATES, INC.

carhartt

SUMMIT WOODS
CROSSING
1744 NW CHIPMAN ROAD
LEE'S SUMMIT, MO 64081

COVER SHEET, CODE
INFORMATION, PROJECT
DATA, & DIRECTORY

| | |
|------------|-------|
| DRAWN BY | SLS |
| CHECKED BY | SL |
| JOB NUMBER | 25303 |
| SHEET NAME | G-0.0 |

- ALL WOOD FURRING AND BLOCKING SHALL BE FIRE-RETARDANT TREATED - TYPICAL.
- ALL DIMENSIONS TO BE TO FINISHED SURFACES UNLESS NOTED OTHERWISE. GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN FIELD AND COORDINATE DIMENSIONS WITH VARIOUS TRADES BEFORE FABRICATION OR PURCHASE OF FIXTURES, MILLWORK, COUNTERS, ETC.
- REQUIREMENTS AND DESIGN DATA SHALL BE FOLLOWED ENTIRELY, REGARDLESS OF WHETHER THEY ARE GIVEN BY BOTH THE SPECIFICATIONS AND DRAWINGS OR BY EITHER ONE ONLY.
- SHOP DRAWINGS PREPARED BY SUPPLIERS AND SUBCONTRACTORS SHALL BE REVIEWED BY THE GENERAL CONTRACTOR PRIOR TO SUBMITTAL TO ARCHITECT.
- CONTRACTORS TO ASSUME FULL RESPONSIBILITY, UNRELIEVED BY REVIEW OF SHOP DRAWINGS AND BY SUPERVISION OR PERIODIC OBSERVATION OF CONSTRUCTION, FOR THE FOLLOWING:
 - COMPLIANCE WITH CONTRACT DOCUMENTS.
 - DIMENSIONS TO BE CONFIRMED AND CORRELATED ON THE JOB SITE AND BETWEEN INDIVIDUAL DRAWINGS OR SETS OF DRAWINGS.
 - COORDINATION OF THE VARIOUS TRADES.
 - SAFE CONDITIONS AT THE JOB SITE.
- UNLESS OTHERWISE NOTED, ALL DETAILS, SECTIONS AND NOTES ON DRAWINGS ARE INTENDED TO BE TYPICAL FOR SIMILAR SITUATIONS ELSEWHERE.
- GC TO PROVIDE FIRE EXTINGUISHERS TO MEET LOCAL CODE REQUIREMENTS.

A GENERAL NOTES

- LIGHT METAL STRUCTURAL PARTITION BOTTOM TRACKS MAY BE FASTENED TO CONCRETE SLAB USING LOW-VELOCITY POWER DRIVEN PINS FOLLOWING THE MANUFACTURER'S INSTALLATION RECOMMENDATIONS UNLESS OTHERWISE NOTED. THE FASTENING SYSTEM USED SHALL BE AS MANUFACTURED BY HILTI (ICBO REPORT NO. ESR-2269) OR APPROVED EQUAL. PINS SHALL HAVE A MINIMUM SHANK DIAMETER OF 0.157", A MINIMUM LENGTH OF 1-1/8", AND SHALL BE SPACED AT 16" O.C. MAXIMUM.
- THE TOP TRACK OF EACH FULL HEIGHT WALL SHALL BE ATTACHED DIRECTLY TO THE FRAMING WHEN THE WALL IS PERPENDICULAR TO FRAMING AND TO BLOCKING BETWEEN FRAMING @ 4'-0" O.C. WHEN THE WALL IS PARALLEL TO THE FRAMING.
- PROVIDE MIN. 2'-0" HIGH CEMENT BOARD @ FLOOR BEHIND ALL FIBERGLASS REINFORCED PANELS.
- PROVIDE CEMENT BOARD UNDER ALL WALL TILE WHERE APPLICABLE.
- ALL BRACING AND SUSPENDED COMPONENTS ARE FROM STRUCTURE (NOT FROM DECK), DO NOT PENETRATE THROUGH DECK ABOVE.
- GYP/UM BOARD SHALL BE ATTACHED WITH #6 SCREWS MINIMUM UNLESS NOTED OTHERWISE.

B PARTITION NOTES

NOTE:

- A. COORDINATE WALL TYPE WITH SECTIONS AND PLANS. NOTIFY ARCHITECT OF DISCREPANCIES PRIOR TO ISSUING BIDS.
- B. 5/8" WATER RESISTANT GYP. BD. IS TO BE USED IN ALL AREAS WHERE EXPOSED TO MOISTURE OR WATER SUCH AS TOILET ROOM, MOP SINKS, ETC.

*STUDS BY ANGELES METAL SYSTEMS, ICBO NO.1715 OR APPROVED EQUAL

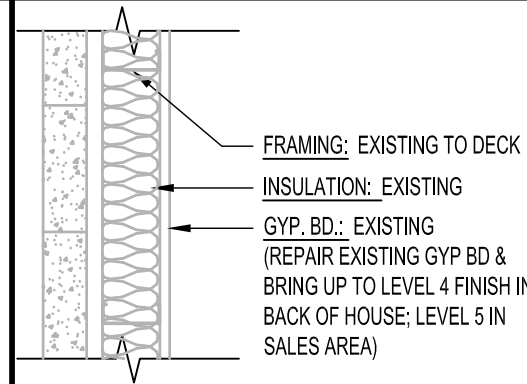
C STUD SCHEDULE

| NON-BEARING METAL STUD SCHEDULE | | |
|---------------------------------|----------|----------------------------------|
| STUD SIZE* | SPACING | MAX. HEIGHT (W/ FLEXIBLE FINISH) |
| 362S162-18 | 16" O.C. | 13'-6" |
| 362S162-33 | 16" O.C. | 21'-1" |
| 362S162-43 | 12" O.C. | 25'-0" |
| 600S162-33 | 16" O.C. | 30'-0" |

NOTE:
G.C. TO CALL CARHARTT PM DURING FRAMING STAGE TO DISCUSS ANY FIELD DIMENSIONS DISCREPANCIES PRIOR TO FRAMING. ESPECIALLY OVERALL SALES FLOOR AND STOCKROOM DIMENSIONS. FAILURE TO DO SO CAN RESULT IN G.C. RE-FRAMING AT THEIR EXPENSE

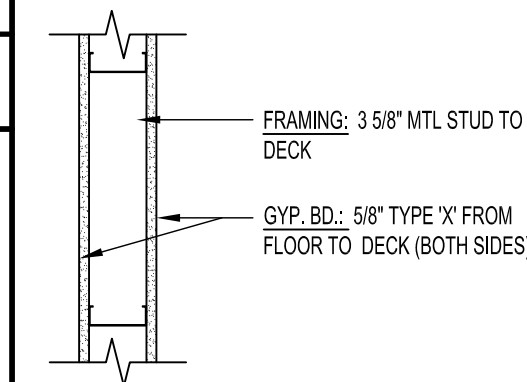
NOTE:
PRIOR TO FRAMING G.C. SHALL VERIFY NEW WALLS DO NOT CONFLICT WITH EXISTING HVAC DROPS & PIPES. FAILURE TO DO SO CAN RESULT IN G.C. RE-FRAMING AT THEIR EXPENSE

NOTE:
ALL EXISTING WALLS IN SALES AREA TO BE BROUGHT UP TO LEVEL 5 FINISH.



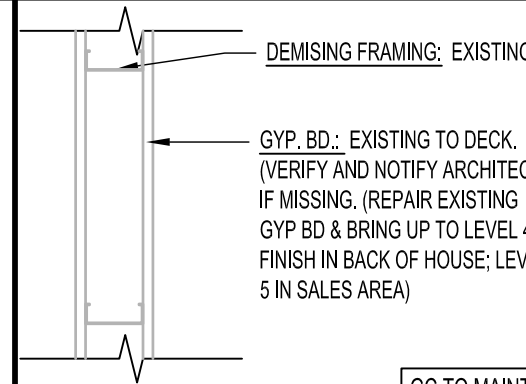
EXTERIOR PARTITION

WALL TYPE A



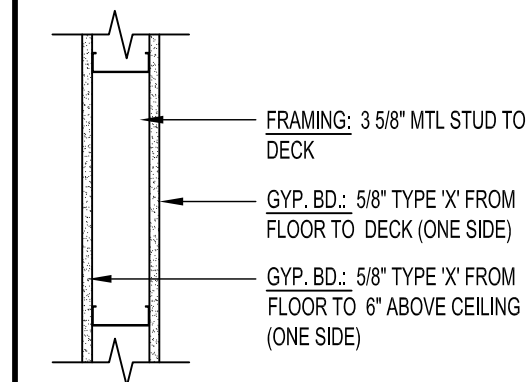
FULL HEIGHT PARTITION

WALL TYPE C



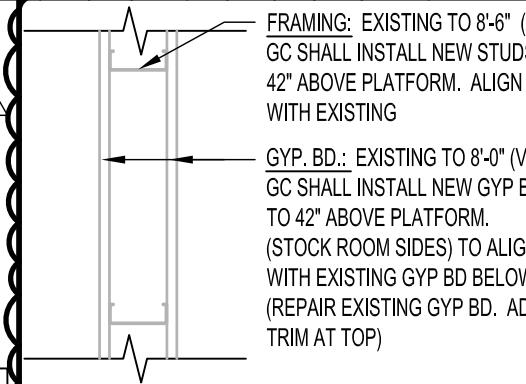
EXISTING DEMISING PARTITION

WALL TYPE A1



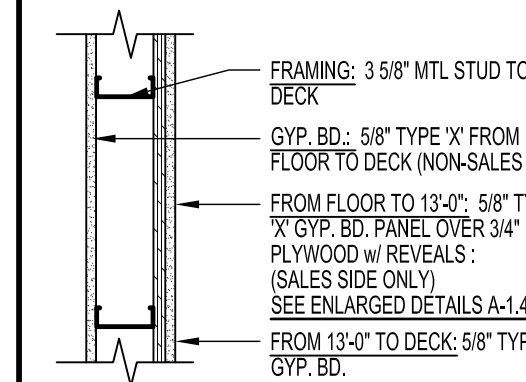
FULL HEIGHT PARTITION

WALL TYPE C1



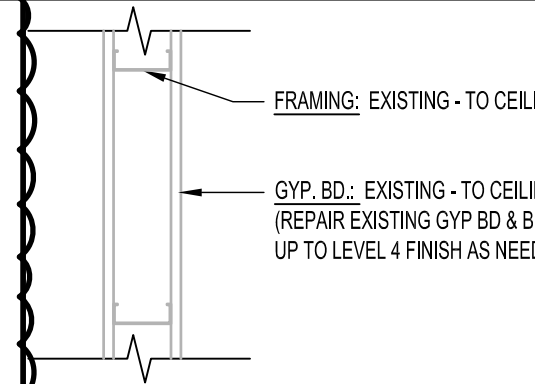
EXISTING INTERIOR PARTITION / PLATFORM GUARD

WALL TYPE A2



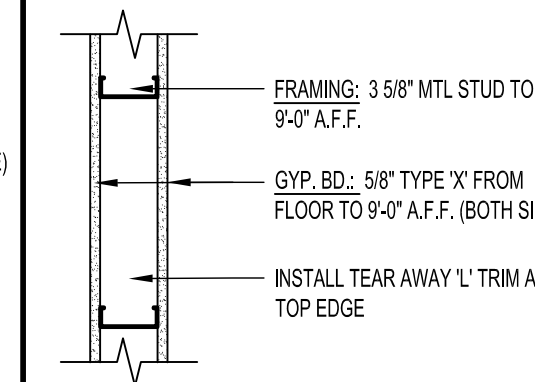
FULL HEIGHT PARTITION - PANT WALL

WALL TYPE D



EXISTING INTERIOR PARTITION

WALL TYPE A3



PARTIAL HEIGHT PARTITION

WALL TYPE E

- TENANT LEASE LINE
- FIRE EXTINGUISHER - COORDINATE LOCATIONS WITH FIRE MARSHAL
- SAWCUT GROOVE IN CONCRETE SLAB PER DETAIL 8/A1.4
- EXISTING 3/4" CDX" F.T. PLYWOOD TO REMAIN
- ELECTRICAL PANELS - SEE ELECTRICAL SHEETS. INSTALL 3/4" CDX" F.T. PLYWOOD IF NOT EXISTING
- LOCATION OF NEW DATA RACK.
- NEW WATER FOUNTAIN / BOTTLE FILLER
- NOTIFY ARCHITECT IMMEDIATELY IF EXISTING STUDS OR GYP. BD. DOES NOT EXTEND TO DECK.
- G.C. TO PROVIDE CONCRETE FOR BASE OF WINDOW FIXTURE. FORMWORK IS PROVIDED WITH FIXTURE. EACH BASE IS 30" W. X 6" H.
- G.C. TO PROVIDE ACCESS TO WATER HEATER ON PLATFORM ABOVE MOP SINK.
- G.C. TO ENSURE THAT CONCRETE IS LEVEL TO WITHIN 1/8" VARIATIONS AT AREAS UNDER ROLLING SHELVES. VERIFY EXACT LOCATIONS W/ FIXTURE PLAN. ROLLING SHELVES EQUIPMENT IS 2,000-3,000 PSI. VERIFY EXACT CONCRETE LEVELING REQUIREMENTS W/ ARCHITECT & SHELVING VENDOR PRIOR TO CONSTRUCTION.
- G.C. SHALL INSTALL NEW SEALANT AT BOTTOM OF GLAZING AFTER TILE IS REMOVED.

SCALE
1"=1'-0"

KEY NOTES

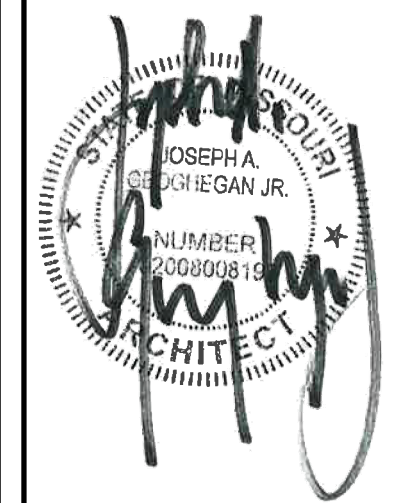


rgla solutions, inc.

5100 River Road, Ste 125
Schiller Park, IL 60176
p: 847.671.7452
f: 847.671.4200
www.rgla.com

| REVISIONS: | DATE: |
|-------------------------------------|----------|
| ISSUE FOR PERMIT / LANDLORD PRICING | 06/18/25 |
| REV 1 - PERMIT REVISIONS | 07/21/25 |
| | |
| | |
| | |

robert g. lyon + associates, inc.
retail architecture
5100 River Road, Ste 125
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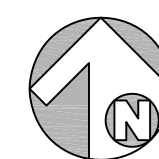


SUMMIT WOODS CROSSING

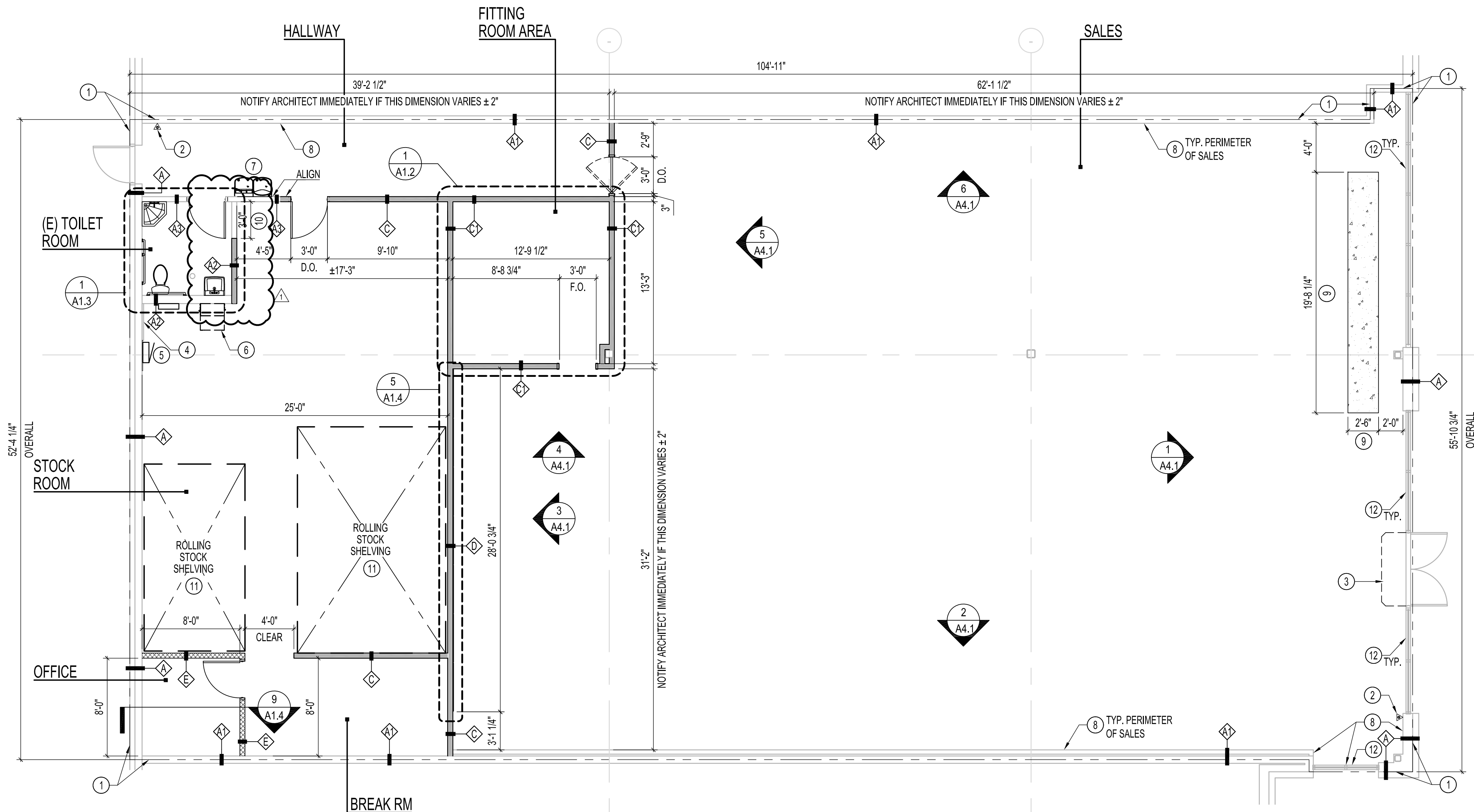
1744 NW CHIPMAN ROAD
LEE'S SUMMIT, MO 64081

CONSTRUCTION PLAN,
SCHEDULE & NOTES

| | |
|------------|-------|
| DRAWN BY | SLS |
| CHECKED BY | SL |
| JOB NUMBER | 25303 |
| SHEET NAME | A-1.1 |



SCALE
3/16" = 1'-0"



1 CONSTRUCTION PLAN / FINISH PLAN

| | | |
|----|---|--------------------|
| 1. | BUILDING CODE | 2018 BUILDING CODE |
| 2. | RISK CATEGORY | II |
| 3. | MINIMUM ROOF LIVE LOAD | 20 PSF |
| 4. | GROUND SNOW LOAD | 20 PSF |
| 5. | WIND | |
| | A. BASIC WIND SPEED, (3-SEC GUST) VULT | 109 MPH |
| | B. EXPOSURE CATEGORY | C |
| 6. | SEISMIC | |
| | A. MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETERS, S _s | 0.099 |
| | B. MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETERS, S ₁ | 0.068 |
| | C. SITE CLASS (ASSUMED) | D |

IN ADDITION TO THE REGULAR INSPECTIONS REQUIRED BY SECTION 110, THE FOLLOWING ITEMS WILL ALSO REQUIRE SPECIAL INSPECTION IN ACCORDANCE WITH SECTION 1705 OF THE 2018 BUILDING CODE.

| ITEM | SECTION |
|--------------------|---------|
| STEEL CONSTRUCTION | 1705.2 |

DURING WELDING OR ANY OTHER CONSTRUCTION ACTIVITY THAT GENERATES SPARKS OR INTENSE HEAT, THE CONTRACTOR SHALL PROVIDE ADEQUATE FIRE PROTECTION TO THE EXISTING STRUCTURE AND CONTENTS. AS A MINIMUM:

- REMOVE COMBUSTIBLE MATERIALS FROM AREAS OF WELDING AND SPARKS.
- PROVIDE FIRE PROOF BLANKETS AND SHIELDS TO CONTAIN SPARKS WHERE COMBUSTIBLE MATERIALS CANNOT BE REMOVED
- PROVIDE A FIRE SAFETY OBSERVER WITH A FIRE EXTINGUISHER ON BOTH THE ROOF AND BELOW THE ROOF DURING WELDING NEAR THE ROOF STRUCTURE.

1. THE SIZE AND LOCATION OF EQUIPMENT PADS AND PENETRATIONS THROUGH THE STRUCTURE FOR MECHANICAL, ELECTRICAL AND PLUMBING WORK SHALL BE COORDINATED WITH THE APPROPRIATE CONTRACTOR(S). PENETRATIONS SHALL BE SUBJECT TO APPROVAL BY THE ARCHITECT/ENGINEER.
2. STRUCTURAL ELEMENTS ARE NON-SELF SUPPORTING AND REQUIRE INTERACTION WITH OTHER ELEMENTS FOR STABILITY AND RESISTANCE TO LATERAL FORCES. FRAMING AND WALLS SHALL BE TEMPORARILY BRACED BY THE CONTRACTOR UNTIL PERMANENT BRACING, FLOOR AND ROOF DECKS, AND WALLS HAVE BEEN INSTALLED AND CONNECTIONS BETWEEN THESE ELEMENTS HAVE BEEN MADE.
3. STRUCTURAL DRAWINGS REPRESENT THE FINISHED STRUCTURE AND DO NOT INDICATE THE METHOD OF CONSTRUCTION, UNLESS NOTED OTHERWISE. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES, AND OPERATION OF CONSTRUCTION AND SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL THERETO.
4. ARCHITECTURAL, MECHANICAL AND ELECTRICAL COMPONENTS AND SYSTEMS SHALL BE DESIGNED AND CONSTRUCTED TO RESIST SEISMIC FORCES AS DETERMINED IN CHAPTER 13 OF ASCE 7.
5. CONTRACTOR IS RESPONSIBLE FOR STRUCTURAL INTEGRITY AND STABILITY OF EXISTING STRUCTURE DURING DEMOLITION AND NEW CONSTRUCTION. CONTRACTOR SHALL RETAIN THE SERVICES OF A PROFESSIONAL ENGINEER REGISTERED IN THE PROJECT STATE TO DESIGN TEMPORARY SHORING AS REQUIRED.
6. VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO FABRICATION OF STRUCTURAL ITEMS. IF ANY DISCREPANCIES ARE FOUND BETWEEN WHAT IS SHOWN ON THE PLANS AND WHAT EXISTS IN THE FIELD, CONSULT THE ARCHITECT/ENGINEER OF RECORD TO DETERMINE WHAT SHOULD BE DONE TO MATCH EXISTING CONDITIONS AS REQUIRED. BEGINNING OF STEEL FABRICATION MEANS ACCEPTANCE OF EXISTING CONDITIONS.
7. DIMENSIONS AND DETAILS OF THE EXISTING STRUCTURE ARE BASED UPON LIMITED FIELD SURVEY. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND REPORT TO THE ENGINEER ANY VARIATIONS FROM THE DATA SHOWN HEREIN FOR POSSIBLE REDESIGN.
8. BEFORE OR CONCURRENT WITH EXCAVATIONS FOR THE FOUNDATIONS ADJACENT TO THE EXISTING BUILDING, PROVIDE ADEQUATE SUPPORT TO THE EXISTING SUBBASE OF THE EXISTING SLAB AND THE FOUNDATIONS TO PREVENT UNDERMINING.
9. DURING WELDING OR ANY OTHER CONSTRUCTION ACTIVITY THAT GENERATES SPARKS OR INTENSE HEAT, THE CONTRACTOR SHALL PROVIDE ADEQUATE FIRE PROTECTION TO THE EXISTING STRUCTURE AND CONTENTS.
10. USE ONLY DIMENSIONS INDICATED ON THE DRAWINGS. DO NOT SCALE DRAWINGS OR USE ANY DIMENSIONS TAKEN FROM ELECTRONIC DRAWING FILES.
11. ASSUME EQUAL SPACING IF NOT INDICATED ON DRAWINGS.

1. STRUCTURAL STEEL SHALL MEET THE FOLLOWING MINIMUM YIELD STRESS (FY)

| | YIELD | ASTM SPECIFICATION |
|------------------------------------|----------------------|------------------------|
| A. W, WT SHAPES: | 50 KSI | A992 |
| B. BARS, PLATES, CHANNELS, ANGLES: | 36 KSI | A36 |
| C. SQUARE, RECTANGULAR HSS: | 50 KSI | A500, GRADE C |
| D. ROUND HSS: | 46 KSI | A500, GRADE C |
| E. STRUCTURAL STEEL PIPE: | 35 KSI | A53, GRADE B |
| F. ANCHOR RODS: | 36 KSI | F1554 |
| G. ALL-THREAD RODS: | 36 KSI | A36 |
| H. HEADED STUD ANCHORS: | 5 KSI TENSILE STRESS | A108, GRADES 1010-1020 |

2. WELDING SHALL MEET ANSI / AWS D1.1, STRUCTURAL WELDING CODE LATEST REVISION. ELECTRODES SHALL BE 70 KSI, LOW HYDROGEN.

3. ALL CONNECTIONS NOT FULLY DETAILED ON THE STRUCTURAL DRAWINGS SHALL BE DESIGNED AND DETAILED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED, EMPLOYED OR RETAINED BY THE STEEL FABRICATOR. THE DESIGN AND DETAILING SHALL COMPLY WITH ALL APPLICABLE CODES AND SPECIFICATION SECTIONS.

4. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR INCLUDING THE COSTS FOR ALL MISCELLANEOUS STEEL IN THEIR BID REGARDLESS OF WHETHER THOSE ITEMS ARE INDICATED ON THE STRUCTURAL DRAWINGS. THESE COSTS SHALL INCLUDE BUT ARE NOT LIMITED TO MISCELLANEOUS STEEL ITEMS SHOWN ON ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS.

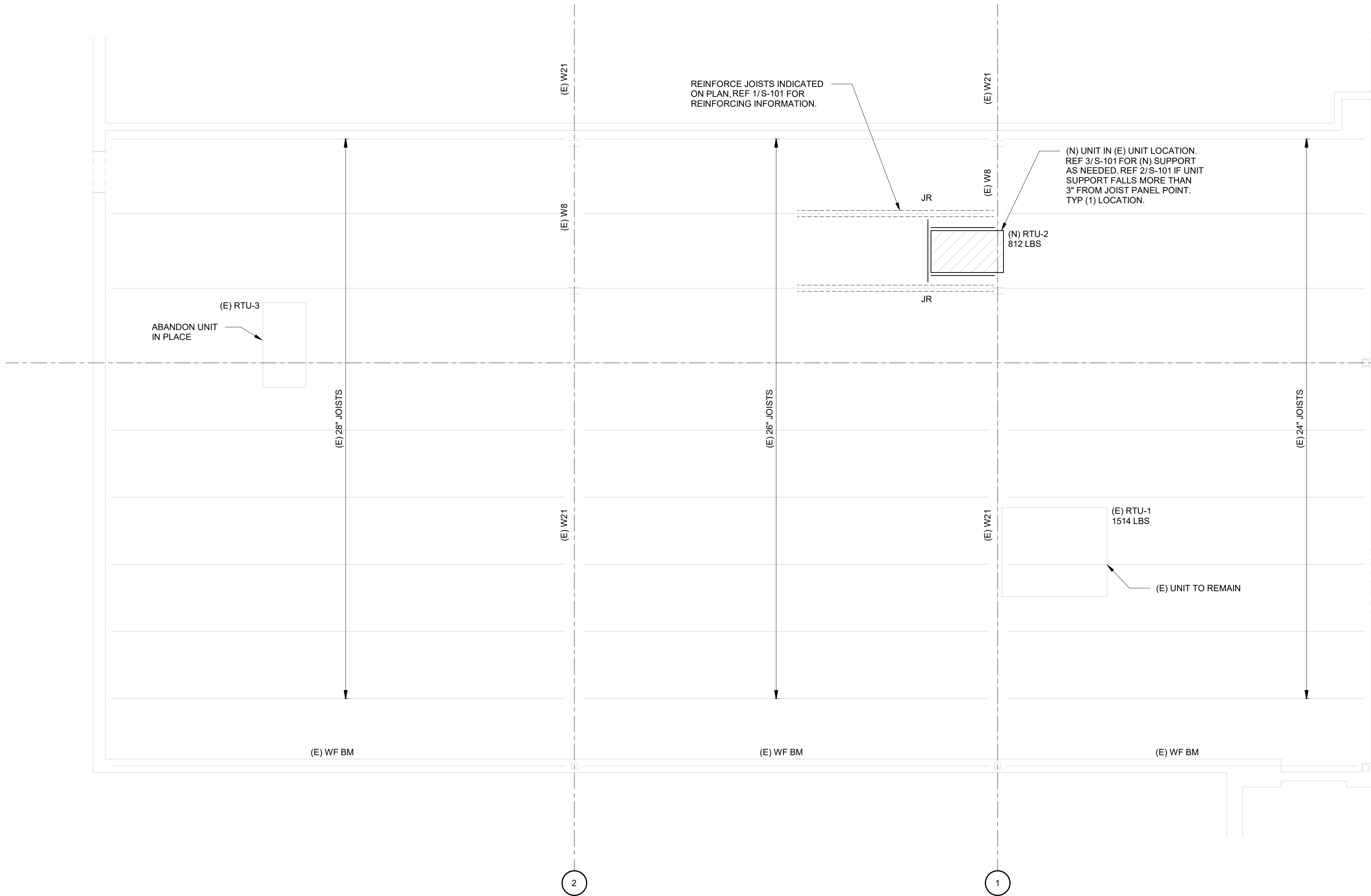
1. WORK WITH EXISTING STRUCTURES REQUIRES THOROUGH COORDINATION OF THE CONTRACT DOCUMENTS WITH EXISTING CONDITIONS. THE CONTRACTOR MUST VERIFY ALL RELEVANT EXISTING CONDITIONS, DIMENSIONS, ELEVATIONS, DETAILS, ETC., BEFORE THE START OF WORK. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES, OMISSIONS OR DIMENSIONS SHOWN ON THE CONTRACT DOCUMENTS TO THE ARCHITECTURAL DESIGN PROFESSIONAL AND THE STRUCTURAL DESIGN PROFESSIONAL TO REVIEW THE DESIGN AND FOR POSSIBLE REVISION OF THE CONTRACT DOCUMENTS. BEGINNING FABRICATION MEANS ACCEPTANCE OF EXISTING CONDITIONS.
2. THE NATURE OF STRUCTURAL DEMOLITION OR STABILIZATION IS INHERENTLY UNCERTAIN. THE EXACT CONDITION AND CAPACITY OF EACH STRUCTURAL ELEMENT CANNOT BE VERIFIED BEFORE THE START OF WORK. IT IS IMPERATIVE TO REPORT ANY ELEMENT WITH QUESTIONABLE STRUCTURAL INTEGRITY TO THE ARCHITECTURAL DESIGN PROFESSIONAL AND THE STRUCTURAL DESIGN PROFESSIONAL FOR IMMEDIATE REVIEW.
3. NO ATTEMPT HAS BEEN MADE TO DEFINE EACH SPECIFIC STRUCTURAL ELEMENT THAT MUST BE REMOVED, ENHANCED, OR REPLACED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW THE CONDITION OF INDIVIDUAL ELEMENTS (PARTICULARLY RAFTERS, JOISTS, AND STRUCTURAL DECK BOARDS) TO DETERMINE WHICH ELEMENTS CAN BE SALVAGED, WHICH ELEMENTS MUST BE REPLACED, AND WHICH ELEMENTS ARE QUESTIONABLE. THE CONTRACTOR SHOULD CONSULT WITH THE ARCHITECTURAL DESIGN PROFESSIONAL AND THE STRUCTURAL DESIGN PROFESSIONAL TO DETERMINE THE APPROPRIATE PROCEDURE FOR ELEMENTS IN QUESTIONABLE CONDITION.
4. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE DESIGN AND ERECTION OF ALL SHORING, BRACING, AND PROTECTION MEASURES NECESSARY TO SAFEGUARD AND MAINTAIN THE EXISTING STRUCTURE DURING DEMOLITION AND CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT A DETAILED PLAN FOR THE SHORING, BRACING, AND PROTECTION OF THE EXISTING CONSTRUCTION FOR REVIEW BY THE DESIGN PROFESSIONAL. THE REVIEW OF THE SUBMITTAL BY THE STRUCTURAL DESIGN PROFESSIONAL IS ONLY FOR GENERAL CONFORMANCE WITH THE CONTRACT DOCUMENTS. THE PLAN MUST INCLUDE THE PROPOSED CONSTRUCTION SEQUENCE FOR THE SHORING, BRACING, AND PROTECTION PLAN MUST BE SIGNED AND SEALED BY AN ENGINEER LICENSED IN THE PROJECT JURISDICTION.
5. DURING WELDING OR ANY OTHER CONSTRUCTION ACTIVITY THAT GENERATES SPARKS OR INTENSE HEAT, THE CONTRACTOR SHALL PROVIDE ADEQUATE FIRE PROTECTION TO THE EXISTING STRUCTURE AND CONTENTS.
6. THE EXISTENCE OF UNDERGROUND STRUCTURES AND UTILITIES IS NOT KNOWN. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE OWNER OR NECESSARY AUTHORITY AND LOCATING ALL UNDERGROUND STRUCTURES AND UTILITIES.
7. NO REINFORCING SHALL BE CUT WITHOUT THE APPROVAL OF THE STRUCTURAL DESIGN PROFESSIONAL. ADDITIONAL REINFORCEMENT OF THE SLAB MAY BE REQUIRED FOR NEW PENETRATIONS. CLUSTERED PENETRATIONS MAY NEED TO BE SEPARATED OR REGROUPED DEPENDING ON THE CONFIGURATION OF THE SLAB REINFORCING.
8. PENETRATIONS ARE NOT PERMITTED IN PRIMARY STRUCTURAL MEMBERS (BEAMS AND COLUMNS) WITHOUT THE STRUCTURAL DESIGN PROFESSIONAL'S WRITTEN PERMISSION.
9. THE CONTRACTOR SHALL USE METHODS AND TAKE PRECAUTIONS TO PREVENT OVERTCUTTING FOR ANY NEW PENETRATIONS. SUGGESTED METHODS INCLUDE SAW CUTTING WITH CORED HOLES AT THE CORNERS OF USES OF NEW PENETRATIONS OR USING CONCRETE CHAINSAWS WITH PLUNGE-CUTTING CAPABILITIES.
10. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO THE EXISTING REINFORCING. ANY REPAIR PROCEDURES NOT DETAILED IN THE CONTRACT DOCUMENTS MUST BE SUBMITTED FOR REVIEW BY THE STRUCTURAL DESIGN PROFESSIONAL. THE SUBMITTAL MUST BE SIGNED AND SEALED BY A LICENSED ENGINEER IN THE PROJECT JURISDICTION.

(E) - DENOTES EXISTING
(N) - DENOTES NEW
FV - DENOTES FIELD VERIFY
JR - DENOTES JOIST REINFORCING, REF 1/S-101
XXK - JOIST
WXX - WIDE FLANGE

☐ • DENOTES EXISTING UNIT TO REMAIN

 - DENOTES NEW UNIT IN EXISTING LOCATION

VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO FABRICATION OF STRUCTURAL ITEMS. EXISTING PORTION OF PLANS ARE FROM LIMITED EXISTING DRAWINGS, WHICH MAY OR MAY NOT REFLECT ACTUAL AS-BUILT CONDITIONS OR DIMENSIONS. IF ANY DISCREPANCIES ARE FOUND BETWEEN WHAT IS SHOWN ON THE PLANS AND WHAT EXISTS IN THE FIELD, CONTACT ARCHITECT AND ENGINEER TO DETERMINE WHAT SHOULD BE DONE TO MATCH EXISTING CONDITIONS AS REQUIRED. BEGINNING OF STEEL FABRICATION MEANS ACCEPTANCE OF EXISTING CONDITIONS. REF GENERAL NOTES.




EXISTING FRAMING PLAN

$$3/16'' = 1'-0''$$


rgla solutions, inc.

5100 River Road, Ste 125
Schiller Park, IL 60176
p: 847.671.7452
f: 847.671.4200
www.rgla.com

| REVISION | DATE |
|---|----------|
| ISSUE FOR PERMIT, LANDLORD, PRICING | 06/18/25 |
| STRUCTURAL REVISION  | 07/21/25 |
| | |
| | |

robert g. lyon + associates, inc.

architecture
100 River Road, Ste 125
Schiller Park, IL 60176
p: 847.671.7452
f: 847.671.4200
www.rgla.com



SEAL: 07.21.2025

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carhartt 

SUMMIT WOC
CROSSING

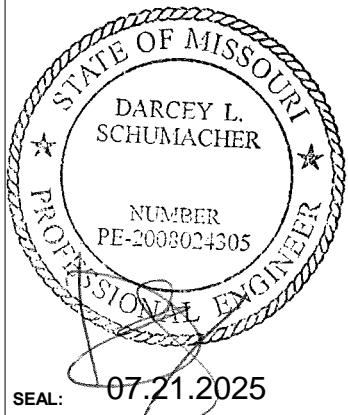
1744 NW CHIPMAN ROAD
LEE'S SUMMIT, MO 64081

GENERAL NOTES AND FRAMING PLAN

| |
|---|
| DRAWN BY |
| AML |
| CHECKED BY |
| RLH |
| JOB NUMBER |
| 25303 |
| SHEET NAME |
|  |

| REVISION | DATE |
|-------------------------------------|----------|
| ISSUE FOR PERMIT, LANDLOAD, PRICING | 06/18/25 |
| STRUCTURAL REVISION | 07/21/25 |
| | |
| | |

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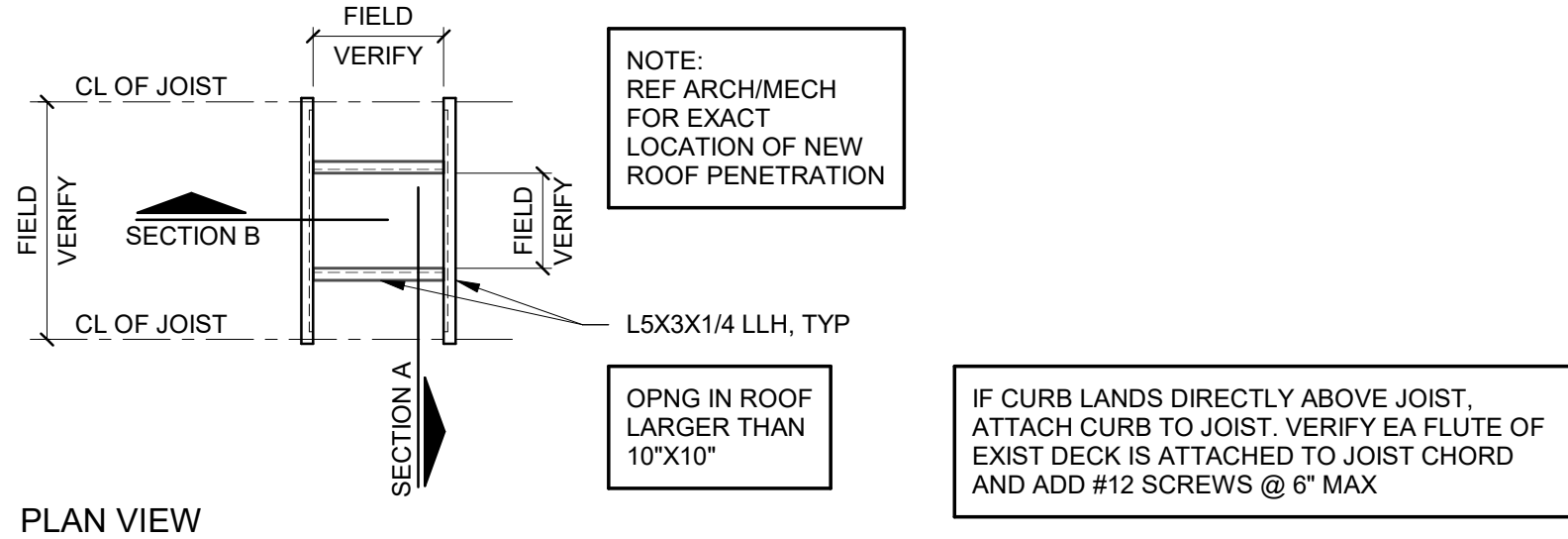
carhartt

SUMMIT WOODS
CROSSING

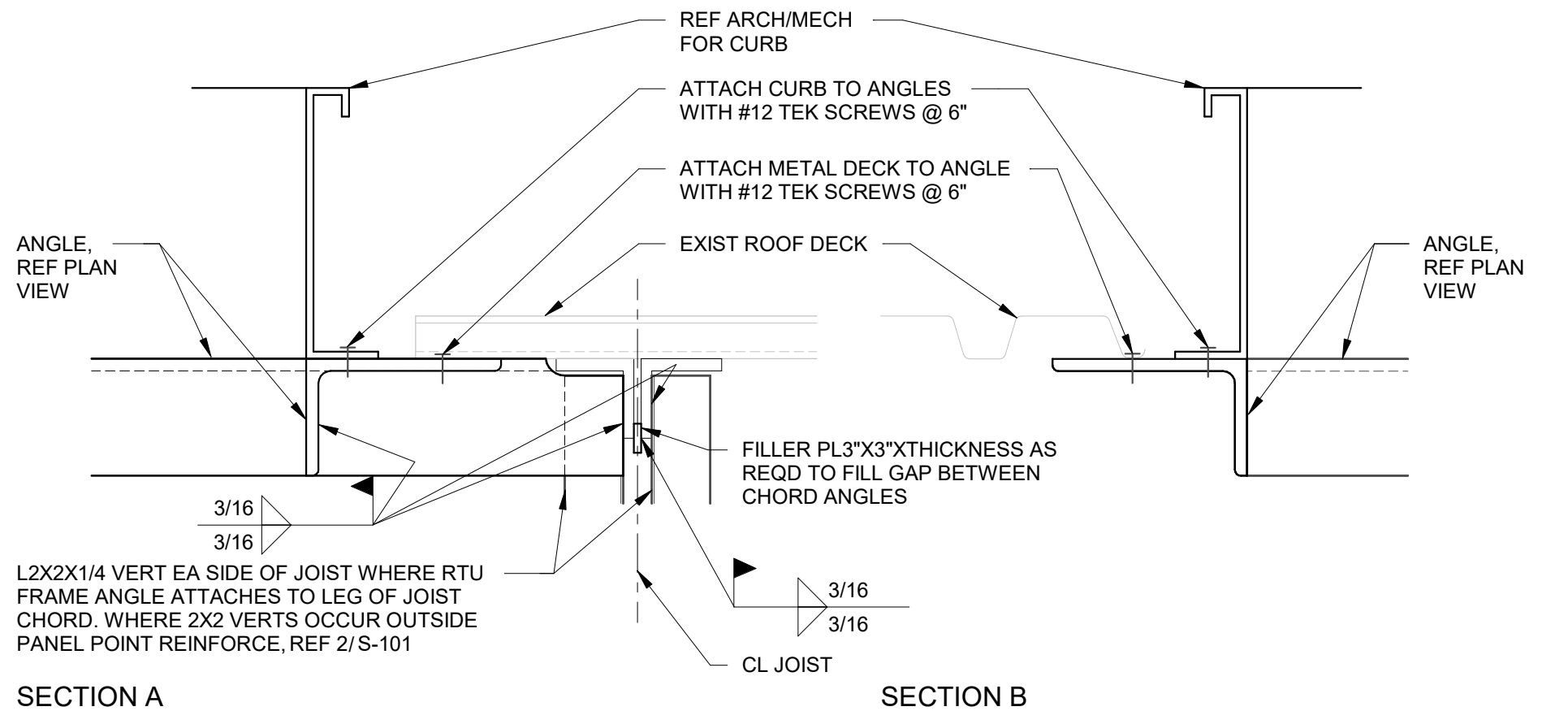
1744 NW CHIPMAN ROAD
LEE'S SUMMIT, MO 64081

DETAILS

| | |
|------------|-------|
| DRAWN BY | AML |
| CHECKED BY | RLH |
| JOB NUMBER | 25303 |
| SHEET NAME | S-101 |

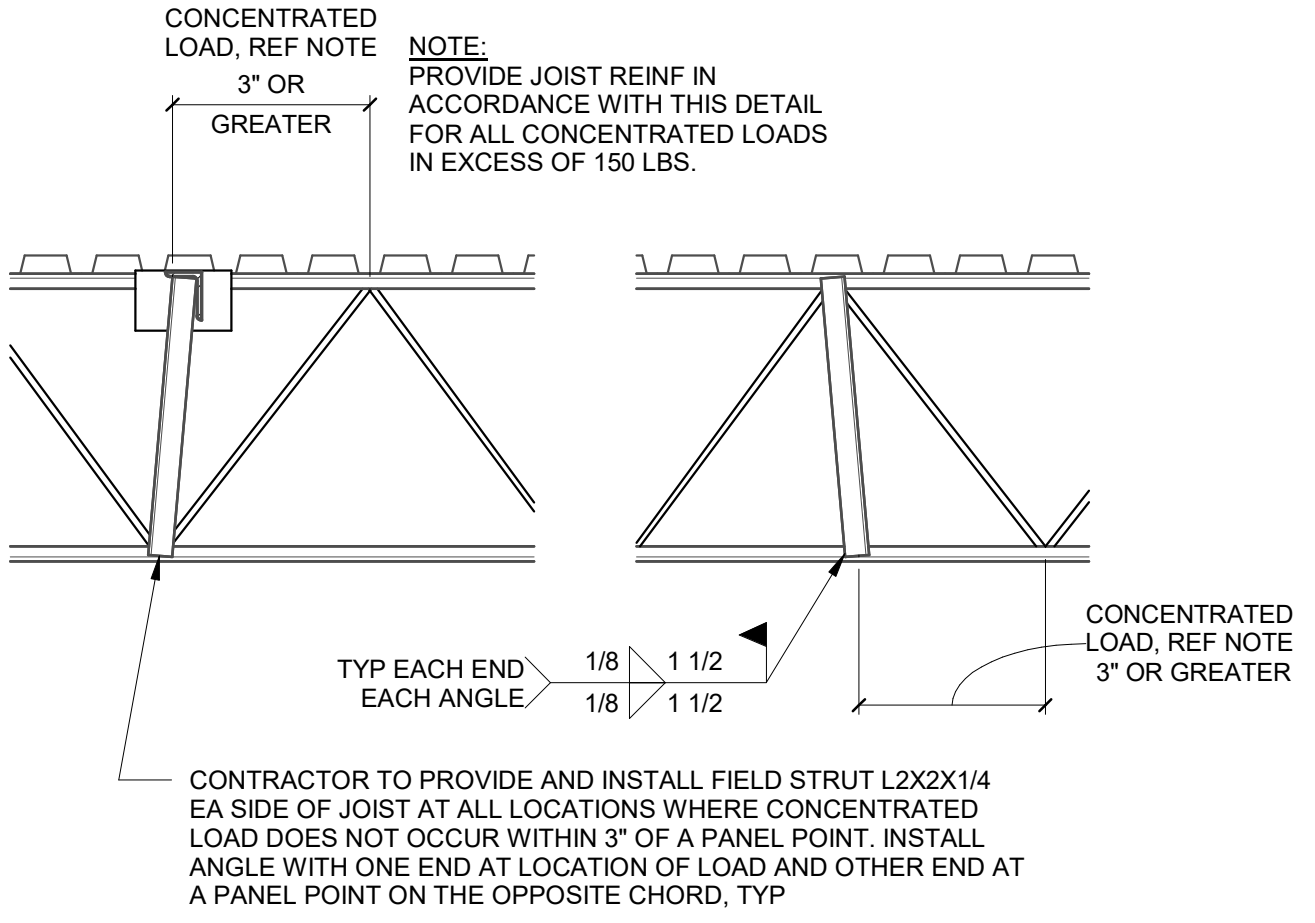
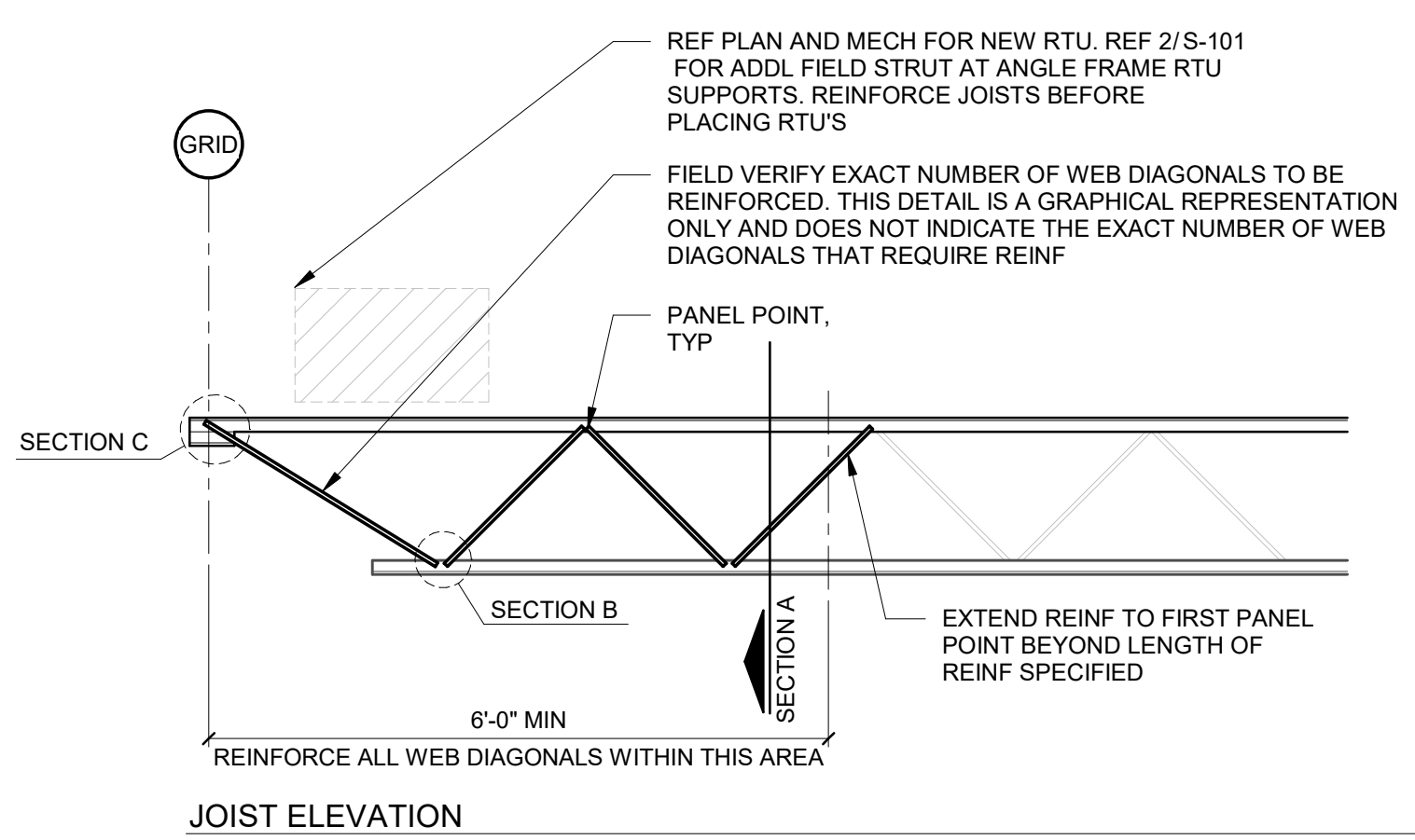


PLAN VIEW



3 RTU SUPPORT FRAMING

3/4" = 1'-0"

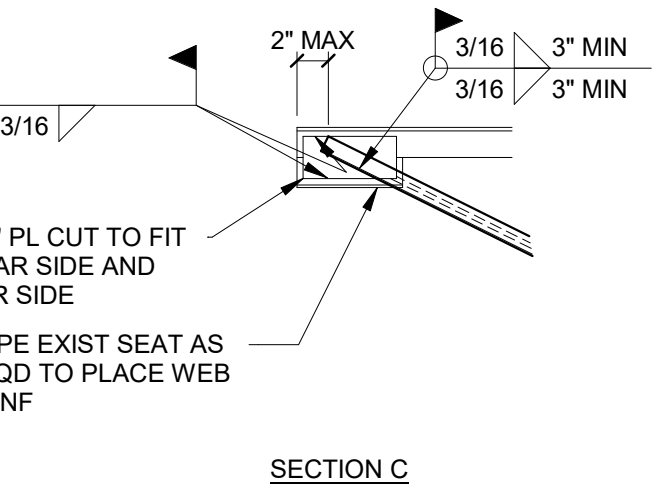
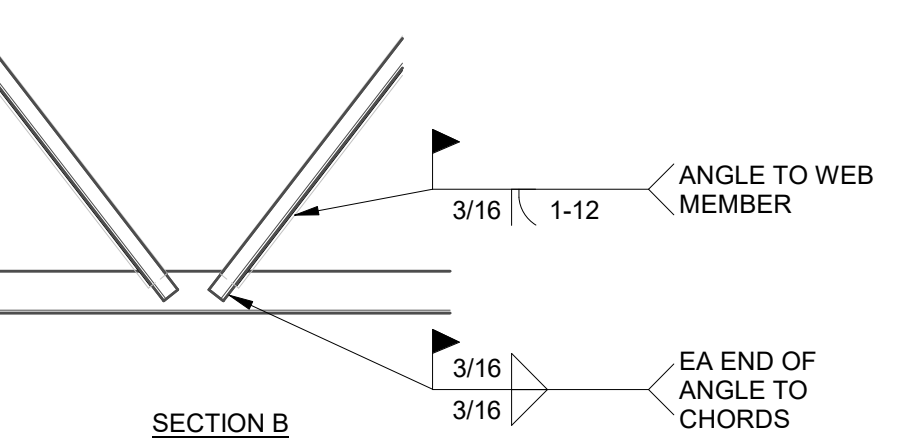
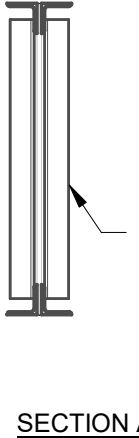


2 JOIST PANEL POINT DETAIL

3/4" = 1'-0"

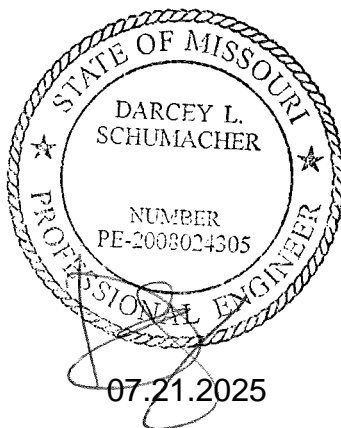
1 JOIST REINFORCING DETAIL

3/4" = 1'-0"



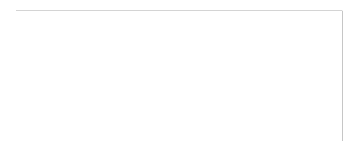
CARHARTT REMODEL
LEE'S SUMMIT, MO
PROJECT NO. 2520281

STRUCTURAL CALCULATIONS
UNIT ANALYSIS



DARCEY SCHUMACHER, P.E.
ENGINEER OF RECORD

00 DESIGN CRITERIA





CODE CHECK

DATE: 7/15/25

TO:

PHONE:

FAX:

ATTN:

EMAIL:

PROJECT: # 2520281 Carhartt Remodel -- Lee's Summit, Missouri

BY:

PHONE

VISIT

OTHER

TIME:

| ITEM | DESCRIPTION | RESPONSE |
|-------------------|---|---|
| 1. GOVERNING CODE | | |
| A. | Local Building Code: | 2018 IBC -- International Building Code |
| B. | Local Amendments: | |
| C. | Do State Building Code Requirements Differ? | |
| D. | Observations Required to be performed by EOR? | |
| E. | Special Inspections Final Report Required for Certificate of Occupancy? | |
| 2. ROOF LIVE LOAD | | |
| A. | Minimum Roof Live Load: | 20 psf |
| 3. SNOW LOAD | | |
| A. | Ground Snow Load, Pg: | 20 psf |
| B. | Minimum Snow Load Applied to Roof: | |
| 4. WIND LOAD | | |
| A. | Design Wind Speed: | 109 mph |
| B. | Risk Category | II |
| 5. SEISMIC LOAD | | |
| A. | Mapped Spectral Response Acceleration, S _s : | .099 (short period, 0.2s) |
| B. | Mapped Spectral Response Acceleration, S ₁ : | .068 (long period, 1.0s) |
| 6. FROST DEPTH | | |
| A. | Minimum Bearing Depth Frost: | |

REMARKS:

Please notify the undersigned if the above information is incorrect or incomplete.

FROM: Rachel Humphrey

CC:

wallace design collective, pc
structural · civil · landscape · survey
1703 wyandotte street, suite 200
kansas city, missouri 64108
816.421.8282 · 800.364.5858
wallace.design

| | |
|---|---|
| Development Services | ▼ |
| Doing Business | > |
| Design | ▼ |
| Development Process | > |
| Design Criteria | ▼ |
| Access Management Code | |
| Building Codes and Amendments | |
| Design & Construction Manual (Infrastructure) | |
| Development Policies | |
| Unified Development Ordinance | |
| Stormwater BMP O&M Manual | |
| Construction | > |
| Community Outreach | > |
| Community Development Block Grant | |
| Fair Housing | |
| Neighborhood Services | > |

Building Codes and Amendments

NOTICE: the City of Lee's Summit adopted the following 2018 Codes, which go into effect on April 1, 2019. All projects received after this date will be subject to the applicable 2018 Codes.

On January 8, 2019, the Lee's Summit City Council adopted new building code regulations ([Ordinance #8536](#)) and a new fire code ([Ordinance #8537](#)). These ordinances adopt provisions from the following nationally published construction codes:

- 2018 International Building Code
- 2018 International Plumbing Code
- 2018 International Mechanical Code
- 2018 International Fuel Gas Code
- 2018 International Residential Code
- 2018 International Fire Code
- 2017 National Electrical Code
- ICC/ANSI A117.1-2009, Accessible and Usable Buildings and Facilities

These codes can be purchased on-line at the [ICC Store](#), or by calling the International Code Council Store at 1.800.786.4452.

Contact the Development Services Department for any questions related to the building related regulations at 816.969.1200 or the Fire Department at 816.969.1300 with any International Fire Code questions.

Development Services

220 SE Green
Lee's Summit, MO 64063

Phone: 816.969.1200
Fax: 816.969.1221
Monday - Friday 8 a.m. - 5 p.m. (except holidays)

Contact Development Services

Subscribe to the City Portal,
the City's monthly e-newsletter

SUBSCRIBE

Helpful Links

- Careers
- City Calendar
- City Council
- City Charter & Code Of Ordinances
- Election Information
- Get Involved
- Maps
- Meeting Agendas & Minutes
- News & Media
- Permits & Licenses
- Recycling & Trash
- Sign Up for Alerts

ASCE Hazards Report

Address:

1744 NW Chipman Rd
Lees Summit, Missouri
64081

Standard:

ASCE/SEI 7-16

Risk Category: II**Soil Class:**

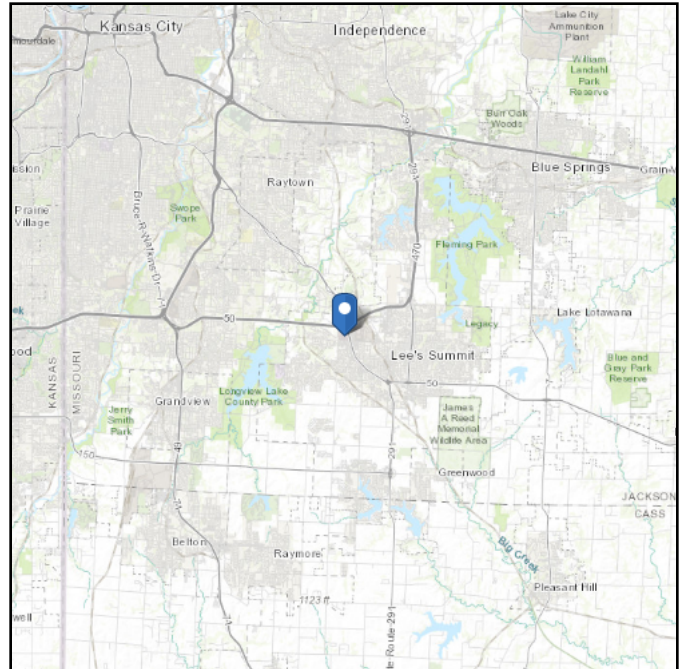
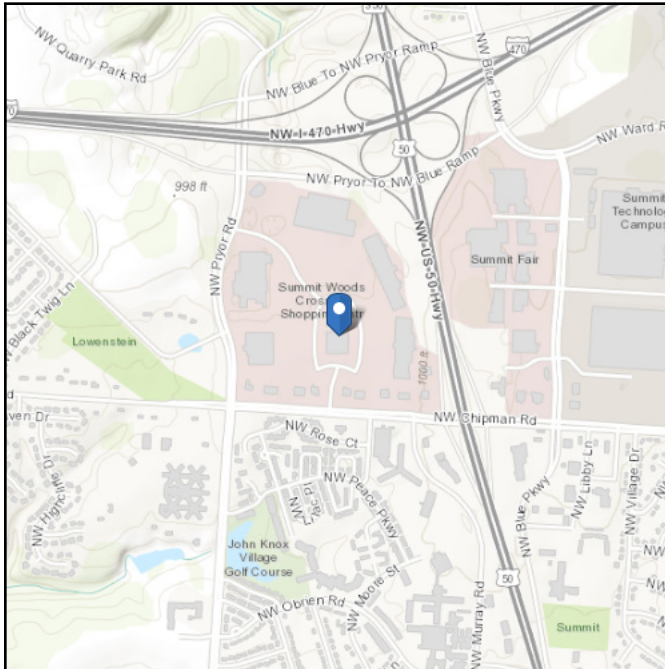
D - Default (see
Section 11.4.3)

Latitude:

38.928281

Longitude: -94.408664**Elevation:**

990.0953955117917 ft
(NAVD 88)



Wind

Results:

| | |
|--------------|----------|
| Wind Speed | 109 Vmph |
| 10-year MRI | 76 Vmph |
| 25-year MRI | 83 Vmph |
| 50-year MRI | 88 Vmph |
| 100-year MRI | 94 Vmph |

Data Source:

ASCE/SEI 7-16, Fig. 26.5-1B and Figs. CC.2-1–CC.2-4, and Section 26.5.2

Date Accessed:

Tue Jul 15 2025

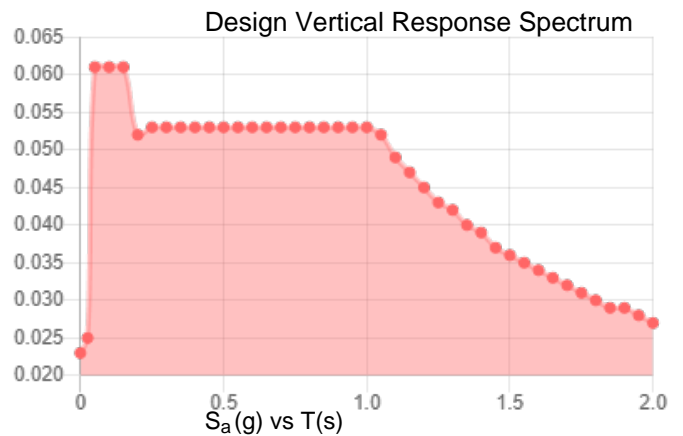
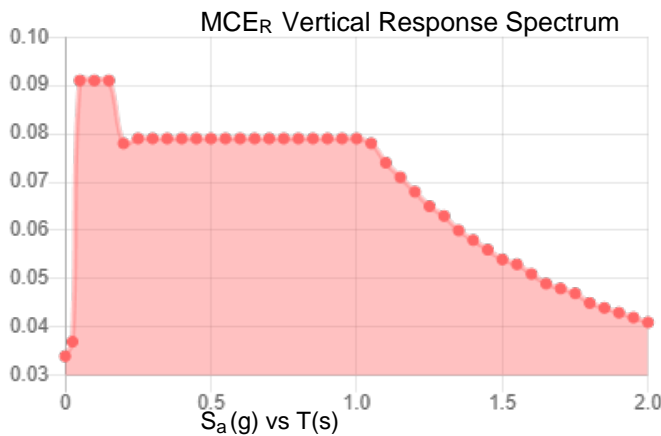
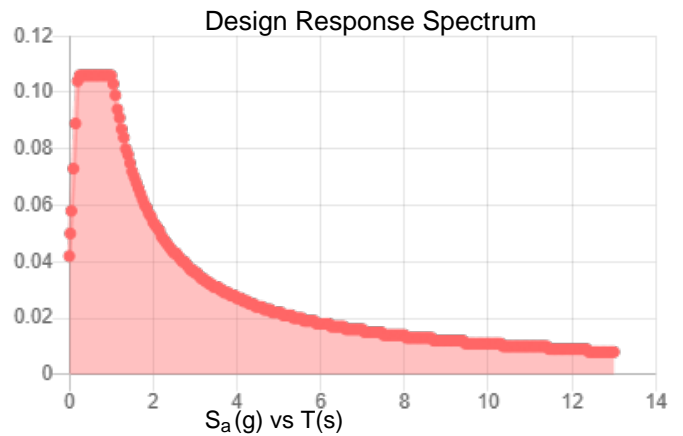
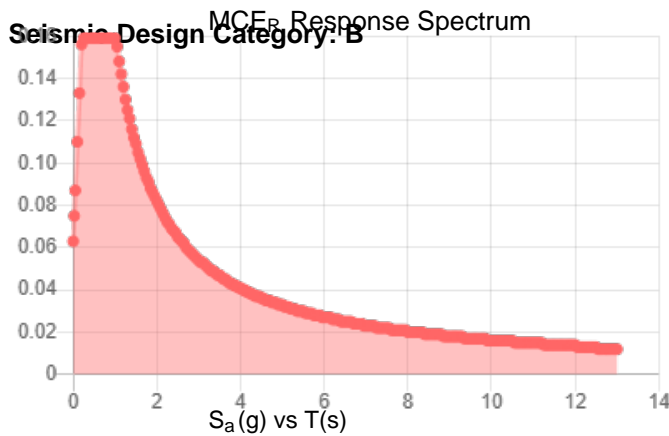
Value provided is 3-second gust wind speeds at 33 ft above ground for Exposure C Category, based on linear interpolation between contours. Wind speeds are interpolated in accordance with the 7-16 Standard. Wind speeds correspond to approximately a 7% probability of exceedance in 50 years (annual exceedance probability = 0.00143, MRI = 700 years).

Site is not in a hurricane-prone region as defined in ASCE/SEI 7-16 Section 26.2.

Site Soil Class: D - Default (see Section 11.4.3)

Results:

| | | | |
|------------|-------|--------------------|-------|
| S_S : | 0.099 | S_{D1} : | 0.109 |
| S_1 : | 0.068 | T_L : | 12 |
| F_a : | 1.6 | PGA : | 0.047 |
| F_v : | 2.4 | PGA _M : | 0.075 |
| S_{MS} : | 0.159 | F_{PGA} : | 1.6 |
| S_{M1} : | 0.163 | I_e : | 1 |
| S_{DS} : | 0.106 | C_v : | 0.7 |



Data Accessed: Tue Jul 15 2025

Date Source:

USGS Seismic Design Maps based on ASCE/SEI 7-16 and ASCE/SEI 7-16 Table 1.5-2. Additional data for site-specific ground motion procedures in accordance with ASCE/SEI 7-16 Ch. 21 are available from USGS.

Results:

| | |
|---------------------------|----------------------------|
| Ground Snow Load, p_g : | 20 lb/ft ² |
| Mapped Elevation: | 990.1 ft |
| Data Source: | ASCE/SEI 7-16, Table 7.2-8 |
| Date Accessed: | Tue Jul 15 2025 |

Values provided are ground snow loads. In areas designated "case study required," extreme local variations in ground snow loads preclude mapping at this scale. Site-specific case studies are required to establish ground snow loads at elevations not covered.

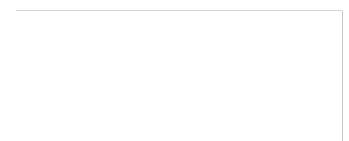
Snow load values are mapped to a 0.5 mile resolution. This resolution can create a mismatch between the mapped elevation and the site-specific elevation in topographically complex areas. Engineers should consult the local authority having jurisdiction in locations where the reported 'elevation' and 'mapped elevation' differ significantly from each other.

The ASCE Hazard Tool is provided for your convenience, for informational purposes only, and is provided "as is" and without warranties of any kind. The location data included herein has been obtained from information developed, produced, and maintained by third party providers; or has been extrapolated from maps incorporated in the ASCE standard. While ASCE has made every effort to use data obtained from reliable sources or methodologies, ASCE does not make any representations or warranties as to the accuracy, completeness, reliability, currency, or quality of any data provided herein. Any third-party links provided by this Tool should not be construed as an endorsement, affiliation, relationship, or sponsorship of such third-party content by or from ASCE.

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01 UNIT ANALYSIS





Date 7/21/25

Sheet No.

of

Job CARHARTT

Subject UNIT ANALYSIS

PLH

CHECK IMPACT OF (N) UNIT IN (E) LOCATION ON (E) STRUCTURE.
COMPARE STRESSES FROM (N) LOADS TO (E) CONDITION. IF STRESSES
INCREASE $\geq 5\%$, REINFORCE JOISTS PER IEBC.

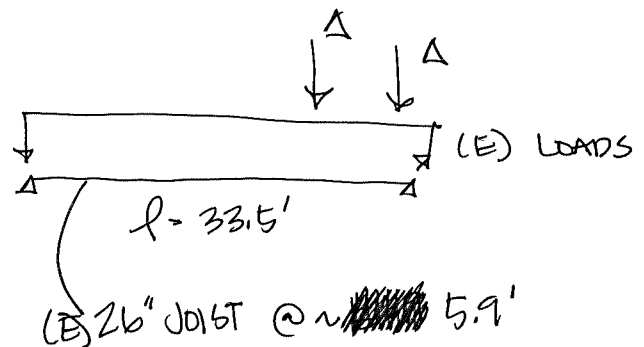
| UNIT | (E) WT | (N) WT | Δ WT | Δ CORNER |
|------|---------|--------------------------------|-------------|-----------------|
| 1 | 15/4# | | | |
| 2 | 500# | 812# + 61# = 873# UNIT CURB | 373# | 93.25# |
| 3 | ABANDON | IN PLACE | | SAY 100# |

■ (E) DEAD LOAD

| | |
|------------|---------------------|
| MEMBRANE | 1 |
| INSULATION | 5 |
| GL DECK | 2 |
| JOISTS | 2 |
| MET/ELC | 3 |
| SPRINKLER | 2 |
| CEILING | 1 |
| | $\leq 16\text{psf}$ |

■ LL = 20psf

* CONTROLS OVER SL



SEE FOLLOWING SHEET FOR
ANALYSIS & REQUIRED
REINFORCING.

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OPEN WEB STEEL JOIST REINFORCING

AISC 360-05 ASD, SJI TD #12

1. Input

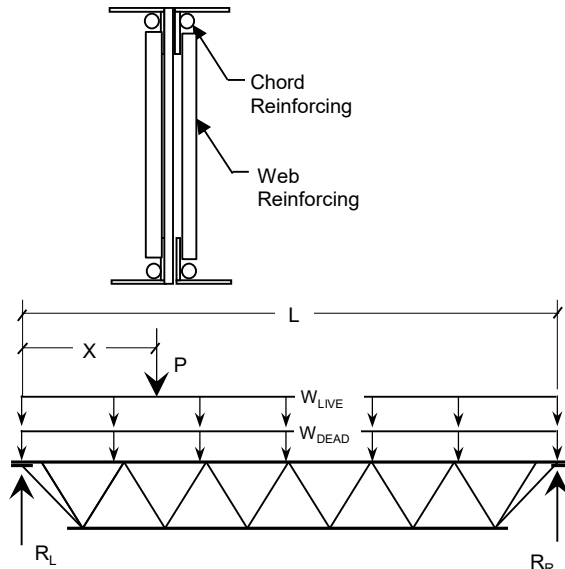
Joist Size =
 Depth, d = **26 in** - (For SP & other series, enter d ,
 Total Load Capacity = **212.4 plf** TL, and LL. For std. K, H, & LH,
 Live Load Capacity = **118 plf** leave blank to import from SJI.)

Length, L = **33.50 ft**
 Tributary Width, s = **5.90 ft**

Dead Load, w_{dead} = **16 psf**
 Const Dead Load = **16 psf** - (Tot DL on joist during reinf)
 Live Load, w_{live} = **20 psf** - (or snow load)
 Collateral Load, w_{col} = **0 psf**

| | | | | | | |
|--------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Point Loads: | 1 | 2 | 3 | 4 | 5 | 6 |
| P (lb) | 100 | 100 | 0 | 0 | 0 | 0 |
| X (ft) | 1.00 | 6.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Point Load Type: **DEAD** (DEAD, or LIVE)

**2. Calculation Summary**Load Conditions:

Dead Load, w_{dead} = 94.4 plf
 Live Load, w_{live} = 118.0 plf
 Collateral Load, w_{col} = 0.0 plf
 Total Load, w_{tot} = 212.4 plf

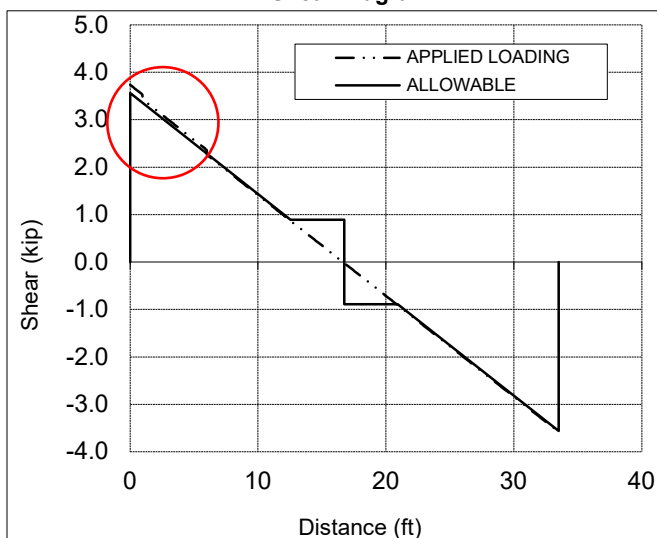
Left Reaction R_L = 3.7 kips
 Right Reaction, R_R = 3.6 kips
 Max Moment = 30.1 k-ft

Joist Capacities:

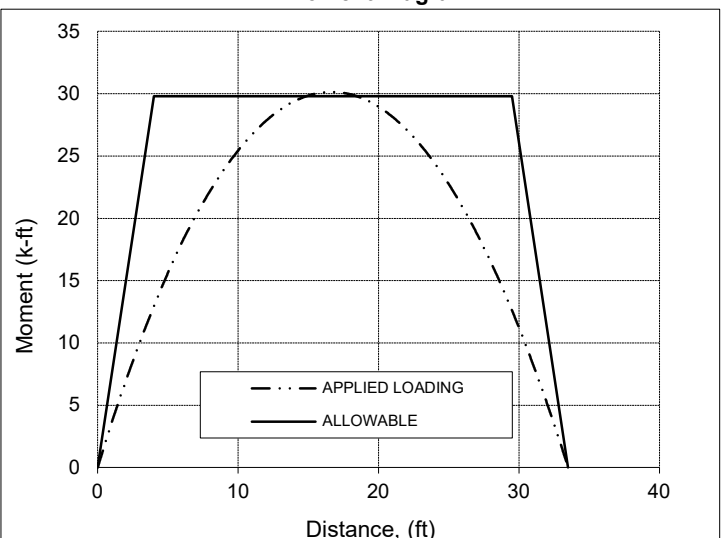
Depth, d = 26 in
 Total Load Capacity = 212.4 plf
 Live Load Capacity = 118.0 plf

Prestress in joist, f_p = 7.1% (due to in-place dead load)

Allowable Shear = 3.6 kips (at end)
 Allowable Moment = 29.8 k-ft
 Stress Reversal = 0.1 ft (left side)

Shear Diagram**5% Overloaded (w/o reinforcing)**

**STRESS INCREASE >5%, JOIST
 REINFORCING REQUIRED PER IEBC**

Moment Diagram**1.2% Overloaded (w/o reinforcing)**

**STRESS INCREASE <5%, NO JOIST
 REINFORCING REQUIRED PER IEBC**

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OPEN WEB STEEL JOIST REINFORCING**3. Reinforcement Calculations****Shear**

Add'l Shear Force Req'd = +/- 0.18 kips
 Force in Web Members:
 Tension = 0.31 kips
 Compression = 0.20 kips

5% Overloaded (w/o reinforcing)**Input**

Web Reinforcing Size: **L1X1X3/16** (ea side)
 Weld Size = **0.1875** in (tot ea member,
 Weld Length = **1.00** in ea end)

Reinforcing Capacity

Tension = 11.83 kips **o.k.**
 Compression = 4.39 kips **o.k.**
 Weld Capacity = 9.54 kips **o.k.**

Moment

Add'l Moment Req'd = 0.35 k-ft
 Add'l Chord Force Req'd = +/- 0.17 kips

1.2% Overloaded (w/o reinforcing)**Input**

Chord Reinforcing Size: **3/8" ROD**
 (2 top and bottom)
 Weld Spacing (Unbraced L) = **24** in

Reinforcing Capacity

Tension = 4.42 kips **o.k.**
 Compression = 0.51 kips **o.k.**

Deflection (Total Load)

Unreinforced Deflection = 1.82 in (L/220)
 Reinforced Deflection = 1.15 in (L/348)

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OPEN WEB STEEL JOIST REINFORCING

REACTIONS

| REACTION | JOIST # | DEAD (LB) | LIVE (LB) | COLLAT. (LB) | P1 (LB) | P2 (LB) | P3 (LB) | P4 (LB) | P5 (LB) | P6 (LB) | TOTAL LIVE (LB) | TOTAL TOTAL (LB) |
|----------|---------|--------------|--------------|-----------------|------------|------------|------------|------------|------------|------------|-----------------------|------------------------|
| LEFT | 1.0 | 1581.2 | 1976.5 | 0.0 | 97.0 | 82.1 | 0.0 | 0.0 | 0.0 | 0.0 | 2155.6 | 3736.8 |

| REACTION | JOIST # | DEAD (LB) | LIVE (LB) | COLLAT. (LB) | P1 (LB) | P2 (LB) | P3 (LB) | P4 (LB) | P5 (LB) | P6 (LB) | TOTAL LIVE (LB) | TOTAL TOTAL (LB) |
|----------|---------|--------------|--------------|-----------------|------------|------------|------------|------------|------------|------------|-----------------------|------------------------|
| RIGHT | 1.0 | 1581.2 | 1976.5 | 0.0 | 3.0 | 17.9 | 0.0 | 0.0 | 0.0 | 0.0 | 1997.4 | 3578.6 |

SUMMARY OF CALCULATIONS

| X | SHEAR | | | | | | | | | | | Reinf | Zero Shear |
|------|---------|---------|--------|------|-------|-----|-----|-----|-----|--|---------|----------|------------|
| | DEAD | LIVE | COLLAT | P1 | P2 | P3 | P4 | P5 | P6 | | | Location | Location |
| 0.0 | 1581.2 | 1976.5 | 0.0 | 97.0 | 82.1 | 0.0 | 0.0 | 0.0 | 0.0 | | 3736.8 | Reinf | |
| 1.0 | 1483.2 | 1854.0 | 0.0 | -3.0 | 82.1 | 0.0 | 0.0 | 0.0 | 0.0 | | 3416.2 | Reinf | |
| 2.0 | 1388.3 | 1735.4 | 0.0 | -3.0 | 82.1 | 0.0 | 0.0 | 0.0 | 0.0 | | 3202.8 | Reinf | |
| 3.0 | 1293.4 | 1616.8 | 0.0 | -3.0 | 82.1 | 0.0 | 0.0 | 0.0 | 0.0 | | 2989.3 | Reinf | |
| 4.1 | 1198.5 | 1498.2 | 0.0 | -3.0 | 82.1 | 0.0 | 0.0 | 0.0 | 0.0 | | 2775.8 | Reinf | |
| 5.1 | 1103.7 | 1379.6 | 0.0 | -3.0 | 82.1 | 0.0 | 0.0 | 0.0 | 0.0 | | 2562.4 | Reinf | |
| 6.1 | 1008.8 | 1261.0 | 0.0 | -3.0 | -17.9 | 0.0 | 0.0 | 0.0 | 0.0 | | 2248.9 | | |
| 7.1 | 913.9 | 1142.4 | 0.0 | -3.0 | -17.9 | 0.0 | 0.0 | 0.0 | 0.0 | | 2035.5 | | |
| 8.1 | 819.1 | 1023.8 | 0.0 | -3.0 | -17.9 | 0.0 | 0.0 | 0.0 | 0.0 | | 1822.0 | | |
| 9.1 | 724.2 | 905.2 | 0.0 | -3.0 | -17.9 | 0.0 | 0.0 | 0.0 | 0.0 | | 1608.5 | | |
| 10.1 | 629.3 | 786.6 | 0.0 | -3.0 | -17.9 | 0.0 | 0.0 | 0.0 | 0.0 | | 1395.1 | | |
| 11.1 | 534.4 | 668.1 | 0.0 | -3.0 | -17.9 | 0.0 | 0.0 | 0.0 | 0.0 | | 1181.6 | | |
| 12.1 | 439.6 | 549.5 | 0.0 | -3.0 | -17.9 | 0.0 | 0.0 | 0.0 | 0.0 | | 968.1 | | |
| 13.1 | 344.7 | 430.9 | 0.0 | -3.0 | -17.9 | 0.0 | 0.0 | 0.0 | 0.0 | | 754.7 | | |
| 14.1 | 249.8 | 312.3 | 0.0 | -3.0 | -17.9 | 0.0 | 0.0 | 0.0 | 0.0 | | 541.2 | | |
| 15.1 | 155.0 | 193.7 | 0.0 | -3.0 | -17.9 | 0.0 | 0.0 | 0.0 | 0.0 | | 327.8 | | |
| 16.1 | 60.1 | 75.1 | 0.0 | -3.0 | -17.9 | 0.0 | 0.0 | 0.0 | 0.0 | | 114.3 | | 16.7 |
| 17.1 | -34.8 | -43.5 | 0.0 | -3.0 | -17.9 | 0.0 | 0.0 | 0.0 | 0.0 | | -99.2 | | |
| 18.1 | -129.7 | -162.1 | 0.0 | -3.0 | -17.9 | 0.0 | 0.0 | 0.0 | 0.0 | | -312.6 | | |
| 19.1 | -224.5 | -280.7 | 0.0 | -3.0 | -17.9 | 0.0 | 0.0 | 0.0 | 0.0 | | -526.1 | | |
| 20.1 | -319.4 | -399.3 | 0.0 | -3.0 | -17.9 | 0.0 | 0.0 | 0.0 | 0.0 | | -739.6 | | |
| 21.1 | -414.3 | -517.8 | 0.0 | -3.0 | -17.9 | 0.0 | 0.0 | 0.0 | 0.0 | | -953.0 | Reinf | |
| 22.1 | -509.1 | -636.4 | 0.0 | -3.0 | -17.9 | 0.0 | 0.0 | 0.0 | 0.0 | | -1166.5 | Reinf | |
| 23.1 | -604.0 | -755.0 | 0.0 | -3.0 | -17.9 | 0.0 | 0.0 | 0.0 | 0.0 | | -1379.9 | Reinf | |
| 24.2 | -698.9 | -873.6 | 0.0 | -3.0 | -17.9 | 0.0 | 0.0 | 0.0 | 0.0 | | -1593.4 | Reinf | |
| 25.2 | -793.8 | -992.2 | 0.0 | -3.0 | -17.9 | 0.0 | 0.0 | 0.0 | 0.0 | | -1806.9 | Reinf | |
| 26.2 | -888.6 | -1110.8 | 0.0 | -3.0 | -17.9 | 0.0 | 0.0 | 0.0 | 0.0 | | -2020.3 | Reinf | |
| 27.2 | -983.5 | -1229.4 | 0.0 | -3.0 | -17.9 | 0.0 | 0.0 | 0.0 | 0.0 | | -2233.8 | Reinf | |
| 28.2 | -1078.4 | -1348.0 | 0.0 | -3.0 | -17.9 | 0.0 | 0.0 | 0.0 | 0.0 | | -2447.2 | Reinf | |
| 30.2 | -1268.1 | -1585.2 | 0.0 | -3.0 | -17.9 | 0.0 | 0.0 | 0.0 | 0.0 | | -2874.2 | Reinf | |
| 32.5 | -1489.5 | -1861.9 | 0.0 | -3.0 | -17.9 | 0.0 | 0.0 | 0.0 | 0.0 | | -3372.2 | Reinf | |
| 33.5 | -1581.2 | -1976.5 | 0.0 | -3.0 | -17.9 | 0.0 | 0.0 | 0.0 | 0.0 | | -3578.6 | Reinf | |

MAX SHEAR = 3737 LBS

<5% STRESS
INCREASE

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OPEN WEB STEEL JOIST REINFORCING

ALLOWABLE

WEQ = 212 PLF

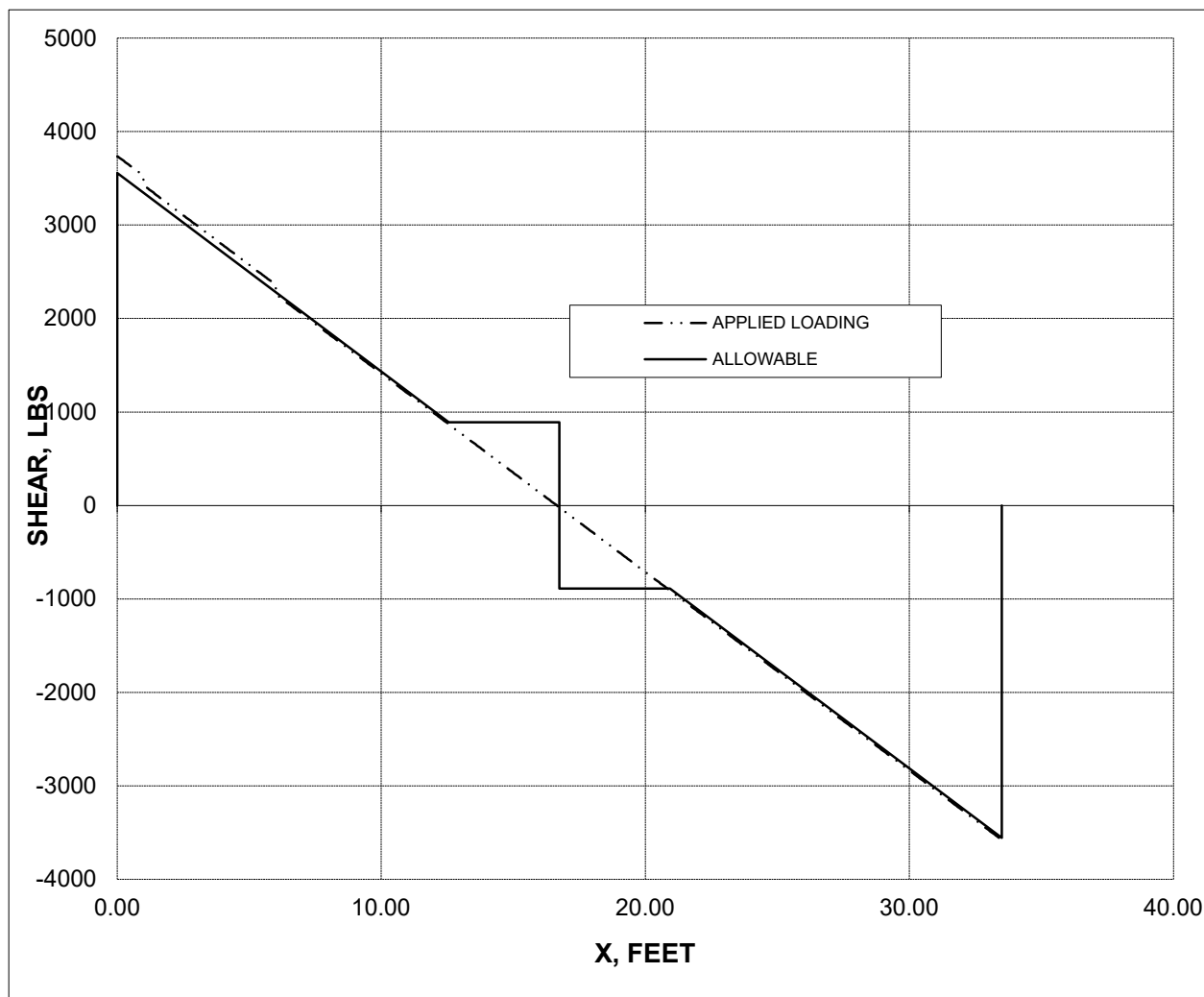
Vr = 3557.7 LB

Vr min = 889.425 LB

MAX SHEAR = 3736.8 LB

ALLOWABLE

| X | SHEAR |
|---------|---------|
| 0 | 0 |
| 0 | 3557.7 |
| 12.5625 | 889.425 |
| 16.75 | 889.425 |
| 16.75 | -889 |
| 20.94 | -889 |
| 33.50 | -3557.7 |
| 33.50 | 0 |



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OPEN WEB STEEL JOIST REINFORCING

$$V_{MAX} = 3.74 \text{ KIPS}$$

$$V_{ALLOW} = W_{ALLOW} L/2 = 3.56 \text{ KIPS} \quad (\text{EVALUATED AT ENDS})$$

$$\text{REQUIRED ADDITIONAL SHEAR FORCE (R}_E\text{)} = \text{MAX}(V - V_{ALLOW}) = \mathbf{0.18 \text{ KIPS}} \quad (\text{AT 14.6 FT FROM LEFT END})$$

DETERMINE FORCE IN WEB MEMBER AT END OF JOIST

$$\phi = 90 - \tan^{-1}(l_1/d) = \mathbf{35.8 \text{ DEGREES}}$$

$$\alpha = \tan^{-1}(2d/l_2) = \mathbf{65.2 \text{ DEGREES}}$$

$$T_E = R_E / \sin \phi = \mathbf{0.31 \text{ KIPS}}$$

$$C_E = T_E (\sin \phi) / \sin \alpha = \mathbf{0.20 \text{ KIPS}}$$

TRY: L1X1X3/16

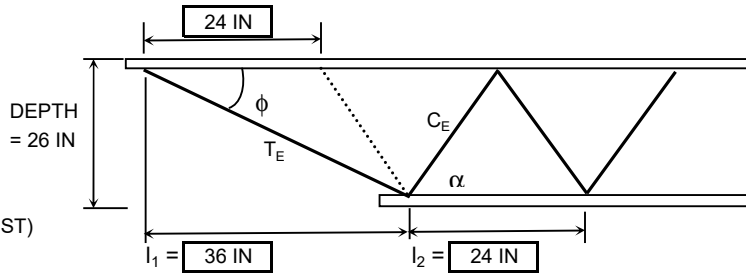
(EA. SIDE OF JOIST)

$$F_y = \mathbf{36 \text{ KSI}}$$

$$E = \mathbf{29000 \text{ KSI}}$$

$$F_u = \mathbf{58 \text{ KSI}}$$

$$\text{WELD: } 0.188 \text{ IN (EA. MEMBER, EA. END)}$$

**JOIST WEB MEMBER LAYOUT****CHECK END WEB REINF AND WELD FOR TENSION**

$$\text{AREA, } A_g = 0.68 \text{ SQ IN} \quad (2 \text{ MEMBERS, ONE EACH SIDE})$$

$$\text{YIELD, } F'_y = 33.44 \text{ KSI} \quad (F'_y = F_y - f_p, \text{ PRESTRESS OF EXISTING JOIST DUE TO DEAD LOAD})$$

$$\text{V LAG, } U = 0.6$$

$$\text{TENSION CAPACITY} = \mathbf{11.83 \text{ KIP}} \quad \text{MEMBER OK FOR TENSION}$$

$$\text{WELD CAPACITY} = \mathbf{9.54 \text{ KIP}} \quad \text{WELD OK FOR TENSION}$$

$$\frac{P_n}{\Omega_t} = \frac{F'_y A_g}{1.67} \leq \frac{F_u U A_g}{2.00}$$

CHECK FIRST COMPRESSION WEB REINF AND WELD

$$\text{LENGTH OF MEMBER} = 28.6 \text{ IN}$$

$$r_x = 0.297 \text{ IN}$$

$$L/r_x = 96$$

$$(KL/r)' = 153 \text{ (FOR ANGLES ONLY)}$$

$$KL/r = 153 \text{ (USED)}$$

$$KL/r \text{ lim} = 200$$

$$F_e = 12.30 \text{ KSI}$$

$$F_{cr} = 10.79 \text{ KSI}$$

$$\text{COMP CAPACITY} = \mathbf{4.39 \text{ KIP}} \quad \text{MEMBER OK FOR COMPRESSION}$$

$$\text{WELD CAPACITY} = \mathbf{9.54 \text{ KIP}} \quad \text{WELD OK FOR COMPRESSION}$$

Angles

$$b/t \leq \lambda_c$$

$$L/r_x \leq 80 \rightarrow (KL/r)' = 72 + 0.75L/r$$

$$L/r_x > 80 \rightarrow (KL/r)' = 32 + 1.25L/r \leq 200$$

$$F_e = \frac{\pi^2 E}{(KL/r)^2}$$

$$F_e \geq 0.44 F'_y \rightarrow F_{cr} = F'_y (0.658)^{F'_y/F_e}$$

$$F_e < 0.44 F'_y \rightarrow F_{cr} = 0.877 F_e$$

$$\frac{P_n}{\Omega_c} = \frac{F_{cr} A_g}{1.67}$$