451 SE OLDHAM PARKWAY UNIT C LEE'S SUMMIT MISSOURI





AIR CONDITIONING **ACCOUSTICAL** ACCOUSTICAL TILE ABOVE FINISHED FLOOR ALTERNATE ALUMINUM ANOD **ANODIZED** APPROX APPROXIMATEL` ARCH ARCHITECTURAL ASPH ASPHALT

FDN FFE BELOW FINISHED FLOOR FLR BUILDING FRP BRG BEARING BRITISH THERMAL UNIT CIRCUIT GA CUBIC FEET/MINUTE

CONTROL JOINT CLG CEILING CLR CLEAR CONCRETE MASONRY CONDUIT CLEAN OUT COL COLUMN CONCRETE CONSTRUCTION CONT CONTINUOS CERAMIC TILE CW

COLD WATER DIAMETER DIM DIMENSION DISCONNECT DN DOWN DOOR DOWNSPOUT DETAIL

EACH EXPANSION JOINT ELECTRIC/ELECTRICAL **EMERG** EMERGENCY ELECTRICAL PANEL **EQUAL** EQUIPMENT EACH WAY **EXHAUST EXPANSION** 

EΑ

ELEC

EΡ

EQ

EW

FXH

GALV

GND

INSUL

EQUIP

FLOOR DRAIN FOUNDATION FINISHED FLOOR ELEVATION FLOOR **FIBERGLASS** REINFORCED PLASTIC FOOT

**GAUGE GALLON** GALVANIZED GROUND GYPSUM

GYP HOSE BIBB HDWR HARDWARE HORZ HORIZONTAL HP HORSE POWER HR HOUR HTG HEATING HTR **HEATER** HWHOT WATER

INSIDE DIAMETER REINF INCHES REQD INSULATION

JUNCTION BOX JOINT LAVATORY

MIN

NIC

NOM

NTS

MAXIMUM MECH **MECHANICAL** METAL MFG MANUFACTURER MINIMUM MISC MISCELLANIOUS

NOT IN CONTRACT NOMINAL NOT TO SCALE ON CENTER

OD OUTSIDE DIAMETER OVERHEAD ОН PLATE PLUMB PLUMBING PANEL

PLYWD PLYWOOD PNL PREFAB PREFABRICATED PSF POUNDS/SQUARE FOOT POUNDS/SQUARE INCH PSI PVC POLYVINYL CHLORIDE QUARRY TILE

RECEPTACLE RECESSED REFERENCE REINFORCING REQUIRED

ROUGH OPENING RIGHT OF WAY ROOF TOP UNIT SCHEDULE

SQUARE FEET SIMILAR SPEC SPECIFICATION SPEAKER

STRUC STRUCTURAL TEMP TEMPORARY TYP TYPICAL

UNDERWRITER LABORATORIES UNLESS NOTED OTHERWISE UTIL UTILITIES

**VEST** VESTIBULE VENT THROUGH ROOF VTR WITH

WOOD

WEIGHT

YARD

WATER CLOSET

WELDED WIRE FABRIC

WC

WD

WWF

PERSONNEL

1. CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO ANY WORK.

2. SUB-CONTRACTOR TO VERIFY FIELD CONDITIONS AND MEASUREMENTS, AND TO PROMPTLY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES WITH PLANS.

3. REMOVE DEBRIS, RUBBISH, AND OTHER MATERIALS RESULTING FROM CONSTRUCTION OPERATIONS FROM THE BUILDING SITE. PROVIDE AN ON-SITE DUMPSTER FOR DISPOSAL OF DEMOLISHED AND RUINED MATERIALS.

4. UPON COMPLETION OF WORK, REMOVE TOOLS, FOUIPMENT, AND CONSTRUCTION DEBRIS FROM SITE, REMOVE PROTECTIONS AND LEAVE INTERIOR AREAS BROOM CLEAN

PROVIDE TEMPORARY BARRICADES AND OTHER FORMS OF PROTECTION AS REQUIRED TO PROTECT GENERAL PUBLIC FROM INJURY DUE TO CONSTRUCTION. PROVIDE PROTECTIVE MEASURES AS REQUIRED TO PROVIDE FREE AND SAFE PASSAGE OF OWNER'S

6. ALL WORK SHALL COMPLY WITH APPLICABLE CODES AND INDUSTRY STANDARDS.

FRAMING SUBCONTRACTOR IS REQUIRED TO NOTIFY ARCHITECT FOR VERIFICATION & APPROVAL OF LAYOUT PRIOR TO PROCEEDING WITH FRAMING.

MAINTAIN EXISTING UTILITES INDICATED TO REMAIN, KEEP IN SERVICE, AND PROTECT AGAINST DAMAGE DURING CONSTRUCTION

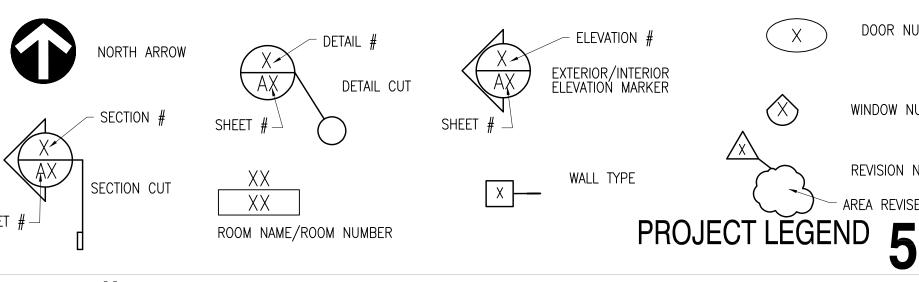
9. DISPOSE OF ALL DEBRIS TO APPROVED DUMP SITE.

10. ALL STRUCTURAL WOOD PANELS & WOOD BLOCKING TO BE FIRE TREATED.

DOOR NUMBER

WINDOW NUMBER

REVISION NUMBER



ABBREVIATIONS C



general contractor: **ROSE CONSTRUCTION** P.O. Box 100 Olathe, Kansas 66051 913.782.0777 913.782.0998 www.buildwithrose.com

architect: DESIGN GROUP ROSE DESIGN GROUP INC

P.O. Box 100

Olathe, Kansas 66051 (P) 913.782.0777

(F) 913.782.0998

www.buildwithrose.com

PHELPS Engineering, Pac EMGINEERING-PLANNING-GURVEYING
CONSTRUCTION MANAGEMENT
1270 IL WINCHESTER CLATHE, KB 00001
(918)308-115 - PAX(918)388-1166

civil engineer: PHELPS ENGINEERING, INC. 1270 N. Winchester Olathe, Kansas 66061 (P) 913.393.1155 (F) 913.393.1166 www.phelpsengineering.com

mechanical enginee

**5BY5 ENGINEERS** 1828 Walnut Street Kansas City, Missouri 64108 (P)913-777-4999 <sup>'</sup>5by5eng.com

BOB D. CAMPBELL & CO., INC. 4338 Belleview Kansas City, Missouri 64111 (P) 816.531.4144 (F) 816.531.8572 www.bdc-engrs.com

structural engineer:

PROJECT TEAM 4



LOCATION MAP 2

### CODES USED

2018 INTERNATIONAL BUILDING CODE (IBC) 2018 INTERNATIONAL MECHANICAL CODE 2018 UNIFORM PLUMBING CODE 2018 INTERNATIONAL FIRE CODE 2017 NATIONAL ELECTRICAL CODE 2012 INTERNATIONAL ENERGY CODE

### **IBC CHAPTER 3 - USE & CLASSIFICATION**

OCCUPANCY GROUPS: **GROUP S1** 4,200 S.F. S1 AREA: IBC CHAPTER 5 - BUILDING AREA & HEIGHTS

CONSTRUCTION TYPE VB BUILDING FOOT PRINT AREA: 4,200 S.F. TABLE 506.2 ALLOWS FOR 9,000 SF ALLOWABLE 1 STORY & 40' IN BUILDING HT **ACTUAL BUILDING STORIES: 1** ACTUAL BUILDING HT: 22'-3" (ROOF RIDGE LINE)

### **IBC CHAPTER 6 - TYPES OF CONSTRUCTION**

NON SPRINKLERED BUILDING

TABLE 601: FIRE RESISTANT RATINGS STRUCTURAL FRAME 0-HOUR **BEARING WALLS: EXT** 0-HOUR BEARING WALLS: INT. 0-HOUR NON-BEARING WALLS: EXT. 0-HOUR NON-BEARING WALLS: INT. 0-HOUR FLOOR CONSTRUCTION: 0-HOUR ROOF CONSTRUCTION: 0-HOUR

**IBC CHAPTER 8 - INTERIOR FINISHES** 

EXITS ARE NOT LESS THAN 1/2 THE DIAGONAL **DIMENSION APART** 

ALL INTERIOR FINISH MATERIALS SHALL HAVE A MIN CLASS 'C' FLAME SPREAD CLASSIFICATION OR BETTER

### IBC CHAPTER 10 - MEANS OF EGRESS

TABLE 1004.1.2 OCCUPANT LOAD FACTOR

OCCUPÁNT ĽOAD = 100 GRÓSS 4,200/100 = 42 O.L.SECTION 1005 EGRESS WIDTH 2.2 X 42 = 8.4" (72" PROVIDED)

SECTION 1006 EXIT & EXIT ACCESS DOORWAYS 2 EXITS REQUIRED, 2 EXITS PROVIDED

SECTION 1006 EXIT ACCESS TRAVEL DISTANCE TABLE 1006.2; 100' TRAVEL MAX TRAVEL DISTANCE ALLOWED

CODE REVIEW 2

**DEFERRED SUBMITTALS:** FOLLOWING BUILDING COMPONETS SHALL BE SUBMITTED TO LEES SUMMIT FOR REVEIW AND APPROVAL PRIOR TO INSTALLATION

1. ROOF WOOD TRUSSES

### SHEET INDEX

### CIVIL:

**EXISTING CONDITIONS** C0.1 DEMOLITION PLAN C0.2 DEMOLITION PLAN SITE PLAN ENLARGED SITE PLAN ENLARGED SITE PLAN ENLARGED SITE PLAN ENLARGED GRADING PLAN ENLARGED GRADING PLAN ENLARGED GRADING PLAN UTILITY PLAN EROSION CONTROL PLAN EROSION CONTROL DETAILS PAVEMENT DETAILS PAVEMENT DETAILS

### **ARCHITECTURAL:**

SANITARY & WATER DETAILS

LANDSCAPE PLAN

C5.2

COVER SHEET PHASE I SITE PLAN PHASE II SITE PLAN FLOOR PLAN & ELEVATIONS SCHEDULES WALL SECTIONS WALL SECTIONS WALL SECTIONS

### STRUCTURAL:

GENERAL NOTES FOUNDATION PLAN ROOF FRAMING PLAN & SECTIONS

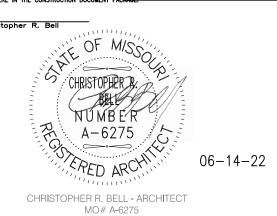
### MP DESIGN:

MECHANICAL PLAN MECHANICAL SCHEDULES PLUMBING PLAN PLUMBING SCHEDULES & DETAILS

### **ELECTRICAL DESIGN**

ELECTRICAL POWER PLAN ELECTRICAL LIGHTING PLAN E3.0 ELECTRICAL SCHEDULES & DETAILS

SHEET INDEX







ARCHITECTS - PLANNERS A Division of Rose Design Build

FAX: 913-782-0998 P.O. BOX 100 OLATHE, KS 66051

www.BuildWithRose.com AUTHORITY # A-83



## NG FOR:

SHOP

**BODY** 

PROPOSED

DATE ISSUED:

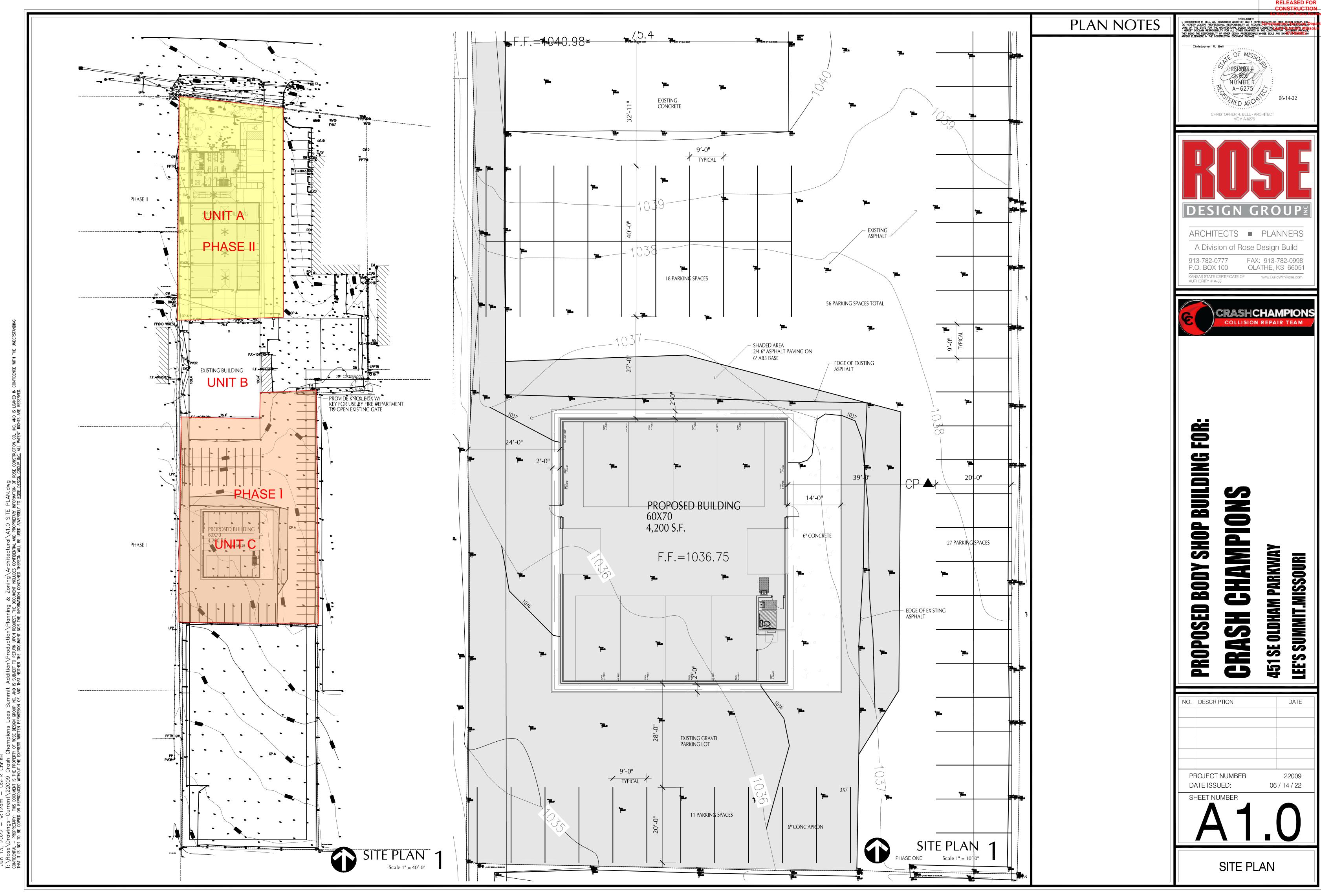
PARKWAY **SUMMIT.MISSOURI** OLDHA! 451

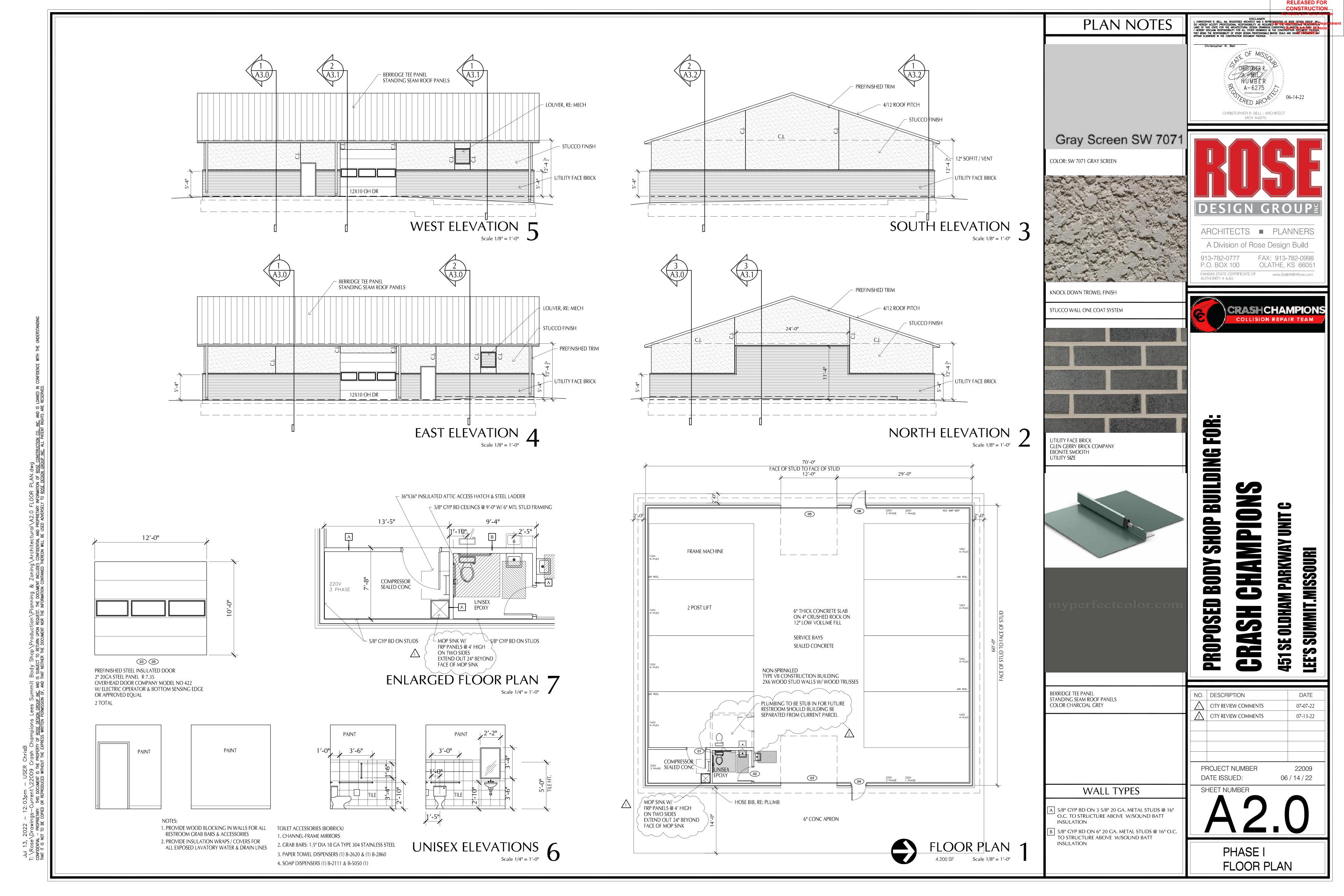
DATE NO. DESCRIPTION /1\ CITY REVIEW COMMENTS PROJECT NUMBER 22009

SHEET NUMBER

06 / 14 / 22

**COVER SHEET** 





PLAN	

NOTES

B1 GYP BD WALLS ONLY

03	UNISEX	F1	В2	W3	W3	W3	W3	C1	9'-0"		
				FINIS	H LEG	END					
SYMBOL	PRODUCT	MANUFA	MANUFACTURER				/ COLOR				NOTES
FLOORING	G	•						·			
F1	EPOXY FLOORING	DUR-A-	FLEX	SHOP FLC	OR	DOUBLE	BROADCAS	T - GRA	Y SPECK	LED	3
F2	SEALED CONCRETE	PROSO	CO			CONSOLI	DECK-SB & I	LS SYST	EMS W/ J	OINT FILLER	
WALLS	WALLS										
W1	PAINT	S.W. PR	OMAR	400 EGGSI	HELL	SW CUSTO	OM SHOP CO	OLOR			2
W2	PAINT	S.W. PR	OMAR	. 400 EGGSI	HELL	SW CUSTO	5				
W3	CERAMIC TILE & PAINT	S.W. PR	OMAR	. 400 EGGSI	HELL	SW 7653- S	ILVERPOIN	TE			1
W4	PAINT	S.W. PR	OMAR	. 400 EGGSI	HELL	SW 7653- S	ILVERPOIN	TE			
BASE		•									•
B1	4" RUBBER BASE	ROPPE				700 SERIE	S, 129 DOLP	HIN	_		
B2	6" EPOXY BASE										
CEILING	•	•				•					·

FLOOR NORTH SOUTH EAST WEST

W1 W1

NOTES:

NO.

01 COMPRESSOR

02 SHOP

1. CERAMIC WALL TILE SIZE: 12" X 24" X 1/4",TROVATA - DIARY, MANUF: EMSER, PAINT ABOVE, GROUT: MAPEI, COLOR: T.B.D.

ARMSTRONG

FINISH SCHEDULE

F2 | B1 | W1 | W1 |

2. 60"TALL WAINSCOT FOR CUSTOM COLOR

C1 2X2 ACOUSTICAL TILE

**ROOM NAME** 

- 3. PROVIDE TRANSITION STRIPS WHERE REQUIRED

  4. DOOR FRAME COLOR: SW MATCH RUBBER BASE DOLPHIN EGGSE
- 4. DOOR FRAME COLOR: SW MATCH RUBBER BASE DOLPHIN EGGSHELL 5. PAINT COMBO COLOR ON SHOP SIDE OF GYP BD WALLS
- SHERWIN-WILLIAMS 703265 08/29/21 815-469-7557 0rder# 0321217 INTERIOR ARCHITECTURAL LATEX SEMI-GLOSS IFC 6012NP INTERIOR SHOP GRAY CUSTOM MANUAL MATCH

  CCE\*COLORANT 0Z 32 64 128 W1-White 4 48 - 1 B1-Black 30 13 1 1

- 38 1 1

10 - - -

12 27 - 1

DEEP

650187230

SW CUSTOM SHOP COLOR

B31W02653

R2-Maroon

R3-Magenta Y1-Yellow



EPOXY COLOR SAMPLE

	DOOR SCHEDULE										
		AILS	<u>چ</u>	₩	<u>ح</u>	>					
DOOR NO.	DOOR SIZE	HEAD	JAMB	DOOR	FRAI	RATIN.	HRDW	REMARKS			
01	$4^{0} \times 7^{0} \times 13/4$ "			1	A		2				
02	$3^{0} \times 7^{0} \times 13/4$ "			1	A		3				
04	3 <sup>0</sup> X 7 <sup>0</sup> X 1 3/4"			1	A		1				
06	3 <sup>0</sup> X 7 <sup>0</sup> X 1 3/4"			1	A		1				

HARDWARE SET 2 US32D

HARDWARE SET 3 US32D

3 EA HINGES (4.5X4.5)

1 EA LEVER PRIVACY

1 EA PASSAGE SET

1 WALL STOP

1 WALL STOP

3 EA HINGES (4.5X4.5) US32D

ULTIMA BEVELED TEGULAR 1911A

### HARDWARE SCHEDULE

HARDWARE SET 1 US32D
3 EA BB NRP HINGES (4.5X4.5)
1 EA PANIC HARDWARE
1 EA THRESHOLD 3/0

1 EA THRESHOLD 3/0 1 EA SWEEP 1 EA WEATHERSTRIP 3/0 X 7/0

1 EA ALUM CLOSER

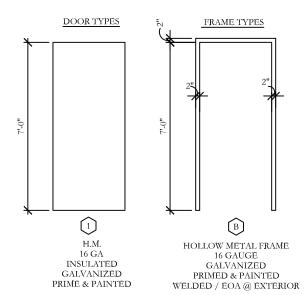
HARDWARE SPECS:
DOOR LEVER: CAL-ROYAL PIONEER SL SERIES (SL)
OR APPROVED EQUAL

CLOSURES: LCN 4040 SERIES APPROVED EQUAL: CAL-ROYAL 900 SERIES PANIC HARDWARE: VON DUPRIN #9848 APPROVED EQUAL: CAL-ROYAL 9800 RIM TYPE SHALL MEET REQUIRMENTS PER IBC SECTION 1008.1.10

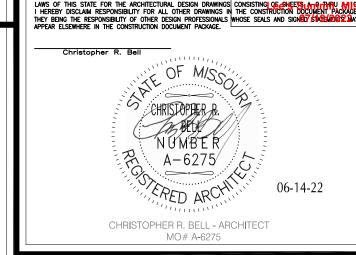
INTERIOR HINGES: STANDARD WEIGHT BALL BEARING CONCEALED EXTERIOR HINGES:

HEAVY WEIGHT BALL BEARING CONCEALED

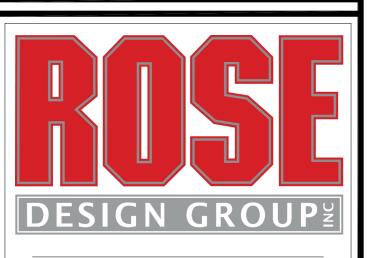
ALL COMMERCIAL HARDWARE GRADE LEVEL 1



PLAN NOTES



CONSTRUCTION



ARCHITECTS PLANNERS

A Division of Rose Design Build

913-782-0777 FAX: 913-782-0998
P.O. BOX 100 OLATHE, KS 66051

KANSAS STATE CERTIFICATE OF AUTHORITY # A-83

Www.BuildWithRose.com



# PROPOSED BODY SHOP BUILDING FOR: CRASH CHAMPIONS 451 SE OLDHAM PARKWAY

NO. DESCRIPTION DATE

PROJECT NUMBER 22009

LEE'S SUMMIT.MISSOURI

06 / 14 / 22

DATE ISSUED:

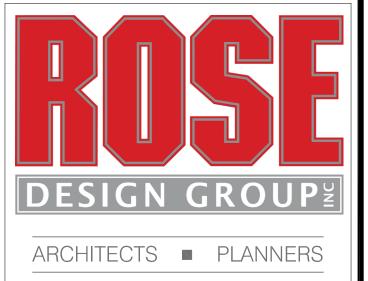
SHEET NUMBER

A2.1

FINISH SCHEDULES

FINISH SCHEDULES Scale N.T.S.

Jun 13, 2022 — 11:36am — USER ChrisB T:\Rose\Drawings—Current\22009 Crash Champions Lees Summit Addition\Pro conFIDENTAL - PROPRIETARY: THIS DOCUMENT IS THE PROPERTY OF <u>ROSE DESIGN GROUP INC.</u> AND IS SUBJECT TO RETL











difficulties affecting the work before proceeding. 2. The contractor shall coordinate all disciplines, verifying size and location of all openings, whether shown on structural drawings or not, as called for on architectural, mechanical, or electrical drawings. Conflicts, inconsistencies, or other difficulties affecting structural work shall be

called to the architect or engineer's attention for direction before

- 3. All design and construction work for this project shall conform to the requirements of the 2018 International Building Code, as amended by the City of Lees Summit, MO.
- . These drawings are for this specific project and no other use is
- 5. Structural Design Load Criteria:
- A. Roof Live= 25 psf
- B. Snow= Pg = 20psf, Pf=14psf,ls = 1.0 Ce=1.0, Ct=1.0, Drift per ASCE/SEI 7-10
- C. Lateral Loads: 1.) Wind  $\vee$  = 115 mph, exposure 'C' Occupancy [Risk] Category II, Iw=1.0
  - GCpi=+/-0.18 Design wind pressures to be used for the design of exterior component and cladding materials on the designated zones of wall and roof surfaces shall be per section 30.7 and Table 30.7-2 of ASCE/SEI 7-10. Tabulated pressures shall be multiplied by effective area reduction factors,

exposure adjustment factors, and topographic factors where

2.) This project is designed to resist the most critical effects resulting from the load combinations of section 1605.3 of the 2018 International Building Code.

### 6. Concrete:

- All concrete for grade beams shall develop minimum ultimate compressive design strength of 3500 psi in 28 days, but not less than 500 pounds of cement shall be used per cubic yard of concrete regardless of strengths obtained, not over 6 gallons of water per 100 pounds of cement and not over 4 inches of slump.
- All concrete for interior flat work shall develop minimum ultimate compressive design strength of 4000 psi in 28 days, but not less than 560 pounds of cement shall be used per cubic yard of concrete regardless of strengths obtained, not over 5 gallons of water per 100 pounds of cement and not over 4 inches of slump.
- All concrete for exterior flatwork shall have a minimum design compressive strength of 4500 psi in 28 days, with not less than 560 pounds of cement per cubic yard of concrete, not over 5 gallons of water per 100 pounds of cement, with 6% +/- 1% air entrainment, and a maximum of 4 inches of slump.
- The preceding minimum mix requirements may have water-reducing admixtures conforming to ASTM C494 added to the mix at manufacturer's dosage rates for improved workability.
- The preceding minimum mix requirements may have up to 15% maximum of the cement content replaced with an approved ASTM C618 Class C fly ash, provided the total minimum cementitious content is not
- Combined aggregate (coarse plus fine) for all concrete shall be well graded from coarsest to finest with no more than 18 percent and not less than 8 percent retained on an individual sieve, except that less than 8 percent may be retained on coarsest sieve and on No. 50 and finer sieves. Submit this gradation report with the concrete mix design shop drawings
- All interior concrete slabs on grade shall be placed over 15 mil, Class A Vapor Barrier per ASTM E1745 with less than O.O.I perms, tested after mandatory conditioning. All joints shall be lapped and sealed per manufacturer's recommendations. All penetrations, as well as damaged vapor barrier material shall also be sealed per manufacturer's recommendation prior to concrete placement. Install barrier per manufacturer recommended details at all discontinuous edges (at interior columns, exterior edge of slab, etc.) to ensure terms of warranty are followed. The vapor barrier shall be placed over free-draining granular material as prescribed by the project
- All concrete is reinforced concrete unless specifically called out as unreinforced. Reinforce all concrete not otherwise shown with same steel as in similar sections or areas. Any details not shown shall be detailed per ACI 315 and meet requirements of ACI 318, current
- Contractor shall verify that all concrete inserts, reinforcing and embedded items are correctly located and rigidly secured prior to concrete placement.
- Construction joints in grade beams shall occur at midspan (middle third) unless noted otherwise. Provide  $2 \times 4$  horizontal keys at construction joints for shear transfer.
- No aluminum items shall be embedded in any concrete

### Reinforcing Steel:

- All reinforcing steel shall conform to the requirements of ASTM A615 or A706 grade 60 steel. Welded plain wire fabric shall be supplied in sheets and conform to the requirements of ASTM A1064.
- Clear coverage of concrete over reinforcing steel shall be as Concrete placed against earth — Formed concrete against earth -
- All coverage shall be nominal bar diameter minimum. At corners of all grade beams supply corner bars (minimum 2'-6" in
- each direction or 48 bar diameters) in outside face of wall, matching size and spacing of horizontal bars. Bars marked continuous shall be lapped 48 bar diameters (2'-6"
- minimum) at splices. Accessories shall be as specified in latest edition of the ACI Detailing Handbook and the concrete Reinforcing Steel Institute Design Handbook. Maximum accessory spacing shall be 4'-0" on center, and all accessories on exposed surfaces are to have plastic
- coated feet. All slabs not shown otherwise shall be 6" thick with #4 bars at 12" on center each way. Slope porches 1/8" per foot for drainage unless noted otherwise.

### Foundations:

RCI2210.00 Dwgs\S1 is subject to return upon that neither the document

NS AS

ROSE DESIGN WRITTEN PER

Ď ₽ĸĸ

USE 00 81.

- Spread footings, grade beams, and retaining walls are designed to bear on engineered fill or undisturbed soil capable of safely sustaining 2000 psf.
- Contractor shall provide for dewatering at excavations from either surface water or seepage
- All foundation excavations shall be inspected by a qualified soil engineer, approved by the architect and/or structural engineer, prior to placement of steel or concrete. This inspection shall be at the owner's expense.
- Moisture content in soils beneath building locations should not be allowed to change after footing excavations and after grading for slabs on grade are completed. If subgrade materials become desiccated or softened by water or other conditions, recompact materials to the density and water content specified for engineered fill. Do not place concrete on frozen ground.

### Timber and Wood Framing

Quality and construction of wood framing members and their fasteners for load supporting purposes not otherwise indicated on the drawings shall be in accordance with the 2018 International

- grade (visually graded) lumber with an allowable fiber stress in compression parallel grain of 900 psi and an elastic modulus of
- C. Blocking of stud bearing walls and shear walls shall be solid.
- matching sheathing joints. D. Wood members and sheathing shall be fastened with number and size of fasteners not less than that set forth in Table 2304.9.1 of the 2012 International Building Code. Sheathing of shear walls or roof diaphragms shall be edge nailed with 8d common nails at 6" on center and nailed to intermediate framing and/or blocking members with 8d common nails at 12" on center unless otherwise noted on the
- E. Sill plates shall be bolted to concrete walls or steel beams with 1/2" diameter galvanized bolts at 32" on center. Plates in direct contact with concrete shall be treated lumber
- F. Service condition dry with moisture content at or below 19% in
- G. Laminated veneer lumber (LVL) shall have an allowable flexural stress (Fb) of 2,600 psi (reduced by size factor) and an elastic modulus (E) of 1,900,000 psi.
- H. Pre-engineered wood trusses shall be designed in accordance with the Truss Plate Institute's national design standard for metal-plate connected wood truss construction (ANSI/TPI-I latest edition). Trusses shall be designed and manufactured by an authorized member of the Wood Truss Council of America (WTCA). Truss design shall conform to specified codes, allowable stress increases, deflection
- limitations and other applicable criteria of the governing code. Shop drawings showing complete erection and fabrication details and calculations (including connections) shall be submitted to the project architect / engineer for review prior to fabrication and/or erection. Such drawings shall bear the seal of a professional engineer, registered in the state of the project location. Shop drawings shall also be submitted to the local government controlling agency when requested by that agency.
- J. All trusses shall be securely braced both during erection and permanently, as indicated on the approved truss design drawings and in accordance with TPI's commentary and recommendations for handling, installing and bracing metal-plate connected wood trusses (HIB-91, booklet) and the latest edition of ANSI/TPI-1.
- K. The truss manufacturer shall supply all hardware and fasteners for joining truss members together and fastening truss members to their supports. Metal connector plates shall be manufactured by a member of the Wood Truss Council of America (WTCA) and shall be 20 gauge minimum. Connector plates shall meet or exceed ASTM A653, grade 33, with ASTM A924 galvanized coating designation
- L. Shipment, handling, and erection of trusses shall be by experienced, qualified persons and shall be performed in a manner so as not to endanger life or property. Apparent truss damage shall be reported to the truss manufacturer for evaluation prior to erection. Cutting or alteration of trusses is not permitted.
- M. Pre-engineered roof truss design load and deflection criteria are as
  - Top Chord Dead Load= 15psf
  - Top Chord Live Load= 25psf Bottom Chord Dead Load= 10psf
  - Add mechanical unit weight to truss loads
  - Add 20 psf Live Load at Flat Roof Area.
  - Uplift due to wind applied to truss top chord shall b calculated per the governing building code listed in General Note 3 and using the design criteria listed in General Note 5. Superimposed Roof Dead load listed in General Note 5 shall not be included in wind uplift load combinations.
  - Allowable Total Load Deflection= L/300 Allowable Live Load Deflection= L/360

### 10. Shop Drawing Review:

- A. Bob D. Campbell and Company, Inc. will review the General Contractor's (GC) shop drawings and related submittals (as indicated below) with respect to the ability of the detailed work, when complete, to be a properly functioning integral element of the overall structural system designed by Bob D. Campbell and Company, Inc. B. Prior to submittal of a shop drawing or any related material to Bob
- D. Campbell and Company, Inc., the GC shall: 1) Review each submission for conformance with the means, methods, techniques, sequences and operations of construction and safety precautions and programs incidental thereto, all of which are the sole responsibility of the GC.
- 2) Review and approve each submission.
- 3) Stamp each submission as approved. C. Bob D. Campbell and Company, Inc. shall assume that no submission comprises a variation unless the GC advises Bob D. Campbell and
- Company, Inc. with written documentation. D. Shop drawings and related material (if any) required are indicated below. Should Bob D. Campbell and Company, Inc. require more than ten (10) working days to perform the review, Bob D. Campbell and Company, Inc. shall so notify the GC.
- 1) Concrete mix designs and material certificates including admixtures and compounds applied to the concrete after
- 2) Reinforcing steel shop drawings including erection drawings and bending details. Bar list will not be reviewed for correct quantities.
- 3) Wood truss design calculations and detailed erection and fabrication drawings. Standard stick framing shop drawings need not be submitted.
- E. Bob D. Campbell and Company, Inc. shall review shop drawings and related materials with comments provided that each submission has met the above requirements. Bob D. Campbell and Company, Inc. shall return without comment unrequired material or submissions without GC approval stamp.

### Structural Special Inspection:

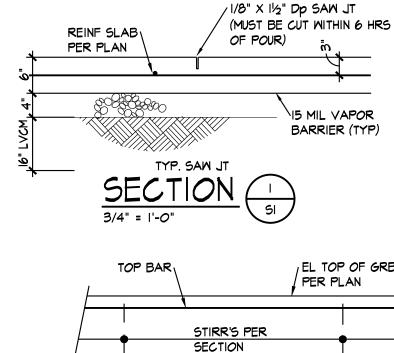
- A. The structural design for this project is based on completion of special inspections during construction in accordance with section 1704 of the 2018 International Building Code. The owner shall employ one or more qualified special inspectors to provide the required special inspections.
- B. Special Inspections shall be required for the items indicated below. The General Contractor shall provide notification to the inspector when items requiring inspection are ready to be inspected and provide access for those inspections. Placement of Concrete
- 2) Testing of Concrete
- 3) Bolts in Concrete
- 4) Placement of Reinforcing Steel
- 5) Verification of Soil Bearing Capacities
- C. The special inspector shall furnish inspection reports to the building official, owner, architect and structural engineer, and any other designated person.
- D. All discrepancies shall be brought to the immediate attention of the contractor for correction, then, if uncorrected, to the proper design authority, building official and structural engineer
- E. The special inspector shall submit a final signed report stating that the work requiring special inspection was, to the best of the inspector's knowledge, in conformance with the approved plans and specifications and the applicable workmanship provisions of the building code.

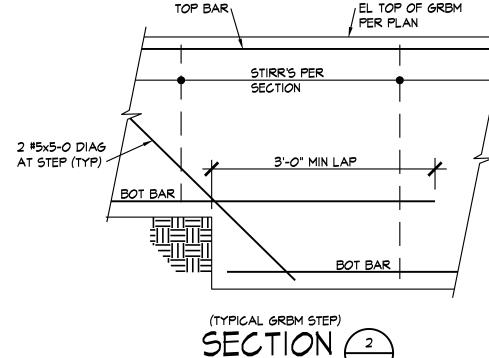
### 12. Copyright and Disclaimer:

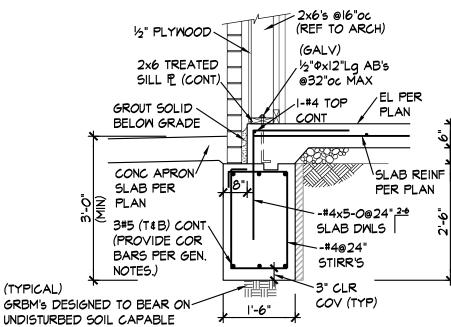
A. All drawings in the structural set (5-series drawings) are the copyrighted work of Bob D. Campbell and company, Inc. These drawings may not be photographed, traced, or copies in any manner without the written permission of Bob D. Campbell and Company, Inc. Exception: Original drawings may be printed for distribution to the owner, architect, and general contractor for coordination, bidding,

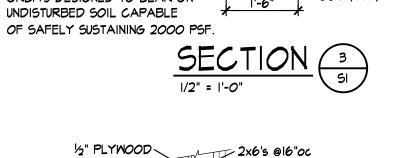
and construction. Subcontractors may not reproduce these drawings for any purpose or in any manner.

B. I, Michael J. Falbe, P.E., registered engineer and a representative of Bob D. Campbell and Company, Inc., do hereby accept professional responsibility as required by the professional registration laws of this state for the structural design drawings consisting of S-series drawings. I hereby disclaim responsibility for all other drawings in the construction document package, they being the responsibility of other design professionals whose seals and signed statements may appear elsewhere in the construction document package.









2" PLYWOOD \

2x6 TREATED

SILL PE (CONT),

REF PER

1'-6"

GROUT SOLID \

BELOW GRADE

CONC APRON

SLAB PER

2x6's @16"oc (REF TO ARCH)

(GALV)

CONT

رار "ΦxI2"Lg AB's اير

-#4@24"

- REINF PER

SEC 3/SI

COV (TYP)

~3" CLR

SLAB DWLS 67

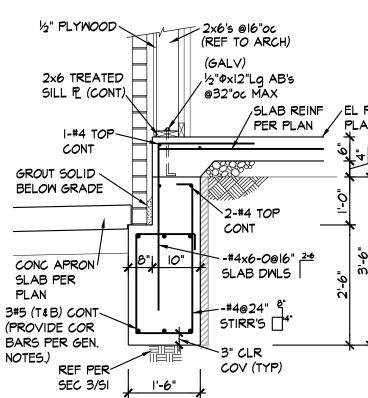
/EL PER

SLAB REINF

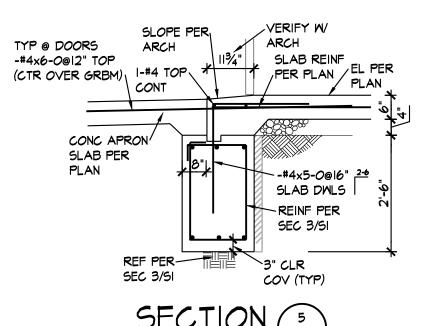
PER PLAN

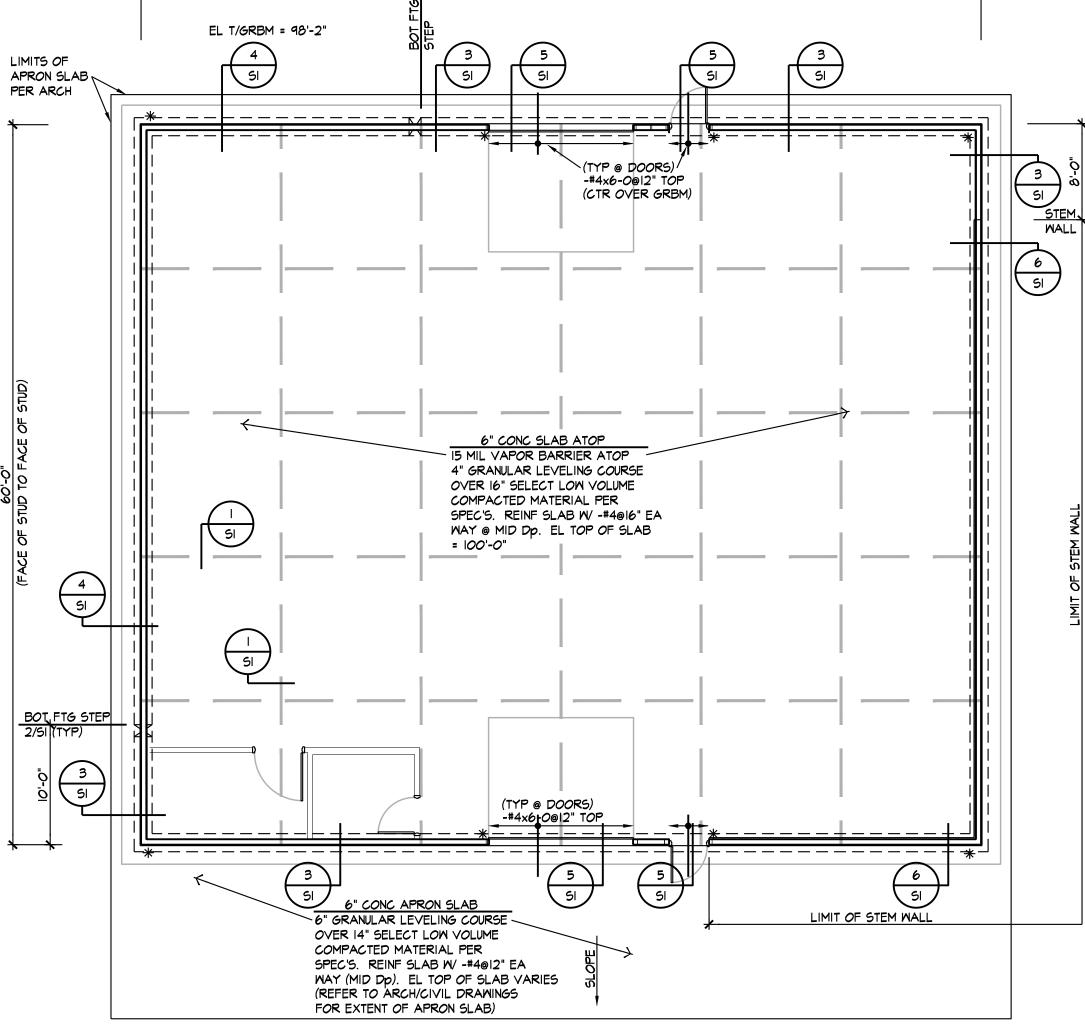
@32"oc MAX

(TYPICAL)









70'-0"

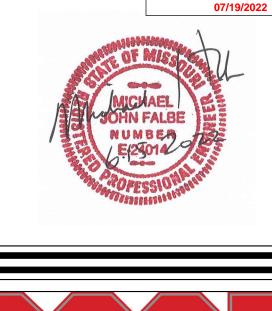
(FACE OF STUD TO FACE OF STUD)

### FOUNDATION & FLOOR PLAN NORTH

I.) REFER TO GENERAL NOTES ON SHEET S-I

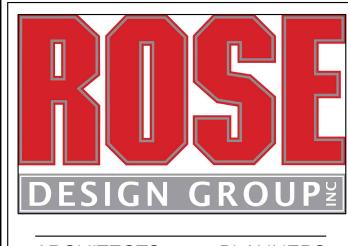
2.) \* - INDICATES SIMPSON HDU5-SDS2.5 HOLDDOWN w/ DBL 2x6 STUD & %"¢x24"Lq THREADED ROD (A-36) DRILL & EPOXY 8" MIN INTO GRBM.

3.) REFER TO ARCH DRAWINGS FOR DIMENSIONS 4.) REFER TO 2/SI FOR TYPICAL GRBM STEP.



**CONSTRUCTION** s Noted on Plans Rev

Lee's Summit, Missouri



ARCHITECTS ■ PLANNERS A Division of Rose Design Build

913-782-0777 FAX: 913-782-0998 P.O. BOX 100 OLATHE, KS 66051 KANSAS STATE CERTIFICATE OF



## BUILDIN

SHOP

PARKWAY OLDHAM

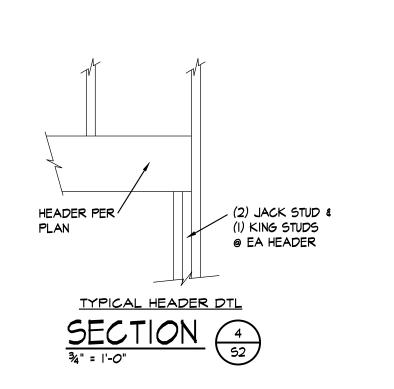
**SUMMIT.MISSOURI** 

NO.	DESCRIPTION		DATE				
PF	ROJECT NUMBER		22009				
D/	DATE ISSUED: 06						
SH	HEET NUMBER						

Foundation & Floor Plan, **General Notes** 

I'-O" (VERIFY W/ ARCH DMGS)> CUT 2x \ PRE-ENGINEERED TRUSSES PER TRUSS BRG. PER ARCH. PLAN (BY OTHERS) PROVIDE SIMPSON H2.5 UPLIFT ANCHOR @ EACH TRUSS (2) 2x6 CONT./ PER ARCH 2x4 NAILER 2x6 BLOCKING ~2x6's @l6"o.c. 2×6 CONT PROVIDE SIMPSON THE H2.5T @ EA 2x4 2-2×6 CONT 1/2" PLYWOOD HEADER PER ½" PLYWOOD/ 2x6's @16"oc 2x6 CONT

DOOR OPNG
SIZE & LOCATION
PER ARCH



PROVIDE SIMPSON H2.5 UPLIFT ANCHOR @ EACH TRUSS

2×4 NAILER

2x6's @16"o.c.

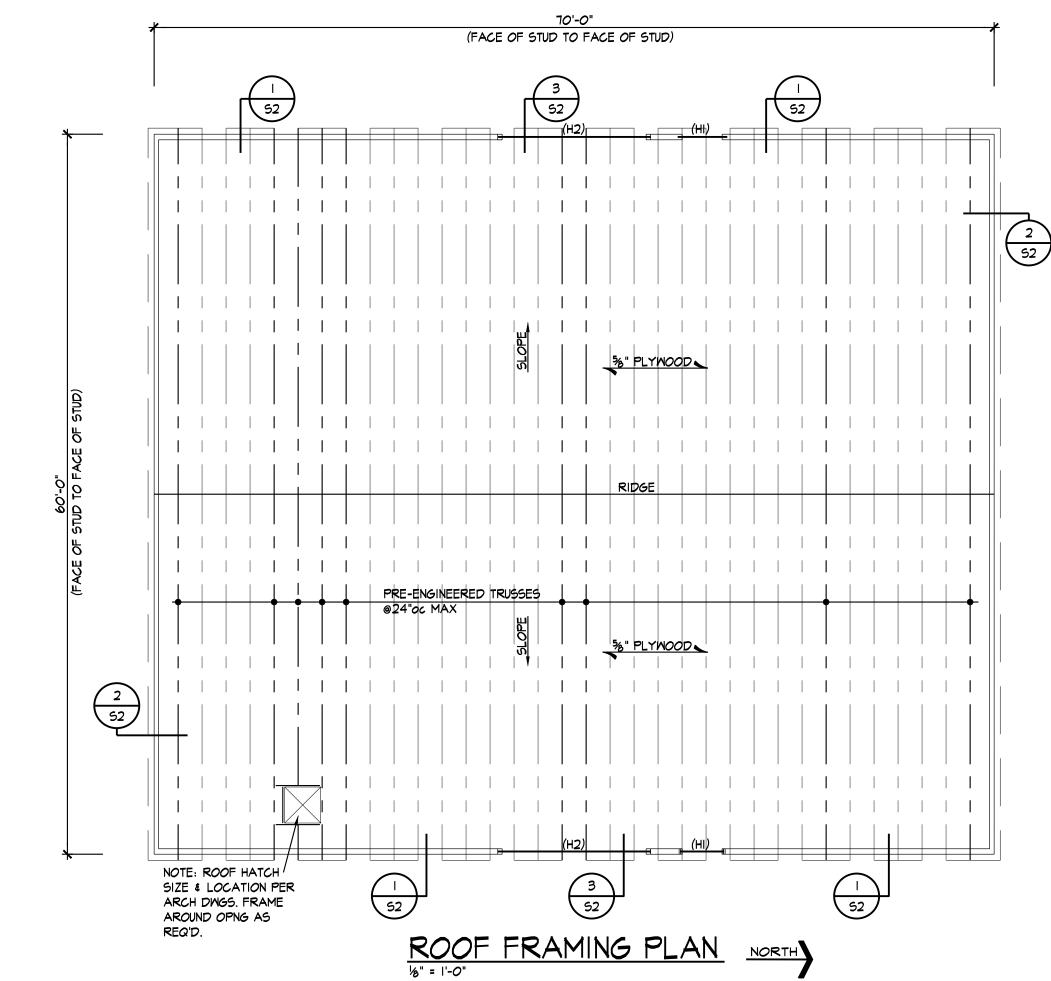
CUT 2x BLOCKING \
@ ALT BAYS

(2) 2×6 CONT.

1/2" PLYWOOD

TRUSS BRG.
PER ARCH.

COORD SOFFIT W ARCH



	LINTEL SCHEDULE
TYPE	DESCRIPTION
$^{\odot}$	3- 2x10's W 2- ½" SPACER 凡 W I JACK, 2 KING.
$\oplus$	3- 1¾"x14" LVL'5 W/ 3 JACK, 4 KING.

I.) REFER TO GENERAL NOTES ON SHEET S-I

NOTE: REFER TO 4/S2 FOR TYPICAL HEADER DETAIL

Development Services Department Lee's Summit, Missouri 07/19/2022

RELEASED FOR
CONSTRUCTION
As Noted on Plans Review





ARCHITECTS ■ PLANNERS

A Division of Rose Design Build

913-782-0777 FAX: 913-782-0998 P.O. BOX 100 OLATHE, KS 66051

KANSAS STATE CERTIFICATE OF AUTHORITY # A-83

WWW.BuildWithRose.com



# SED BODY SHOP BUILDING FOR: H CHAMPIONS

	NO.	DESCRIPTION	DATE
ı			

**LEE'S SUMMIT.MISSOURI** 

22009

PROJECT NUMBER
DATE ISSUED:
SHEET NUMBER

JED: 06 / 14 / 22 IMBER

**S2** 

Roof Framing Plan & Sections

Lee's Summit, Misso 07/19/2022

ANNOTATION LEGEND:

PLAN NOTE

S-1 G/R/D TAG 8Ø NECK SIZE

300 AIR FLOW (CFM)

EXHAUST AIR EXHAUST FAN

FEET PER MINUTE HEATING CAPACITY HORSEPOWER

IN.WG INCHES WATER GAUGE MAXIMUM

> NOISE CRITERIA OUTDOOR AIR QUANTITY

TOTAL STATIC PRESSURE

1,000 BTUH

MINIMUM

VEL VELOCITY

ABC−1 EQUIPMENT / FIXTURE TAG

CONNECT TO EXISTING

→ AIR FLOW DIRECTION

ABBREVIATIONS LEGEND:

ABOVE FINISHED FLOOR

AIR PRESSURE DROP CUBIC FEET PER MINUTE

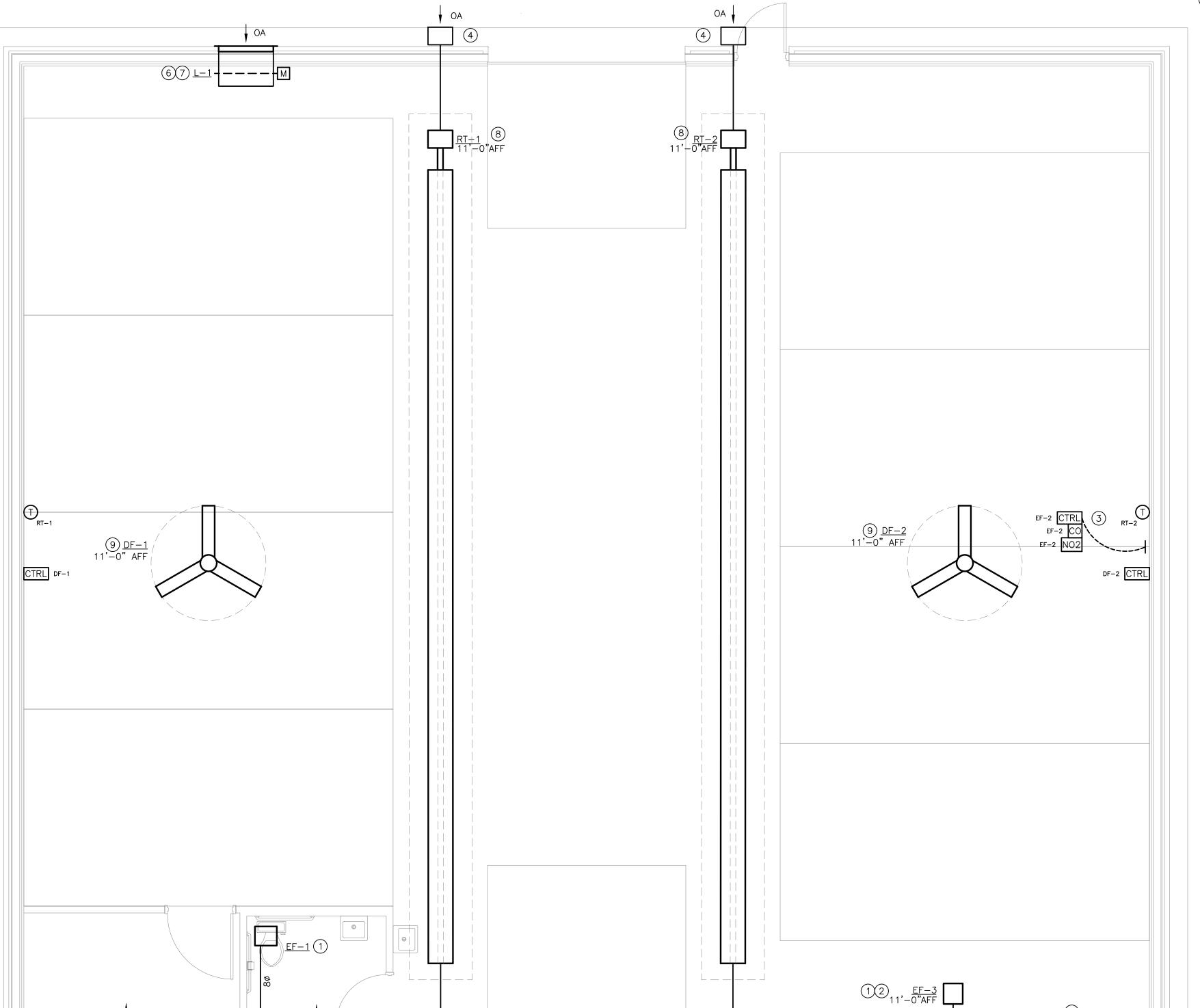
EXTERNAL STATIC PRESSURE

<u>| UH-1</u> (10

10<u>UH-2</u>

⊥ EA

(5)



ROUTE EXHAUST DUCT OF SIZE INDICATED ON PLAN FROM EXHAUST FAN THROUGH WALL AS SHOWN. PROVIDE WALL PENETRATION AND VENT CAP PER MANUFACTURER'S RECOMMENDATIONS. LOCATE DISCHARGE AT MINIMUM OF 10'-0" FROM ANY BUILDING OPENINGS OR OUTDOOR AIR INTAKES.

2. SUSPEND INLINE EXHAUST FAN FROM STRUCTURE. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS.

3. PROVIDE CARBON MONOXIDE / NITROGEN DIOXIDE DETECTION SYSTEM, MONOXIVENT MODEL # FDS-SA-CO-NO OR EQUAL, WITH CONTRÖLLER AND QUANTITY OR SENSORS AS RECOMMENDED BY THE MANUFACTURER. COORDINATE POWER REQUIREMENTS WITH ELECTRICAL CONTRACTOR.

4. PROVIDE 4Ø COMBUSTION AIR INTAKE THROUGH WALL. TERMINATE WITH KIT FURNISHED WITH TUBE HEATER. REFER TO TUBE HEATER MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR INTAKE MATERIAL REQUIREMENTS.

5. PROVIDE 40 COMBUSTION AIR EXHAUST THROUGH WALL TERMINATE WITH KIT FURNISHED WITH TUBE HEATER. REFER TO TUBE HEATER MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR COMBUSTION EXHAUST MATERIAL REQUIREMENTS.

6. PROVIDE MOTOR OPERATED DAMPER IN LOUVER AS SHOWN. MATCH DAMPER SIZE TO LOUVER FACE DIMENSIONS. ACTUATOR TO BE 120 VOLT, SPRING CLOSED. INTERLOCK DAMPER WITH GAS DETECTION

7. INSTALL INDICATED EQUIPMENT AS HIGH AS POSSIBLE ON EXTERIOR WALL.

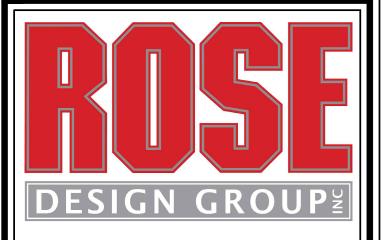
8. INSTALL RADIANT TUBE HEATER WITH DEFLECTOR SHIELD DIRECTED AT 30° ANGLE TOWARDS EXTERIOR WALL.

9. COORDINATE INSTALLATION OF HVLS FAN WITH OTHER TRADES. MAINTAIN OPERATIONAL AND MAINTENANCE CLEARANCES AS REQUIRED BY MANUFACTURER.

10. LOCATE UNIT HEATER ON WALL WHERE SHOWN, MIN 1'-0" AFF. INSTALL PER MANUFACTURER'S REQUIREMENTS.

— MECHANICAL PLAN NOTES:

SCOTT D. GROSHANS MO LICENSE # PE-2019012798



ARCHITECTS ■ PLANNERS

A Division of Rose Design Build

913-782-0777 FAX: 913-782-0998 P.O. BOX 100

OLATHE, KS 66051 KANSAS STATE CERTIFICATE OF www.BuildWithRose.com AUTHORITY # A-83



## 

SHOP

**PROPOSED** 

**OLDHAM PARKWA SUMMIT.MISSOURI** 451 SE **LEE'S** 

DATE NO. DESCRIPTION FOR PERMIT 06 / 14 / 2022 PROJECT NUMBER 22009

DATE ISSUED: SHEET NUMBER

06 / 14 / 2022

MECHANICAL PLAN

 $\frac{\text{MECHANICAL PLAN}}{\text{SCALE: 1/4" = 1'-0"}}$ 

(5)

5 B Y 5 1100 Main Street, 4th Floor Kansas City, MO 64105 Kansas COA: E-2361 913-689-9449 ENGINEERS contact@5by5eng.com
5by5eng.com

<u>EF-2</u> (7)

**↓** EA

- DRAWINGS ARE SCHEMATIC IN NATURE. COORDINATE ALL MECHANICAL WORK WITH ARCHITECTURAL DRAWINGS AND OTHER TRADES PRIOR TO START OF WORK.
- MECHANICAL WORK SHALL CONFORM TO APPLICABLE CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
- COORDINATE WITH ELECTRICAL CONTRACTOR FOR REQUIRED ELECTRICAL POWER WIRING AND ROUGH-IN FOR LOW-VOLTAGE CONTROL WIRING. PROVIDE ALL CONTROL WIRING AND FINAL CONTROL DEVICE (E.G. THERMOSTATS).
- FABRICATE AND INSTALL DUCTWORK PER SMACNA RECOMMENDATIONS FOR THE PRESSURE CLASSIFICATIONS ENCOUNTERED.
- •• EXHAUST AIR (UPSTREAM OF FAN): -2.0 IN.WG •• EXHAUST AIR (DOWNSTREAM OF FAN): +1.0 IN.WG
- PROVIDE MITERED ELBOWS AT CHANGES IN DIRECTION IN RECTANGULAR DUCTWORK. PROVIDE TURNING VANES IN ALL ELBOWS WHERE AIRFLOW CHANGES DIRECTION AT ANGLES 45° AND GREATER, EXCEPT FOR RETURN AIR TRANSFER DUCTS.
- FLEXIBLE DUCTWORK SHALL HAVE 2" THICK, MINIMUM R-6.0 INSULATION. FLEXIBLE DUCTWORK SHALL NOT EXCEED 3'-0" IN LENGTH FOR EXHAUST AIR APPLICATIONS.
- TOILET ROOM EXHAUST FANS SHALL BE AS SCHEDULED. PROVIDE A MINIMUM OF 75 CFM EXHAUST PER FLUSH FIXTURE.
- ALL DIMENSIONS SHOWN ON PLAN ARE IN INCHES, UNLESS EXPLICITLY LABELED OTHERWISE.
- PROVIDE ACCESS PANELS AND ADEQUATE CLEARANCE FOR ACCESS TO ALL EQUIPMENT, VALVES, DAMPERS AND

	DESTRATIFICATION FAN SCHEDULE													
AG	AREA	MANUFACTURER	MODEL	FAN	MOTOR	DRIVE TYPE	\//DH	WEIGHT	NOTES					
AG	SERVED	WIANOT ACTORER		DIAMETER	POWER	DIVIVETIFE	V/FII	(LBS)	NOTES					
F-1	SHOP	HUNTER	XP	7'-0"	5/8 HP	DIRECT EC	120/1	100	ALL					
F-2	SHOP	HUNTER	XP	7'-0"	5/8 HP	DIRECT EC	120/1	100	ALL					

- A. COORDINATE FINISH COLOR WITH ARCHITECT, PRIOR TO ORDER.
- B. FURNISH WITH WALL CONTROLLER. REFER TO PLAN FOR MULTIPLE FANS TO BE CONTROLLED BY ONE CONTROLLER.

UNIT HEATER SCHEDULE												
TAG	LOCATION	MANUFACTURER	MODEL	MOUNTING	OUTPUT	INPUT	VOLT/PHASE	AMP	NOTES			
UH-1	COMPRESSOR RM	QMARK	CWH1201	WALL	6.1 MBH	1,800 WATTS	120/1/60	15	A,B			
UH-2	RESTROOM	QMARK	CWH1201	WALL	6.1 MBH	1,800 WATTS	120/1/60	15	A,B			

- A. PROVIDE WITH UNIT MOUNTED THERMOSTAT AND DISCONNECT SWITCH.
- B. PROVIDE WITH MANUFACTURER'S STANDARD TRIM FOR WALL MOUNTING.

LOUVER SCHEDULE											
TAG	MANUFACTURER	MODEL	SIZE (W"xH")	FREE AREA	MAX VELOCITY (FPM)	MAX DP	NOTES				
L-1	RUSKIN	ELF375DX	40x40	5.97 SQ/FT	502	0.05	A-D				

- A. PROVIDE WITH MANUFACTURER'S STANDARD ALUMINUM BIRDSCREEN.
- B. PROVIDE WITH STANDARD MILL FINISH. COLOR TO BE SELECTED BY THE ARCHITECT.
- C. FRAME TYPE SHALL MATCH WALL CONSTRUCTION. COORDINATE WITH ARCHITECT FOR EXACT FRAME TYPE.

D.	PROVIDE WITH INTEGRAL MOTORIZED DAMPER, RUSKIN MODEL CD356 OR EQUAL	. INTERLOCK MOTORIZED DAMPER WITH GAS DETECTION SYSTEM
	COORDINATE WITH ELECTRICAL CONTRACTOR.	

	RADIANT TUBE HEATER SCHEDULE													
TAG	AREA	MANUFACTURER	MODEL	HEATER	NOM INP	UT (MBH)	MIN EFF	NG PRESS	(IN.WG)	STAGES	V/DU	ΕΙΛ	WEIGHT	NOTES
TAG	SERVED	IVIANOFACTORER	IVIODEL	LENGTH	(MIN)	(MAX)	(%)	(MIN)	(MAX)	STAGES	V/PH	FLA	(LBS)	INOTES
RT-1	SHOP	DETROIT RADIANT	HL3-50-150	50'-9"	100	150	80	5.0	14.0	2	120/1	4.8	235	ALL
RT-2	SHOP	DETROIT RADIANT	HL3-50-150	50'-9"	100	150	80	5.0	14.0	2	120/1	4.8	235	ALL

- A. PROVIDE WITH MANUFACTURER'S STANDARD WALL-MOUNTED THERMOSTAT
- B. COORDINATE WITH ELECTRICAL CONTRACTOR FOR PROVIDE DISCONNECT SWITCH. C. FURNISH INFRARED HEATER WITH COMBUSTION AIR INTAKE KIT AND WALL VENT KIT.
- D. FURNISH WITH SINGLE MOUNT BRACKETS AND CHAIN HANGING SETS.

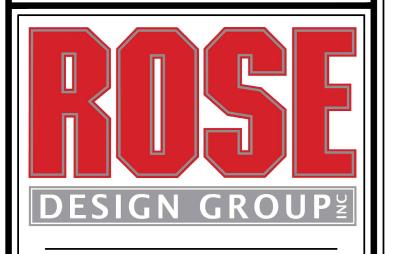
	FAN SCHEDULE												
TAG	AREA SERVED	MANUFACTURER	MODEL	MOUNTING	AIR FLOW	ESP	MOTOR	DRIVE	V/PH	NOTES			
TAG	AREA SERVED	IVIANUFACTURER	MODEL	INIOONTING	(CFM)	(IN.WG)	POWER	TYPE	٧/٢٦	INUTES			
EF-1	RESTROOM	соок	GC-146	CEILING	75	0.25	0.04 HP	DIRECT	120/1	A-D,H			
EF-2	SHOP	соок	18XP29D132	WALL	3000	0.2	0.75 HP	DIRECT	120/1	C,E,G			
EF-3	SHOP	соок	GC-342	INLINE	200	0.2	0.063 HP	DIRECT	120/1	C,D,F,H			

- A. PROVIDE WITH MANUFACTURER'S STANDARD HANGING KIT AND CEILING MOUNT TRIM.
- B. INTERLOCK FAN WITH ASSOCIATED RESTROOM LIGHT SWITCH.
- C. PROVIDE WITH DISCONNECT SWITCH.
- D. PROVIDE WITH BACKDRAFT DAMPER.
- F. FAN TO OPERATE AT ALL TIMES. COORDINATE WITH ELECTRICAL CONTRACTOR.
- G. FAN TO OPERATE SUBJECT TO GAS DETECTION SYSTEM STATE. COORDINATE WITH ELECTRICAL CONTRACTOR.
- H. FURNISH WITH MANUFACTURER'S STANDARD WALL DISCHARGE CAP.

TAG	LOCATION	OCCUPANCY	AREA	R <sub>A</sub>	MIN REQ'D	PROVIDED		
		CLASSIFICATION		(CFM/FT <sup>2</sup> )	O/A FLOW	MIN O/A FLOW	NOTE:	
					(CFM)	(CFM)		
EF-2	SHOP 03 RM	REPAIR GARAGE	3.851	0.75	2,889	3,000	Α	
EF-3	3HOP 03 KIVI	PARKING GARAGE	3,031	0.05	193	200		

A. RA REPRESENTS AREA OUTDOOR AIRFLOW RATE IN BREATHING ZONE PER TABLE 403.3.

Lee's Summit, Misso 07/19/2022 SCOTT D. GROSHANS MO LICENSE # PE-2019012798



ARCHITECTS ■ PLANNERS A Division of Rose Design Build

913-782-0777 FAX: 913-782-0998 OLATHE, KS 66051 P.O. BOX 100 KANSAS STATE CERTIFICATE OF www.BuildWithRose.com AUTHORITY # A-83



**LEE'S SUMMIT.MISSOURI** 

DESCRIPTION	DATE
FOR PERMIT	06 / 14 / 2022

DATE ISSUED:

PROJECT NUMBER

SHEET NUMBER

**PROPOSED** 

22009

06 / 14 / 2022

MECHANICAL SCHEDULES AND DETAILS

5 BY 5 1100 Main Street, 4th Floor Kansas City, MO 64105 Kansas COA: E-2361 913-689-9449 contact@5by5eng.com 5by5eng.com

07/19/2022

• REFER TO P2.0 FOR PLUMBING GENERAL NOTES. (-) PLUMBING PLAN NOTES:

PIPING OUTSIDE OF BUILDING FOOTPRINT. 2. PROVIDE NEW NATURAL GAS SERVICE ENTRANCE AND METER WHERE SHOWN ON PLAN. REFER TO NATURAL GAS LOAD SCHEDULE FOR LOAD, TOTAL DEVELOPED LENGTH,

1. REFER TO CIVIL UTILITY PLAN FOR CONTINUATION OF

3. CONNECT NATURAL GAS TO MECHANICAL EQUIPMENT AS SHOWN. PROVIDE DIRT LEG, GAS COCK, AND REGULATOR. REFER TO MECHANICAL EQUIPMENT MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR ADDITIONAL REQUIREMENTS. COORDINATE WITH MECHANICAL CONTRACTOR.

4. ROUTE 4" VENT UP THROUGH ROOF (VTR). DISCHARGE AT MINIMUM 1'-6" ABOVE FINISHED ROOF. INSTALL AT MINIMUM OF 10'-0" FROM ALL MECHANICAL OUTDOOR AIR INTAKES

5. AIR COMPRESSOR PROVIDED BY OTHERS. PROVIDE COMPRESSED AIR PIPING CONNECTION WITH VALVES AND SPECIALS PER AIR COMPRESSOR MANUFACTURER'S RECOMMENDATIONS.

6. PROVIDE 1"CA DROP DOWN WALL. TERMINATE WITH SHUTOFF VALVE. COORDINATE CONNECTION TO OWNER EQUIPMENT WITH OTHER TRADES.

7. 1" DOMESTIC WATER SERVICE ENTRANCE, FED BY ADJACENT BUILDING. PROVIDE SHUTOFF VALVE AT 4'-0"

8. INSTALL WATER ABOVE CEILING WHERE SHOWN ON PLAN. CONNECT WATER PIPING, VALVES, AND EXPANSION TANK TO WATER HEATER SYSTEM PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND DETAIL 1/P2.0.

9. PROVIDE COLD WATER AND HOT WATER PIPING OF SIZES INDICATED ON PLAN DOWN IN WALL. ROUTE PIPING IN WALL CAVITY AND CONNECT TO PLUMBING FIXTURES ALONG WET WALL PER FIXTURE CONNECTION SCHEDULE ON P2.0.

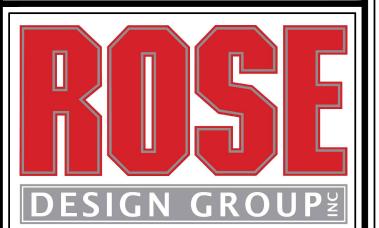
10. COORDINATE ALL PIPE ROUTING WITH CLEARANCE REQUIREMENTS OF DESTRATIFICATION FAN.

11. PROVIDE HIGH LEVEL ALARM SYSTEM WITH MECHANICAL ALARM FLOAT FOR SANITARY HOLDING TANK, SEPTIC PRODUCTS INC "OBSERVER 200" OR EQUAL. INSTALL CONTROLLER WHERE INDICATED ON PLAN. COORDINATE POWER REQUIREMENTS WITH ELECTRICAL CONTRACTOR.

PLUMBING GENERAL NOTES:

AND SIZING DETAILS.

SCOTT D. GROSHANS MO LICENSE # PE-2019012798



ARCHITECTS ■ PLANNERS

A Division of Rose Design Build

913-782-0777 FAX: 913-782-0998 P.O. BOX 100 OLATHE, KS 66051 KANSAS STATE CERTIFICATE OF www.BuildWithRose.com AUTHORITY # A-83



**OLDHAM PARKWAY SUMMIT.MISSOURI PROPOSED LEE'S** 451

DATE NO. DESCRIPTION FOR PERMIT 06 / 14 / 2022 CITY COMMENTS 07 / 07 / 2022

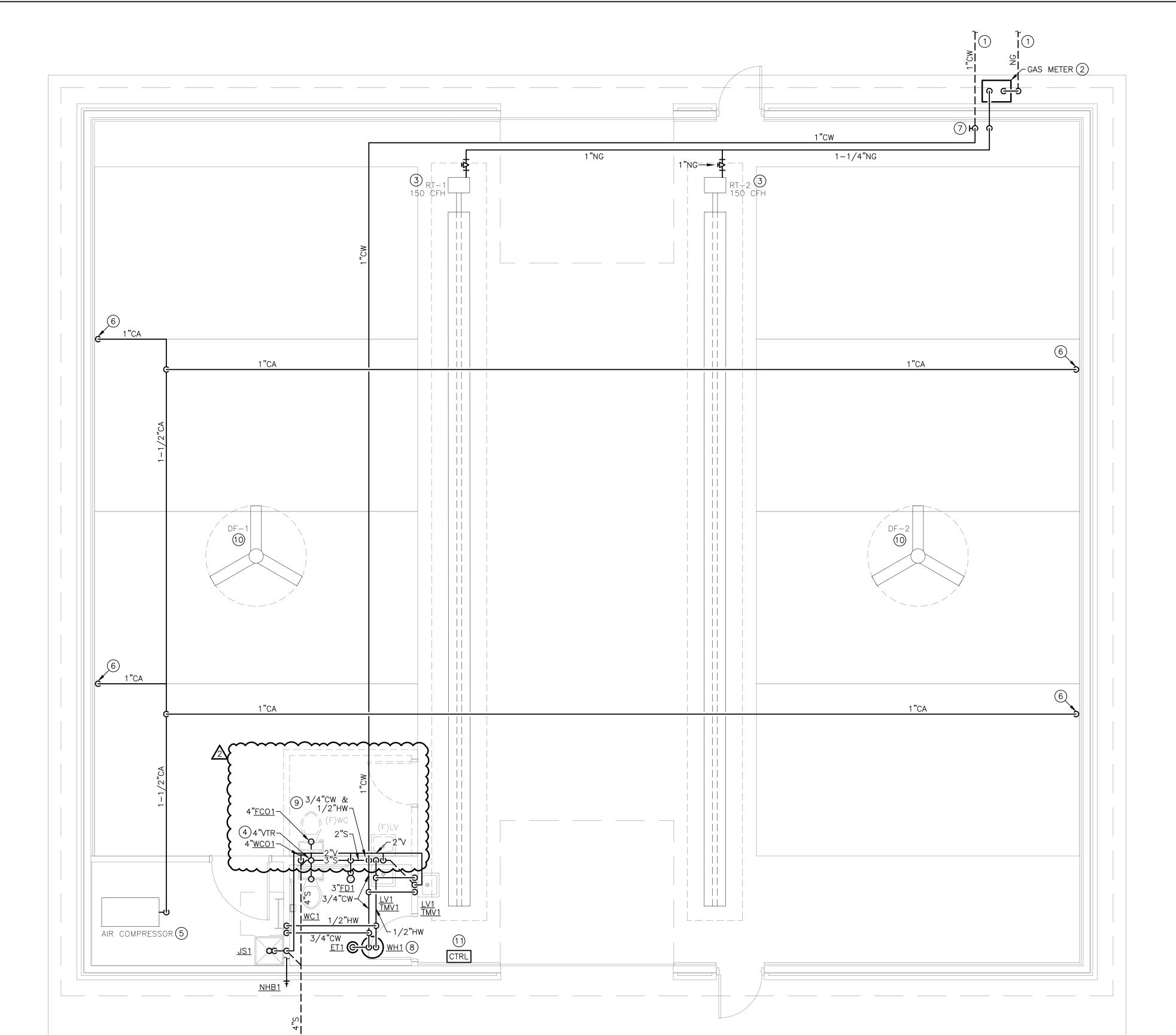
PROJECT NUMBER DATE ISSUED:

SHEET NUMBER

22009

06 / 14 / 2022

PLUMBING PLAN



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

LINETYPES LEGEND:

---- DEMOLITION

PIPING LEGEND:

**C**→ ELBOW DOWN

O→ ELBOW UP

**∝** P-TRAP

<del>C</del> TEE DOWN

**⊱-O**-- ELBOW UP

BALL VALVE

GLOBE CLOBE VALVE

GATE VALVE

CHECK VALVE

**⊱⊢⊽**H GAS COCK

→ UNION

**⊢I** FLANGE

**H** WYE−STRAINER

**₹** RELIEF VALVE

FLOW DIRECTION

FLOOR DRAIN

FLOOR SINK

→ HOSE BIBB

PLAN NOTE

FLOOR CLEANOUT

ANNOTATION LEGEND:

ABC-1 EQUIPMENT / FIXTURE TAG

CONNECT TO EXISTING

ABBREVIATIONS LEGEND:

ABOVE FINISHED FLOOR

BOTTOM OF PIPE CUBIC FEET PER HOUR CLEANOUT

DOMESTIC COLD WATER

GALLONS PER MINUTE

NON-FREEZE HOSE BIBB

THERMOSTATIC MIXING VALVE

EXPANSION TANK

FLOOR CLEANOUT FLOOR DRAIN

INVERT ELEVATION IN.WG INCHES WATER GAUGE LAVATORY MAXIMUM 1,000 BTUH MINIMUM NATURAL GAS

HOSE BIBB

QUANTITY

WCO WALL CLEANOUT

SANITARY WASTE

TO ROOF ABOVE

WATER CLOSET WATER HEATER

BFLY → BUTTERFLY VALVE

**₩** BALANCING VALVE

→ PRESSURE REDUCING VALVE

 $\stackrel{\text{M/A}}{\leftarrow}$  AIR VENT (MANUAL / AUTOMATIC)

← PIPE BREAK / CONTINUATION

NEW - ABOVE SLAB

--- NEW - BELOW SLAB

----- EXISTING - ABOVE SLAB

---- EXISTING - BELOW SLAB

→ SHUT-OFF VALVE (GENERIC)

ENGINEERS contact@5by5eng.com
5by5eng.com

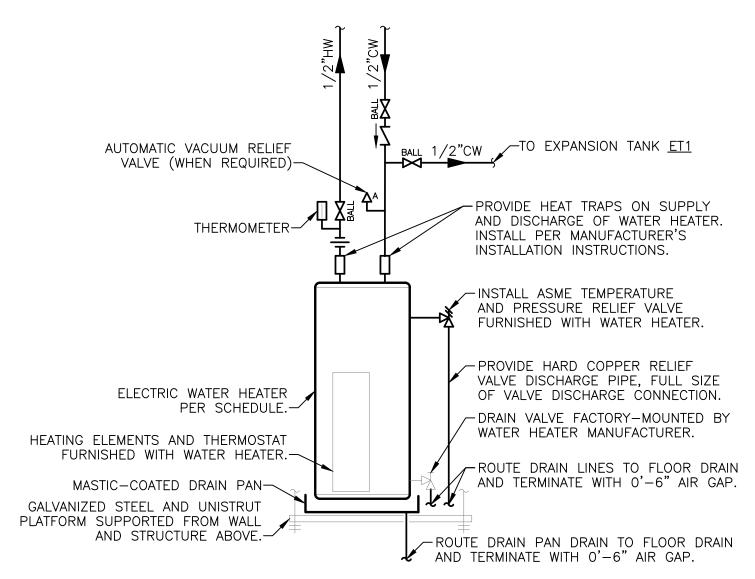
Lee's Summit, Misso 07/19/2022

TMV: POINT OF USE TYPE THERMOSTATIC MIXING VALVE CONFORMING TO ASSE 1070. VB: ATMOSPHERIC TYPE VACUUM BREAKER CONFORMING TO ASSE 1020.

NATURAL GAS LOAD SCHEDULE										
EQUIPMENT	ОТУ	DESCRIPTION	CFH INPUT	TOTAL CFH	$\sqrt{2}$					
TAG	QII	DESCRIPTION	(EACH)	TOTAL CFH	_					
RT-1	1	RADIANT TUBE HEATER	150	150						
RT-2	1	RADIANT TUBE HEATER	150	150						

SYSTEM TOTAL =

A. METER DISCHARGE PRESSURE: 11 IN.WG. B. TOTAL DEVELOPED LENGTH: 100 FT. C. DESIGN NATURAL GAS PIPING SYSTEM PRESSURE DROP: 0.5 IN.WG D. INLET PRESSURE FOR ALL GAS-FIRED EQUIPMENT: 7 TO 11 IN.WG.



### NOTES:

 STRUCTURE AND PLATFORM SHALL BE DESIGNED TO HOLD THE MAXIMUM WEIGHT OF THE WATER HEATER. CONFIRM CAPACITY OF SHELF WITH MANUFACTURER PRIOR TO INSTALLATION.



### PLUMBING FIXTURE SCHEDULE:

INFORMATION BELOW IS FOR GENERAL FIXTURE REQUIREMENTS ONLY. PLUMBING CONTRACTOR SHALL COORDINATE WITH OWNER AND ARCHITECT FOR EXACT FIXTURE REQUIRED FOR THE PROJECT. COORDINATE WITH OWNER FOR INFORMATION ON PROCURING FIXTURES AND ASSOCIATED COSTS. CONTRACTOR SHALL BE CLEAR AS TO WHAT FIXTURES ARE INCLUDED IN THEIR PROPOSED COSTS.

FIXTURES IN THIS SCHEDULE, OR THE APPROVED EQUIVALENT. SHALL BE PROVIDED BY THE PLUMBING CONTRACTOR UNLESS NOTED OTHERWISE. REFER TO SPECIFICATIONS AND MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR FURTHER REQUIREMENTS.

 EXPANSION TANK: 150 PSIG MAXIMUM WORKING PRESSURE, 2.0-GALLON CAPACITY, 0.45 MAXIMUM ACCEPTANCE FACTOR, AND 3/4" PIPE CONNECTION. SET THE AIR CHARGE PRESSURE TO MATCH EXISTING WATER SYSTEM PRESSURE. 

HEAVY DUTY FLOOR CLEANOUT: CAST IRON BODY, FLASHING FLANGE WITH CLAMPING COLLAR, ABS PLUG, AND ADJUSTABLE ROUND SECURED HEAVY-DUTY SCORIATED NICKEL BRONZE TOP 

 PVC FLOOR DRAIN: FLOOR DRAIN WITH ADJUSTABLE 6" ROUND MEDIUM-DUTY CAST NICKEL STRAINER, WITH FLANGED PVC ADAPTER. CLEAN AND POLISH STRAINER AFTER INSTALLATION, PROVIDE A DEEP SEAL TRAP, FLANGED PVC ADAPTER, AND TRAP GUARD.

• HOSE BIBB: ROUGH CHROME-PLATED BRASS, 3/4" FEMALE INLET, 3/4" THREADED HOSE CONNECTION, QUARTER-TURN WHEEL HANDLE, AND INTEGRAL VACUUM

JANITOR'S SINK: 24"W x 24"L x 10"H MOLDED FIBER

BASIN WITH INTEGRAL STAINLESS STEEL DRAIN BODY. FAUCET: FAUCET WITH WALL BRACE, INTEGRAL VACUUM BREAKER, PAIL HOOK, AND 3/4" MALE HOSE THREADED OUTLET. SECURE FAUCET IN WALL WITH BACKBOARD.

 TRIM: TYPE 304 20-GAUGE STAINLESS STEEL WALL SURROUNDS, 3'-0" LONG REINFORCED HOSE WITH 3/4" CHROME COUPLING AND WALL HOOK, EXTRUDED VINYL BUMPER GUARD, AND 2'-0" STAINLESS STEEL MOP HANGER.

• WALL-MOUNTED LAVATORY (ADA ACCESSIBLE): RECTANGULAR WALL-MOUNTED WHITE VITREOUS CHINA

FIXTURE WITH FAUCET LEDGE AND FRONT OVERFLOW. FAUCET: 4"CENTERSET, VANDAL—RESISTANT FAUCET WITH LEVER HANDLES AND 0.5 GPM AERATOR.

 TRIM: GRID DRAIN WITH TAILPIECE, QUARTER-TURN BALL TYPE ANGLE STOP VALVES WITH RISERS AND ESCUTCHEONS, 1-1/4"17-GAUGE TUBULAR CHROME PLATED BRASS ADJUSTABLE P-TRAP AND WASTE ARM WITH CLEANOUT PLUG AND ESCUTCHEON, CONCEALED ARM CARRIER WITH STANCHIONS TO FLOOR, AND INSULATION KIT FOR WATER AND WASTE PIPES.

 THERMOSTATIC MIXING VALVE: SOLID BRASS BODY, THERMOSTATIC WAX ELEMENT, CORROSION RESISTANT INTERNAL PARTS, AND INTEGRAL CHECKS, ASSE 1070 COMPLIANT, CAPABLE OF 2.2 GPM WITH A 20 PSI DIFFERENTIAL AND A MINIMUM FLOW RATE OF 0.5 GPM. MAXIMUM TEMPERATURE STOP SET FOR 110°F. MOUNT BELOW THE PLUMBING FIXTURE WHERE INDICATED ON PLANS.

• FLOOR-MOUNTED WATER CLOSET (ADA ACCESSIBLE): TANK TYPE WHITE VITREOUS CHINA FIXTURE WITH ELONGATED BOWL, 1.6 GALLON PER FLUSH, SIPHON FLUSH ACTION, AND CLOSE-COUPLED TANK WITH TRIP LEVER ON THE

WIDE SIDE OF THE STALL. • TRIM: WHITE OPEN-FRONT CONTOURED, SOLID PLASTIC, HEAVY-DUTY, SEAT-LESS-COVER WITH SELF-SUSTAINING HINGES AND STAINLESS STEEL BOLTS; QUARTER-TURN BALL TYPE ANGLE STOP VALVE WITH RISER AND CHROME-PLATED ESCUTCHEON.

 WALL CLEANOUT: CAST IRON CLEANOUT TEE, COUNTER-SUNK CAST IRON PLUG WITH GASKET SEAL, AND STAINLESS STEEL ROUND COVER WITH SCREW.

• WATER HEATER: ELECTRIC, 10 GALLON, 1.5 kW INPUT, 8 GALLON PER HOUR RECOVERY AT 80°F TEMPERATURE RISE AND 120°F OPERATING TEMPERATURE. PROVIDE ALL WATER CONNECTIONS, VALVES, AND SPECIALS PER MANUFACTURER'S INSTALLATION REQUIREMENTS. • ELECTRICAL REQUIREMENTS: 120-VOLT, SINGLE PHASE, 13

FULL LOAD AMPS. • BASIS OF DESIGN: A.O. SMITH MODEL # DEL-10.

### PLUMBING GENERAL NOTES:

JURISDICTION.

REQUIREMENTS.

- DRAWINGS ARE SCHEMATIC IN NATURE. COORDINATE ALL PLUMBING WORK WITH ARCHITECTURAL DRAWINGS AND
- PLUMBING WORK SHALL CONFORM TO APPLICABLE CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING
- EXACT LOCATION AND ELEVATIONS OF ALL UTILITIES SHALL BE VERIFIED PRIOR TO ANY INSTALLATION OF CONNECTIONS THEREOF. ALL CONNECTIONS TO UTILITIES (E.G. DOMESTIC WATER, SEWER, AND NATURAL GAS) SHALL BE MADE WITH APPROVAL OF THE ADMINISTRATIVE AUTHORITY AND THE RESPECTIVE UTILITY COMPANIES.
- SANITARY WASTE AND VENT PIPING BELOW GRADE SHALL BE SCHEDULE 40 PVC WITH SOLVENT-WELDED JOINTS.
- SANITARY WASTE AND VENT PIPING ABOVE GRADE SHALL BE NO-HUB CAST IRON IN RETURN AIR PLENUM APPLICATIONS. SCHEDULE 40 PVC PIPING WITH SOLVENT WELDED JOINTS CAN BE USED IN AREAS OTHER THAN RETURN AIR PLENUMS AS ALLOWED BY CODE.
- SLOPE SANITARY PIPING AS FOLLOWS: 1/4" PER FOOT FOR PIPE SIZES 2-1/2" AND SMALLER, AND 1/8" PER FOOT FOR PIPE SIZES 3" AND LARGER.
- PROVIDE WATER SUPPLY SHUT-OFF VALVES ON EACH TOILET ROOM GROUP AND TO MISCELLANEOUS EQUIPMENT.
- PROVIDE SIZE "A" WATER HAMMER ARRESTORS ON SUPPLY TO ALL PLUMBING FIXTURES.
- PROVIDE STOP VALVES ON ALL INDIVIDUAL PLUMBING FIXTURE SUPPLIES.
- COORDINATE SELECTION OF ALL PLUMBING FIXTURES WITH ARCHITECT AND OWNER. ALL HANDICAPPED FIXTURES (WHERE REQUIRED) SHALL COMPLY WITH A.D.A.
- DOMESTIC WATER PIPING BELOW GRADE SHALL BE TYPE K SOFT COPPER WITH FLARED FITTINGS OR TYPE K HARD COPPER WITH WROUGHT FITTINGS AND SOLDERED JOINTS.
- DOMESTIC WATER PIPING ABOVE GRADE SHALL BE TYPE L COPPER WITH WROUGHT FITTINGS AND SOLDERED JOINTS.
- PIPING WITH MINIMUM 1" FIBERGLASS INSULATION (MINIMUM R-4.0) WITH PAPER COVERING.
- NATURAL GAS AND COMPRESSED AIR PIPING SHALL BE SCHEDULE 40 BLACK STEEL WITH THREADED FITTINGS.

INSULATE NEW DOMESTIC COLD WATER AND HOT WATER

- PROIVDE RUST-INHIBITOR ON PAINT ALL NATURAL GAS PIPING LOCATED EXTERIOR TO THE BUILDING.
- PROVIDE A.G.A. APPROVED GAS COCKS AND DIRT LEGS AT CONNECTIONS TO ALL GAS-FIRED EQUIPMENT.
- INSTALL ALL PLUMBING EQUIPMENT, FIXTURES, VALVES, ETC. PER MANUFACTURER'S INSTALLATION REQUIREMENTS. PROVIDE ADDITIONAL APPURTENANCES PER MANUFACTURER'S INSTALLATION REQUIREMENTS.
- INSTALL CLEANOUTS AT EVERY END OF SANITARY PIPING RUNS. AT MINIMUM OF FVFRY 100'-0" OF SANITARY PIPING, AND AT EVERY CHANGE IN DIRECTION GREATER THAN 45°. REFER TO SECTION 708 OF THE INTERNATIONAL PLUMBING CODE FOR ADDITIONAL REQUIREMENTS.

OTHER TRADES PRIOR TO BID OR START OF WORK.

NUMBER / 、PE−2019012798 /كرر 07/13/2022

SCOTT D. GROSHANS MO LICENSE # PE-2019012798



ARCHITECTS ■ PLANNERS

A Division of Rose Design Build

AUTHORITY # A-83

913-782-0777 FAX: 913-782-0998 OLATHE, KS 66051 P.O. BOX 100 www.BuildWithRose.cor



## **Z**

**SUMMIT.MISSOUR OLDHA** 45

22009

06 / 14 / 2022

DATE NO. DESCRIPTION FOR PERMIT 06 / 14 / 2022 CITY COMMENTS 07 / 07 / 2022

PROJECT NUMBER DATE ISSUED:

SHEET NUMBER

PLUMBING DETAILS & SCHEDULES

Kansas City, MO 64105 Kansas COA: E-2361 ENGINEERS contact@5by5eng.com
5by5eng.com

07/19/2022

• REFER TO SHEET E3.0 FOR ELECTRICAL GENERAL NOTES.

### ELECTRICAL PLAN NOTES:

- 1. PROVIDE 120V CONNECTION TO OVERHEAD DOOR OPERATOR. MOUNT CONTROL STATION PROVIDED WITH DOOR IN LOCATION APPROVED BY OWNER ADJACENT TO OVERHEAD DOOR FOR PUSH-BUTTON CONTROLS. PROVIDE CONDUIT AND WIRING BETWEEN CONTROLLER AND OPERATOR. COORDINATE WITH DOOR INSTALLER FOR SPECIFIC ELECTRICAL REQUIREMENTS.
- 2. PROVIDE DISCONNECT AND FLEX CONNECTION TO BODY SHOP EQUIPMENT. VERIFY EXACT LOCATION AND SPECIFIC REQUIREMENTS PRIOR TO ROUGH IN. COORDINATE WITH OWNER LOCATION AND PHASING TO RELOCATE EQUIPMENT.
- PROVIDE DISCONNECT AND FLEXIBLE CONNECTION TO SHOP WELDING EQUIPMENT. CONFIRM ACTUAL REQUIREMENTS WITH SHOP OWNER PRIOR TO ROUGH-IN.
- 4. MOUNT 'CO' CONTROL PANEL ON WALL, AND ROUTE POWER WIRING TO EXHAUST FAN 'EF-2' AND MOTORIZED LOUVER 'L-1'. COORDINATE INSTALL WITH MECHANICAL CONTRACTOR. ALL FANS, LOUVERS & CONTROL DEVICES SHALL BE FURNISHED BY MECHANICAL. MOUNTING OF CONTROL PANEL AND ALL WIRING SHALL BE BY ELECTRICAL CONTRACTOR.
- 5. PROVIDE JUNCTION BOX FOR POWER TO CIRCULATION FAN, AND INSTALL FAN CONTROL DEVICE. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR. ALL FANS & CONTROL DEVICES SHALL BE FURNISHED BY MECHANICAL. MOUNTING OF CONTROL PANEL AND ALL WIRING SHALL BE BY ELECTRICAL CONTRACTOR
- 6. PROVIDE CONNECTION TO 1500 WATT 120V ELECTRIC WATER HEATER MOUNTED ABOVE THE CEILING. PROVIDE TOGGLE SWITCH DISCONNECT SWITCH.
- PROVIDE DISCONNECT AND FLEXIBLE CONNECTION TO AIR COMPRESSOR. COORDINATE HOOK-UP AND EXACT REQUIRMENTS WITH OWNER.
- 8. CONNECT BATHROOM EXHAUST FAN ON TO SWITCHED BATHROOM LIGHTS.
- 9. DUPLEX RECEPTACLE FOR SEPTIC TANK LEVEL MONITORING PANEL. COORDINATE EXACT LOCATION WITH PLUMBING CONTRACTOR.

5 B Y 5 1100 Main Street, 4th Floor Kansas City, MO 64105 Kansas COA: E-2361 913-689-9449

ENGINEERS contact@5by5eng.com
5by5eng.com

SCOTT D. GROSHANS MO LICENSE # PE-2019012798



ARCHITECTS ■ PLANNERS A Division of Rose Design Build

FAX: 913-782-0998 913-782-0777 OLATHE, KS 66051 P.O. BOX 100

www.BuildWithRose.com AUTHORITY # A-83



## SHO **OLDHAM PROPOSED**

**SUMMIT.MISSOURI** 

**LEE'S** DATE NO. DESCRIPTION FOR PERMIT 06 / 14 / 2022

451

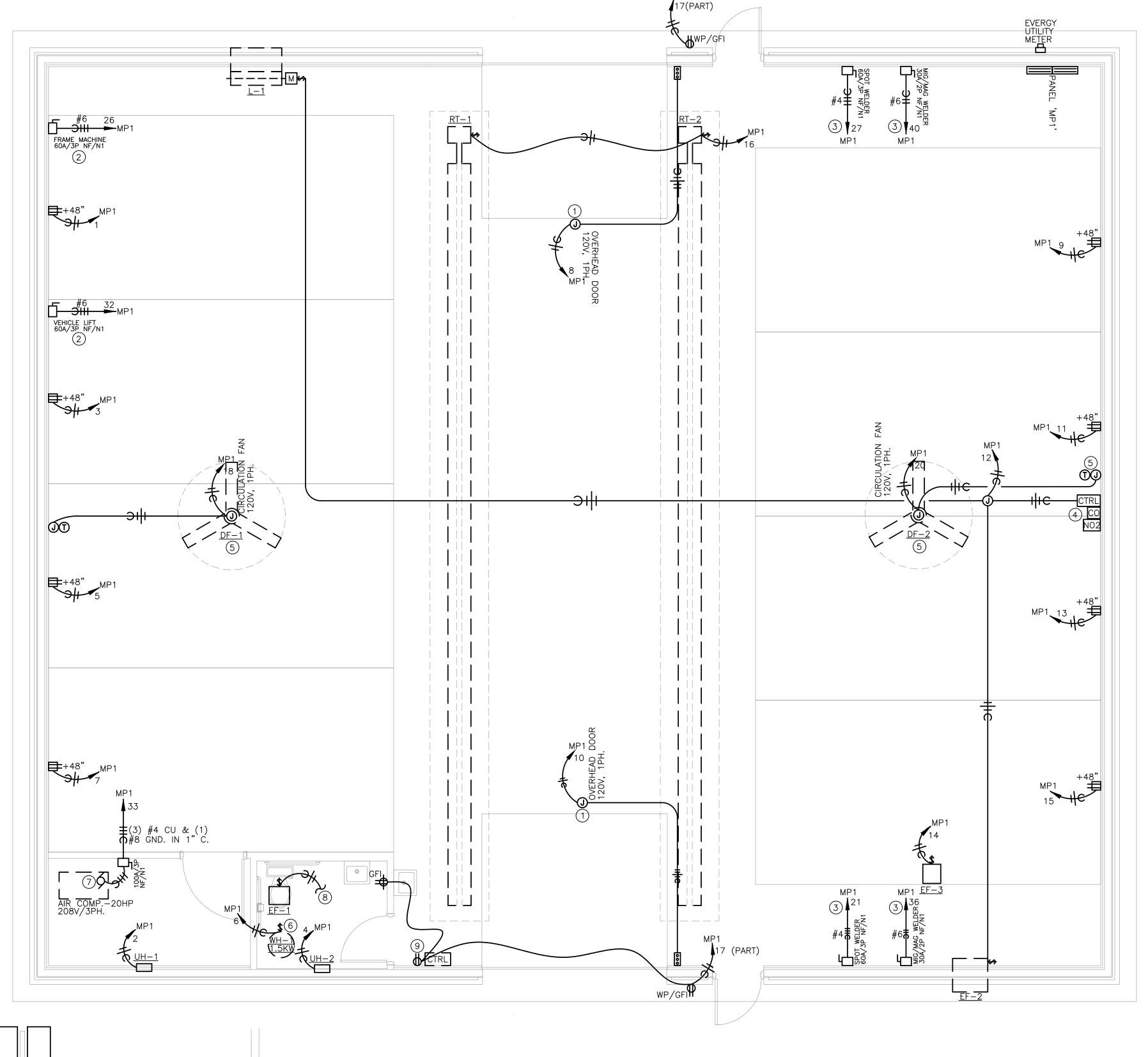
22009

06 / 14 / 2022

PROJECT NUMBER DATE ISSUED:

SHEET NUMBER

ELECTRICAL POWER PLAN

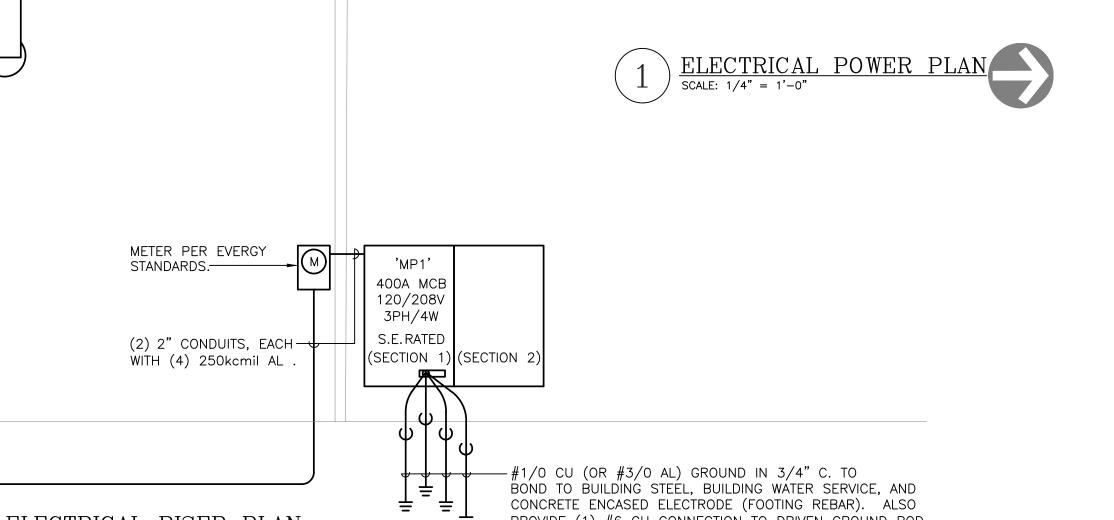


NEW UTILITY POLE MOUNT—— TRANSFORMERS (3) 37.5kva ESTIMATED AVAILABLE FCA ~ 15,139A NOTE: FINAL AVAILABLE FAULT CURRENT SHALL BE DETERMINED BY EVERGY.

Jun 15, 2022 — 7: 42am — USEK SCOTGGOSDAGES
C:\USers\ScottGroshans\Dropbox (5by5 Engineers)\5BY5 ACTIVE PROJECTS\202200038 Crash Champions Lees Summit — Rose\Base—CAD\202200038 ELEC.dwg
C:\USers\ScottGroshans\Dropbox (5by5 Engineers)\5BY5 ACTIVE PROJECTS\202200038 Crash Champions Lees Summit — Rose\Base—CAD\202200038 ELEC.dwg
CONTIDENTIAL — PROPRIETARY: THIS DOCUMENT IS THE PROPERTY OF ROSE DESIGN GROUP INC. AND IS LOANED IN CONFIDENCE WITH THE UNDERSTANDING THAT IT IS NOT TO BE COPIED OR REPRODUCED WITHOUT THE EXPRESS WRITTEN PERMISSION OF, AND THE PROPERTY TO BOSE DESIGN GROUP INC. ALL PATENT RIGHTS ARE RESERVED.

ALL SERVICE ENTRANCE AND DISTRIBUTION EQUIPMENT SHALL BE RATED TO ACCOMMODATE AND SAFELY INTERRUPT AVAILABLE FAULT CURRENT. SERIES RATED EQUIPMENT PER NEC, UL AND MANUFACTURERS REQUIREMENTS IS ACCEPTABLE.

ELECTRICAL CONTRACTOR SHALL PROVIDE ENOUGH CONDUCTOR AND PVC CONDUIT TO EXTEND UP THE POLE. ALL WORK SHALL BE PER EVERGY STANDARDS.



-#1/0 CU (OR #3/0 AL) GROUND IN 3/4" C. TO BOND TO BUILDING STEEL, BUILDING WATER SERVICE, AND CONCRETE ENCASED ELECTRODE (FOOTING REBAR). ALSO PROVIDE (1) #6 CU CONNECTION TO DRIVEN GROUND ROD.

ELECTRICAL RISER PLAN NO SCALE:

MO LICENSE # PE-2019012798

ARCHITECTS ■ PLANNERS

DESIGN GROUP

A Division of Rose Design Build

913-782-0777 FAX: 913-782-0998 P.O. BOX 100 OLATHE, KS 66051 KANSAS STATE CERTIFICATE OF www.BuildWithRose.com

AUTHORITY # A-83

CRASHCHAMPIONS COLLISION REPAIR TEAM

LEE'S SUMMIT.MISSOURI

NO. DESCRIPTION DATE 06 / 14 / 2022 FOR PERMIT

PROJECT NUMBER DATE ISSUED:

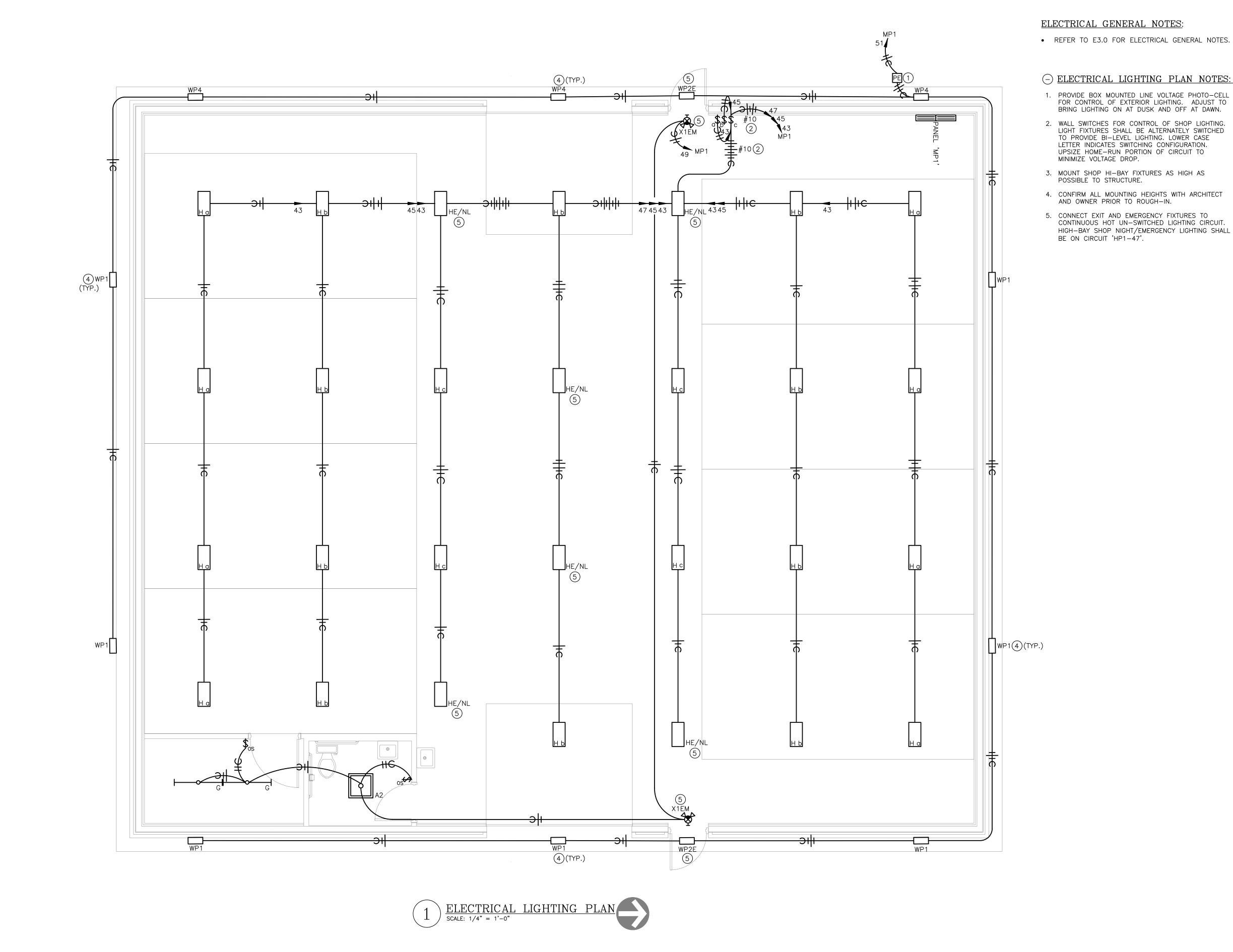
SHEET NUMBER

**PROPOSED** 

22009

06 / 14 / 2022

ELECTRICAL LIGHTING PLAN



1100 Main Street, 4th Floor Kansas City, MO 64105 Kansas COA: E-2361 913-689-9449 contact@5by5eng.com
5by5eng.com

Jun 15, 2022 — 7:42am — USEK SCOTGORGOS C:\Users\ScottGroshans\Dropbox (5by5 Engineers)\5BY5 ACTIVE PROJECTS\202200038 Crash Champions Lees Summit — Rose\Base—CAD\202200038 ELEC.dwg CONFIDENTIAL - PROPRIETARY THIS DOCUMENT IS THE PROPERTY OF ROSE DESIGN GROUP INC. AND IS SUBJECT TO RETURN UPON REQUEST. THE DOCUMENT INCLUDES CONFIDENTIAL AND THAT CONFIDENCE WITH THE UNDERSTANDING THAT IT IS NOT TO BE COPIED OR REPRODUCED WITHOUT THE EXPRESS WRITTEN PERMISSION OF, AND THAT INCLUDING ON THEREON WILL BE USED ADVERSELY TO ROSE DESIGN GROUP INC. ALL PATENT RIGHTS ARE RESERVED.

07/19/2022

- DEMOLITION

### <u>LIGHTING LEGEND</u>:

• CEILING MOUNTED LIGHT FIXTURE, 2'x2' OR 2'x4'

CEILING MOUNTED LIGHT FIXTURE, 2'x2' OR 2'x4' (NIGHT LIGHT OR EMERGENCY CIRCUIT) STRIP LIGHT FIXTURE. REFER TO FIXTURE SCHEDULE FOR LENGTH.

WALL-MOUNT SCONCE OR WALL BRACKET LIGHT FIXTURE.

RECESSED, SURFACE, OR STEM HUNG LIGHT

• RECESSED WALL WASH CAN LIGHT FIXTURE.

FIXTURE. SINGLE FACE EXIT LIGHT FIXTURE. WALL OR CEILING MOUNT, WITH FIELD CONFIGURABLE ARROWS. PROVIDE DIRECTIONAL ARROWS AS INDICATED ON DRAWINGS. SHADED AREA

DOUBLE FACE EXIT LIGHT FIXTURE, WALL OR CEILING MOUNT, WITH FIELD CONFIGURABLE ARROWS. PROVIDE DIRECTIONAL ARROWS AS INDICATED ON DRAWINGS. SHADED AREA INDICATES EXIT LIGHT FACE.

INDICATES EXIT LIGHT FACE.

COMBINATION SINGLE FACE EXIT/EMERGENCY LIGHT FIXTURE, WALL OR CEILING MOUNT, WITH FIELD CONFIGURABLE ARROWS. PROVIDE DIRECTIONAL ARROWS AS INDICATED ON DRAWINGS. SHADED AREA INDICATES EXIT LIGHT

NOTE: REFER TO LIGHT FIXTURE SCHEDULE AND ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION AND MOUNTING HEIGHTS.

### POWER LEGEND:

- -INDICATES ABOVE COUNTER (TYP)
- DUPLEX RECEPTACLE MOUNTED AT +18"AFF TO ➡ CENTER OF RECEPTACLE (UNO). ABOVE COUNTER RECEPTACLES SHALL BE +48"AFF (UNO).
- DUPLEX ISOLATED GROUND RECEPTACLE MOUNTED AT +18"AFF TO CENTER OF RECEPTACLE (UNO). ABOVE COUNTER RECEPTACLES SHALL BE +48"AFF (UNO).
- DUPLEX RECEPTACLE ON STAND-BY GENERATOR POWER, MOUNTED AT +18"AFF TO CENTER OF RECEPTACLE (UNO). RECEPTACLES SHOWN ABOVE COUNTER SHALL BE +48"AFF (UNO).
- FLOOR-MOUNTED DUPLEX OR FOURPLEX RECEPTACLE MOUNTED IN PVC FLOORBOX, OR POKE-THRU
- SPECIAL RECEPTACLE, NUMBER REFERS TO "NEMA" CONFIGURATION. MOUNT AT +18"AFF TO CENTER OF RECEPTACLE (UNO).
- FOURPLEX RECEPTACLE MOUNTED AT +18"AFF TO CENTER OF RECEPTACLE (UNO). RECEPTACLES SHOWN TO BE ABOVE COUNTER SHALL BE +48"AFF
- FLUSH MOUNT COMBINATION POWER AND VOICE/DATA
- SINGLE POLE WALL MOUNT TOGGLE SWITCH. MOUNT AT +48"AFF TO CENTER OF SWITCH.
- WALL MOUNTED OCCUPANCY SENSOR SWITCH. MOUNT AT +48"AFF TO CENTER OF SWITCH.
- \$8 WALL MOUNTED OCCUPANCY SENSOR SWITCH WITH 0-10V DIMMING CONTROL. MOUNT AT +48"AFF TO
- \$≥ WALL MOUNTED LOW VOLTAGE SWITCH WITH 0-10V DIMMING CONTROL. MOUNT AT +48"AFF TO CENTER OF SWITCH.
- (OS) CEILING MOUNTED OCCUPANCY SENSOR.

CENTER OF SWITCH.

DRC1 ROOM CONTROLLER/POWER PACK FOR LIGHT FIXTURE CONTROL. DEVICE SHALL BE CONCEALED IN CEILING.

- VOICE OPENING. PROVIDE RING WITH STRING TO ABOVE CEILING. DEVICES SHOWN TO BE COUNTER SHALL BE +48"AFF (UNO).
- DATA OPENING. PROVIDE RING WITH STRING TO ABOVE CEILING. DEVICES SHOWN TO BE COUNTER SHALL BE +48"AFF (UNO).
- COMBINATION VOICE/DATA OPENING. PROVIDE RING WITH STRING TO ABOVE CEILING. DEVICES SHOWN TO BE COUNTER SHALL BE +48"AFF (UNO).
- FLUSH FLOOR MOUNT VOICE/DATA OUTLET MOUNTED IN PVC FLOORBOX.

DISCONNECT SWITCH, STARTER, & COMBINATION ☐ 🛛 🔀 STARTER/DISCONNECT SWITCH. SIZE AS INDICATED ON

[ ] ELECTRICAL PANEL BOARD, FLUSH OR SURFACE MOUNT

J JUNCTION BOX

NOTE: LINE THROUGH DEVICE INDICATES TO BE MOUNTED ABOVE COUNTERTOP OR CABINET. REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS IF NOT INDICATED ON POWER PLAN.

REFER TO LIGHTING CONTROL DEVICE SCHEDULE AND ARCHITECTURAL DRAWINGS FOR FURTHER INFORMATION.

### WIRING LEGEND:

HOMERUN TO PANELBOARD WITH NUMBER AND SIZE OF CONDUCTORS INDICATED ON PLANS.

--- GROUNDED CONDUCTOR. CONDUIT OR CIRCUIT BREAK/CONTINUATION.

CONDUIT WITH ENDCAP FOR FUTURE USE. GROUNDING SOURCE.

ABBREVIATIONS LEGEND:

ABOVE FINISHED FLOOR EXISTING TO BE DEMOLISHED EMERGENCY

EXISTING TO BE RELOCATED EXISTING TO REMAIN GROUND FAULT CURRENT INTERRUPTER NIGHT LIGHT

TAMPER RESISTANT UNO UNLESS NOTED OTHERWISE WEATHER PROTECTED COVER / GFCI

							LIGHT	FIXTUR	E SCHE	DULE	
TYPE	MANUFACTURER AND MODEL#	LIGHT SOURCE	WATT S	MINIMUM LUMENS	VOLTAG E	CRI	COLOR TEMP	DIMMAB LE	FINISH	DESCRIPTION	NOTES
A2	METALUX 22FR-LD4-32-UNV- L835-CD1	INTEGRAL LED	30	3300	UNV	80	3500	0-10V / 10%	WHITE	2'X2' LED LIGHT TROFFER WITH CENTER BASKET, 3500K COLOR TEMPERATURE DIMMABLE UNIVERSAL VOLTAGE DRIVER.	1-5
EM	SURE LITES XR-6/9-C	INTEGRAL LED	6	1100	UNV	80	-	0-10V / 10%	WHITE	EMERGENCY WALL MOUNTED FIXTURE. FIXTURE SHALL BE PROVIDED WITH INTEGRAL EMERGENCY 90 MINUTE BATTERY PACK.	1-5
Н	BUILDERS PACK TR08-165W- 2FT-40K-PDN	INTEGRAL LED	165	20900	UNV	80	4000	0-10V / 10%	WHITE	LED HIGHBAY CABLE MOUNTED, 20,900 LUMEN PACKAGE. 4000K PROVIDE WITH WIREGUARD. PROVIDE WITH POWER CORD AND AIRCRAFT CABLE. CONFIRM LENGTHS NEEDED PRIOR TO ORDERING.	1-5
HE	BUILDERS PACK TR08-165W- 2FT-40K-PDN -EM	INTEGRAL LED	165	20900	UNV	80	4000	0-10V / 10%	WHITE	LED HIGHBAY CABLE MOUNTED, 20,900 LUMEN PACKAGE. 4000K PROVIDE WITH WIREGUARD. PROVIDE WITH POWER CORD AND AIRCRAFT CABLE. CONFIRM LENGTHS NEEDED PRIOR TO ORDERING.FIXTURE SHALL BE PROVIDED WITH INTEGRAL EMERGENCY 90 MINUTE BATTERY PACK.	1-5
G	HE WILLIAMS - 75S-4-L65-8- 40-DMA-DIM-UNV	INTEGRAL LED	43	6500	UNV	80	4000	0-10V / 10%	WHITE	LED LINEAR RIGID CHAIN OR AIRCRAFT CABLE SUSPENDED TO 10'-0" AFF.	1-5
WP1	MCGRAW EDISON - GLEON- SA3D-740-U-SL4	INTEGRAL LED	95	22,500	UNV	80	4000	NA	DARK BRONZE	LED ARCHITECTURAL SITE WALL MOUNTED FIXTURE. MOUNT AT 18'-0" A.G.	1-5
WP2E	MCGRAW EDISON - IST-SA1-E- 740-U-T4FT-XX-CBP	INTEGRAL LED	25	2200	UNV	80	4000	NA		EXTERIOR LED WALL PACK. FIXTURE SHALL BE PROVIDED WITH INTEGRAL EMERGENCY 90 MINUTE BATTERY PACK.	1-5
WP4	MCGRAW EDISON - GLEON- SA3D-740-U-SL2-HSS	INTEGRAL LED	95	19,600	UNV	80	4000	NA	DARK BRONZE	LED ARCHITECTURAL SITE WALL MOUNTED FIXTURE. PROVIDE WITH HOUSE SHIELD.	1-5
X1EM	SURELITE SLX70RWH	INTEGRAL LED	10.3	-	UNV	NA	NA	NA	WHITE	COMBINATION EMERGENCY EGRESS /SINGLE FACE LED EXIT LIGHT FIXTURE WITH BATTERY PACK, RED LETTERS AND FIELD CONFIGURED ARROWS.	1-5

EM - EMERGENCY LTG. / LOCKING TAB OL - RE: ONE-LINE DIAGRAM

EM - EMERGENCY LTG. / LOCKING TAB OL - RE: ONE-LINE DIAGRAM

1. COORDINATE ALL LIGHT FIXTURE SELECTIONS AND/OR SUBSTITUTIONS WITH ARCHITECT, OWNER AND/OR ENGINEER PRIOR TO ORDER.

2. PROVIDE LIGHTING CONTROLS THAT ARE COMPATIBLE WITH FIXTURES PROVIDED.

3. COORDINATE WITH ARCHITECT, OWNER AND/OR ENGINEER FOR DIMMING REQUIREMENTS PRIOR TO INSTALLATION.

TOTAL PANELBOARD DEMAND (AMPS)

TOTAL PANELBOARD DEMAND (AMPS)

4. PROVIDE ALL COMPONENTS AND ACCESSORIES AS REQUIRED FOR A COMPLETE AND OPERABLE INSTALLATION.

. EQUIVALENTS MUST BE SUBMITTED AND APPROVED PRIOR TO BID.

						PANE	FI BO	ARD N	ЛР1					
	BUS AMPS:	400A				LOCATION			CAL ROOM		GRO	DUND B	US: YES	
	MAIN SIZE / TYPE:	MCB				NEMA RAT		NEMA 1	JAL INGOW		0.000		JND BUS: NO	
	VOLTS/PHASE:	208Y/120	0V. 3	3PH. 4W	!	AFC VALU						D THRU	The state of the s	
	MOUNTING:	SURFAC	-	, , , , , ,		AIC RATIN		22K			_	CTIONS:	1 OF 2	
CKT	CIRCUIT	BREAK		WRE	LOAD		TED PER F		LOAD	WRE	_	EAKER	CIRCUIT	СКТ
#	DESCRIPTION	0 - 1 de 11 de - 12 de 11 de 1	Р	SIZE	(VA)	A	В	C	(VA)	SIZE	P	AMPS	DESCRIPTION	#
1	RECEPTACLES - SERVICE BAY	20	1		360	2,160			1,800		1	20	UNIT HEATER 'UH-1'	2
3	RECEPTACLES - SERVICE BAY		1		360	, , , , , , , , , , , , , , , , , , , ,	2,160		1,800		1	20	UNIT HEATER 'UH-2'	4
5	RECEPTACLES - SERVICE BAY	20	1		360		,	1,860	1,500		1	20	WATER HEATER 'WH-1'	6
7	RECEPTACLES - SERVICE BAY	20	1		360	1,360			1,000		1	20	OVERHEAD DOOR	8
9	RECEPTACLES - SERVICE BAY	20	1		360		1,360		1,000		1	20	OVERHEAD DOOR	10
11	RECEPTACLES - SERVICE BAY	20	1		360	•		1,110	750		1	20	EXAUST FAN 'EF-2'	12
13	RECEPTACLES - SERVICE BAY	20	1		360	610			250		1	20	EXAUST FAN 'EF-3'	14
15	RECEPTACLES - SERVICE BAY	20	1		360		1,460		1,100		1	20	RADIANT HEATERS	16
17	RECEPTACLES	20	1		360			1,110	750		1	20	CEILING FAN 'DF-1'	18
19					5,000	5,750			750		1	20	CEILING FAN 'DF-2'	20
21	SPOT WELDER	60	3	#4	5,000		5,000		0		1	20	SPARE	22
23					5,000			9,000	4,000		-	-	-	24
25					5,000	9,000			4,000	#6	3	60	FRAME MACHINE	26
27	SPOT WELDER	60	3	#4	5,000		9,000		4,000		-		-	28
29					5,000			9,000	4,000		-	-	-	30
31					7,000	11,000			4,000	#6	3	60	VEHICLE LIFT	32
33	AIR COMPRESSOR	100	3	#4	7,000		11,000		4,000		-	-	-	34
35	00.00				7,000	0.000		9,600	2,600	#6	2	30	MIG/MAG WELDER	36
37	SPARE	20	1		0	2,600	0.000		2,600					38
39	SPARE	20	1		0		2,600	0.000	2,600	#6	2	30	MIG/MAG WELDER	40
41	SPARE	20	1		0			2,600	2,600					42
	PER PHASE SUB-TOTALS						32,580	34,280	LEGEND:					
	TOTA	TOTAL CONNECTED PANELBOARD (VA)					99,340		TS - VIA TI	IME SW	TCH		ST - SHUNT TRIP	
	TOTAL	CONNECTED F	PAN	ELBOAF	RD (AMPS)		276		GF - GRO	UND FA	ULT	NTERR	UPTER LCK - LOCKING TAE	3
		TOTAL PANEL	BO/	ARD DE	MAND (VA)		104,840		FA - FIRE	ALARM	/ REI	) / LOCI	KING TAB IG - ISOLATED GRO	UND

						LHIAL	LDO	AND I							
	BUS AMPS:	400A				LOCATION			CAL ROOM			DUND B		YES	
	MAIN SIZE / TYPE:	MLO				NEMA RAT		NEMA 1					UND BUS:	NO	
	VOLTS/PHASE:	208Y/12	20V, 3	3PH, 4W		AFC VALU							J LUGS:	NO	
	MOUNTING:	SURFAC	CE			AIC RATIN	G:	22K			SEC	TIONS:		2 OF 2	
CKT	CIRCUIT	BREAK	(ER	WIRE	LOAD	CONNEC	TED PER	PHASE (VA)	LOAD	WIRE	BR	EAKER	CIF	RCUIT	CKT
#	DESCRIPTION	AMPS	Р	SIZE	(VA)	Α	В	С	(VA)	SIZE	Р	AMPS	DES	SCRIPTION	#
43	LIGHTING - SHOP AREA	20	1		1,320	1,320			0		1	20	SPARE		44
45	LIGHTING - SHOP AREA	20	1		1,650		1,650		0		1	20	SPARE		46
47	LIGHTING - SHOP AREA	20	1		1,650			1,650	0		1	20	SPARE		48
49	LIGHTING - RR, EXITS & COMP. RM	20	1		950	950			0		1	20	SPARE		50
51	LIGHTING - EXTERIOR	20	1		0		0		0		1	20	SPARE		52
53	SPARE	20	1		0			0	0		1	20	SPARE		54
55	SPARE	20	1		0	0			0		1	20	SPARE		56
57	SPARE	20	1		0		0		0		1	20	SPARE		58
59	SPARE	20	1		0			0	0		1	20	SPARE		60
61	SPARE	20	1		0	0			0		1	20	SPARE		62
63	SPARE	20	1		0		0		0		1	20	SPARE		64
65	SPARE	20	1		0			0	0		1	20	SPARE		66
67	SPACE O NLY				0	0			0				SPACE ON	CA 10	68
69	SPACE O NLY				0		0		0				SPACE ON		70
71	SPACE O NLY				0			0	0				SPACE ON		72
73	SPACE O NLY				0	0			0				SPACE ON		74
75	SPACE O NLY				0		0		0				SPACE ON		76
77	SPACE O NLY				0			0	0				SPACE ON		78
79	SPACE O NLY				0	0			0				SPACE ON		80
81	SPACE O NLY				0		0		0				SPACE ON	1.0 (1.7%)	82
83	SPACE O NLY				0			0	0				SPACE ON	LY	84
		PER	RPH	IASE SUI	B-TOTALS	2,270	1,650	1,650	LEGEND:						
	TOTAL C	TOTAL CONNECTED PANELBOARD (VA) TAL CONNECTED PANELBOARD (AMPS)					5,570		TS - VIA TI	ME SWI	TCH			ST - SHUNT TRIP	
	TOTAL CON						15		GF - GRO	UND FAI	JLT	NTERR	UPTER	LCK - LOCKING TAB	
					MAND (VA)		6,963		FA - FIRE	ALARM/	REI	)/LOC	KING TAB	IG - ISOLATED GROUN	1D
	T0T41	D 4 4 1 5 1 D 0			ID (41 4D 0)		4.0							a. DE AMELINE DI	

PANEL BOARD MP1

COMMER	CIAL LOAD	SUN	/IMARY		
BUILDING AREA: 4,200 SQ. FT	VOLTAGE:	208Y	//120V, 3PH	, 4W	
	CONNECTED		DEMAND		DEMAND
LOAD DESCRIPTION	LOAD (VA)		FACTOR		LOAD (VA)
LIGHTING	·				
INTERIOR LIGHTING	4,620	X	125%	=	0
EXTERIOR LIGHTING	950	X	125%	=	1,188
SIGNAGE	0	Х	125%		0
MINIMUM GENERAL LIGHTIN	NG PER NEC-220	) x 12	5%		7,875
MINIMUM TRACK LIGHTING,	SHOW WINDO	W PE	R NEC-220 x	1259	0
POWER & HVAC EXISTING	0	X	100%	=	C
RECEPTACLES	3,240		100%	=	
MISCELLANEOUS EQUIPMEN		X	100%	-	3,240 64,400
REFRIGERATION EQUIPMENT		X	100%	=	0-,,-00
KITCHEN	0	X	100%	=	0
HVAC - SUMMER	0	х	100%	=	0
HVAC - WINTER	0	х	100%	=	0
SUPP. ELECTRIC HEAT	5,100	X	100%	=	5,100
MOTORS	26,600	х	100%	=	26,600
LARGEST MOTOR	0	Х	25%	=	0
CLID TOTAL (VA	104,910	SUB-TOTAL (VA)			108,403
SUB-TOTAL (VA			D TOTAL /AN	ADC)	301
SUB-TOTAL (VA SUB-TOTAL (AMPS	5) 291	SU	B-TOTAL (AN	VIPS)	301
	5) 291		/ICE SIZE (AN	, -	400

1100 Main Street, 4th Floor Kansas City, MO 64105 Kansas COA: E-2361 ENGINEERS contact@5by5eng.com 5by5eng.com

<u>ELECTRICAL GENERAL NOTES:</u>

- DRAWINGS ARE SCHEMATIC IN NATURE AND BASED ON PRELIMINARY SITE OBSERVATION AND ORIGINAL DESIGN DRAWINGS (WHEN AVAILABLE). PRIOR TO BID, CONTRACTOR SHALL INVESTIGATE THE PROJECT SITE AND BECOME FULLY AWARE OF ALL FIELD CONDITIONS, CURRENT SYSTEM OPERATION AS WELL AS COORDINATION REQUIREMENTS. COORDINATE ALL MECHANICAL WORK WITH ARCHITECTURAL DRAWINGS, EXISTING CONDITIONS AND OTHER TRADES PRIOR TO BID OR START OF WORK.
- ELECTRICAL WORK SHALL CONFORM TO APPLICABLE CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION. REFER TO ARCHITECTURAL CODE PLANS FOR SPECIFIC CODE REFERENCES.
- COORDINATE ELECTRICAL WORK WITH ALL OTHER PROJECT TRADES (E.G. ARCHITECTURAL, STRUCTURAL, ELECTRICAL, PLUMBING, FIRE SPRINKLER, ETC.).
- COORDINATE EXACT LOCATIONS OF ALL LIGHT FIXTURES AND ELECTRICAL DEVICES WITH ARCHITECTURAL DRAWING AND OTHER TRADES PRIOR TO ROUGH-IN. COORDINATE ALL WORK WITH OTHER TRADES AND EXISTING CONDITIONS AS REQUIRE TO PROPERLY INSTALL ALL SYSTEMS.
- INSTALL PULL STRING IN ALL EMPTY CONDUIT/RACEWAY. TERMINATE CONDUIT STUB-UP WITH A NYLON BUSHING.
- COLOR FOR RECEPTACLES, SWITCHES, NETWORK DEVICES AND COVER PLATES SHALL MATCH. COLOR SHALL MATCH AND BE SELECTED AS BRIGHT WHITE UNLESS NOTED OTHERWISE. CONFIRM EXACT COLOR WITH ARCHITECT PRIOR TO ORDER.
- ELECTRICAL CONTRACTOR SHALL INSPECT ALL ELECTRICAL EQUIPMENT TO REMAIN. REPORT ANY DEFICIENCIES TO OWNER PRIOR TO START OF WORK.
- ALL CONDUCTORS SHALL BE INSTALLED IN ELECTRICAL METALLIC TUBING (EMT) AND SHALL CONFIRM TO THE NATIONAL ELECTRIC CODE (NEC). ALL INSTALLATION SHALL BE PER NEC REQUIREMENTS. ALL WIRING IN CONDUIT SHALL BE SURFACE MOUNTED.
- IF ACCEPTABLE BY OWNER, MC CABLE CAN BE USED FOR CIRCUITING TO LIGHTING WIRING AT STRUCTURE. "HOME RUNS" SHALL BE ROUTED IN CONDUIT. ALL WIRING SHALL BE PER NEC REQUIREMENTS.
- CONTRACTOR SHALL VERIFY ALL ROUGH—IN LOCATIONS AND QUANTITIES FOR GENERAL USE POWER AND DATA WITH OWNER AND/OR ARCHITECT PRIOR TO INSTALLATION.
- ALL WIRE SIZES LISTED ON PLANS ASSUME COPPER CONDUCTORS ARE USED (UNLESS NOTED OTHERWISE).
- CONTRACTOR SHALL LABEL ALL RECEPTACLES, BOXES, PANELBOARDS, ETC. WITH PANEL, CIRCUIT NUMBER, ETC. PER INDUSTRY STANDARDS. COORDINATE WITH OWNER FOR FINAL PANEL AND EQUIPMENT DESIGNATIONS.

SCOTT D. GROSHANS

、PE≚2019012798 /كرر

MO LICENSE # PE-2019012798

DESIGN GROUP

ARCHITECTS ■ PLANNERS A Division of Rose Design Build

913-782-0777 FAX: 913-782-0998 OLATHE, KS 66051 P.O. BOX 100 KANSAS STATE CERTIFICATE OF www.BuildWithRose.com



### COLLISION REPAIR TEAM

## **Z**

**UMMIT.MISSOUR** 

NO.	DESCRIPTION	DATE
	FOR PERMIT	06 / 14 / 2022

PROJECT NUMBER DATE ISSUED:

SHEET NUMBER

06 / 14 / 2022

**ELECTRICAL SCHEDULES** AND DETAILS



### RELEASED FOR CONSTRUCTION

As Noted on Plans Review

Development Services Department Lee's Summit, Missouri 07/19/2022

MiTek USA, Inc. 16023 Swingley Ridge Rd Chesterfield, MO 63017 314-434-1200

Re: Crash\_Champions P220338

The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Premier Building Supply (Springhill, KS)20300 W 207th Street.

Pages or sheets covered by this seal: I52937126 thru I52937127

My license renewal date for the state of Missouri is December 31, 2023.

Missouri COA: Engineering 001193

## SUBMITTAL: Crash Champions - Body Shop Wood Truss - shop drawings SIGN GROUP APPROVED APPROVED AS NOTED REVISE & RESUBMIT REJECTED By: Chris Bell 07/15/2022

This review is only for general conformance of the project and general compliance. Corrections or comments made on these drawings during this review do not relieve Subcontractor from compliance with the requirements of the plans and specifications. Subcontractor is responsible for all dimensions and fabrication to be confirmed and correlated at the job site



July 7,2022

Sevier, Scott ,Engineer

**IMPORTANT NOTE:** The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

RELEASED FOR CONSTRUCTION Job Truss Truss Type Qty P220338 As Noted on Plans Review CRASH CHAMPIONS R1 COMMON 34 | Job Reference (optional) | Development Services Department | 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jul 6.14:59:38 2022 | Rage 1 | ID:UsnmMoJ??D9rs0dz4hvUoYz4Nax-oW2pk?G6Q2N\_f5amAfV7KUW4oUB3z5y ugcz4ez Idl 37-4-4 | 44-8-9 | 52-0-13 | 60-0-0 | 0771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 10771 8/46/22 | 107 Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

7-4-4

37-4-4

7-4-4

44-8-9

7-4-4

52-0-13

7-4-4

Structural wood sheathing directly applied.

1 Row at midpt

Rigid ceiling directly applied or 10-0-0 oc bracing.

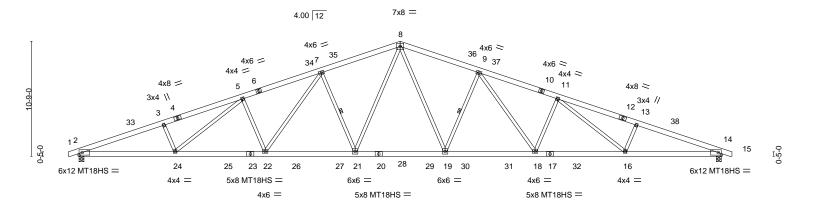
7-21, 9-19

Scale = 1:107.6

1-0-0

60-0-0

7-11-3



8-11-12	17-4-11	25-9-9	34-2-7	42-7-5	51-0-4	60-0-0	
8-11-12	8-4-14	8-4-14	8-4-14	8-4-14	8-4-14	8-11-12	
LOADING (psf) TCLL (roof) 25.0 Snow (Ps/Pg) 19.3/25.0 TCDL 15.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IBC2021/TPI2014	BC 0.	.97 Vert(l .54 Vert(l .74 Horz(	L) -0.60 19-21 CT) -1.11 19-21	l/defl L/d >999 240 >646 180 n/a n/a	PLATES MT20 MT18HS Weight: 357 lb	<b>GRIP</b> 197/144 197/144 FT = 20%

BRACING-

**WEBS** 

TOP CHORD

**BOT CHORD** 

LUMBER-TOP CHORD **BOT CHORD** 

REACTIONS.

2x6 SPF No 2 2x6 SP 2400F 2.0E

**WEBS** 2x4 SPF No.3

> 2=0-5-8, 14=0-5-8 (size)

Max Horz 2=-123(LC 14)

Max Grav 2=3318(LC 28), 14=3318(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-8077/76, 3-5=-7889/101, 5-7=-7005/134, 7-8=-5728/167, 8-9=-5728/167,

9-11=-7005/134, 11-13=-7890/101, 13-14=-8078/76 BOT CHORD

2-24=-27/7556, 22-24=0/6924, 21-22=0/5900, 19-21=0/4744, 18-19=0/5825,

16-18=0/6832, 14-16=-19/7464

WEBS 3-24=-323/108, 5-24=0/751, 5-22=-831/95, 7-22=0/1319, 7-21=-1332/117, 8-21=-7/1739,

8-19=-7/1739, 9-19=-1332/117, 9-18=0/1319, 11-18=-831/95, 11-16=0/751,

13-16=-323/108

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=16ft; B=70ft; L=60ft; eave=7ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-13 to 5-1-3, Interior(1) 5-1-3 to 30-0-0, Exterior(2R) 30-0-0 to 36-0-0, Interior(1) 36-0-0 to 60-10-13 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

7-4-4

- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Roof design snow load has been reduced to account for slope.
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 19.3 psf on overhangs non-concurrent with other live loads.
- 7) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
- 8) All plates are MT20 plates unless otherwise indicated.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.



July 7,2022



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chorembers only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

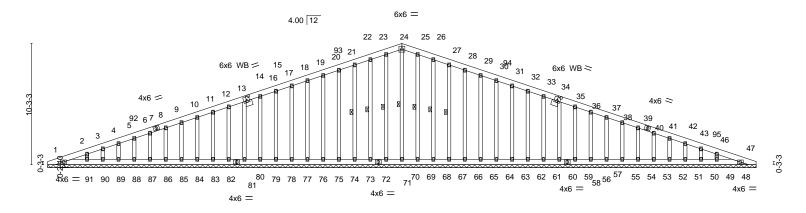


16023 Swingley Ridge Rd Chesterfield, MO 63017

CONSTRUCTION Job Truss Truss Type Qty P220338 As Noted on Planse Review CRASH CHAMPIONS R1GB **GABLE** 2 | Job Reference (optional) | Development Services Department |
8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jul 6 14: 59:43 2027 | Dage |
ID:UsnmMoJ??D9rs0dz4hvUoYz4Nax-9UrinjkFEb?Hms | TkzCSI1YDA8VaUrinjkFusz-ldg |
60-0-0 Job Reference (optional) Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 30-0-0 30-0-0

Scale = 1:97.6

RELEASED FOR



'		60-0-0						
Plate Offsets (X,Y) [14:0-3-0,	,0-4-4], [34:0-3-0,0-4-4]							
LOADING (psf) TCLL (roof) 25.0 Snow (Ps/Pg) 19.3/25.0 TCDL 15.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.04 BC 0.02 WB 0.18	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) n/a - n/a - 0.00 47	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	<b>GRIP</b> 197/144
BCDL 0.0	Code IBC2021/TPI2014	Matrix-S					Weight: 446 lb	FT = 20%

60-0-0

LUMBER-BRACING-

TOP CHORD 2x6 SPF No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. **BOT CHORD** 2x6 SPF No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

**OTHERS** 2x4 SPF No.3 \*Except\* **WEBS** 1 Row at midpt 24-69, 23-70, 22-72, 21-73, 25-68, 26-67, 14-14,34-34: 2x6 SPF No.2

REACTIONS. All bearings 60-0-0. (lb) - Max Horz 1=-117(LC 14)

Max Grav All reactions 250 lb or less at joint(s) 1, 47, 69, 70, 72, 73, 74, 75, 76, 77, 78, 79, 80, 82, 83, 84, 85, 86, 87, 88, 89, 90, 68, 67, 66, 65, 64, 63, 62, 61, 60, 59, 57, 56, 55, 54, 53, 52, 51, 50, 49 except 91=266(LC 34), 48=266(LC 35)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=16ft; B=70ft; L=60ft; eave=7ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-7-13 to 6-7-13, Interior(1) 6-7-13 to 30-0-0, Exterior(2R) 30-0-0 to 36-0-0, Interior(1) 36-0-0 to 59-4-3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1
- 4) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) Roof design snow load has been reduced to account for slope.
- 6) Unbalanced snow loads have been considered for this design.
- 7) All plates are 3x4 MT20 unless otherwise indicated. 8) Gable requires continuous bottom chord bearing.
- 9) Gable studs spaced at 1-4-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.



July 7,2022



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



mbols





Development Services Lee's Summit, offsets are indicated.

Dimensions are in ft-in-sixtee Apply plates to both sides of and fully embed teeth.

O-1/16" Center plate on joint unless x, y Apply plates to both sides of truss Dimensions are in ft-in-sixteenths.

?

plates 0- 1/16" from outside For 4 x 2 orientation, locate edge of truss.

ω

တ

S

Ģ



connector plates. required direction of slots in This symbol indicates the

\* Plate location details available in MiTek 20/20 software or upon request.

### PLATE SIZE



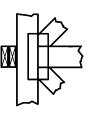
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

## LATERAL BRACING LOCATION



by text in the bracing section of the output. Use T or I bracing if indicated. ndicated by symbol shown and/or

### **BEARING**



Min size shown is for crushing only number where bearings occur. reaction section indicates joint (supports) occur. Icons vary but Indicates location where bearings

### Industry Standards:

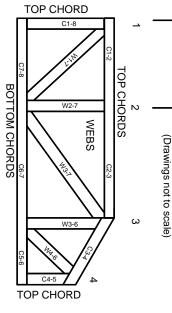
National Design Specification for Metal **Building Component Safety Information** Installing & Bracing of Metal Plate Connected Wood Trusses. Guide to Good Practice for Handling Design Standard for Bracing. Plate Connected Wood Truss Construction.

DSB-89: ANSI/TPI1:

## Numbering System

6-4-8

dimensions shown in ft-in-sixteenths



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

### PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988 ER-3907, ESR-2362, ESR-1397, ESR-3282

truss unless otherwise shown. Trusses are designed for wind loads in the plane of the

established by others. section 6.3 These truss designs rely on lumber values Lumber design values are in accordance with ANSI/TPI 1

© 2012 MiTek® All Rights Reserved



MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

## General Safety Notes

### Damage or Personal Injury Failure to Follow Could Cause Property

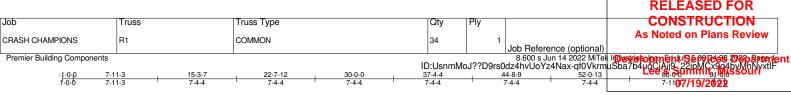
- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Ņ Truss bracing must be designed by an engineer. For bracing should be considered may require bracing, or alternative Tor I wide truss spacing, individual lateral braces themselves
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.

ω

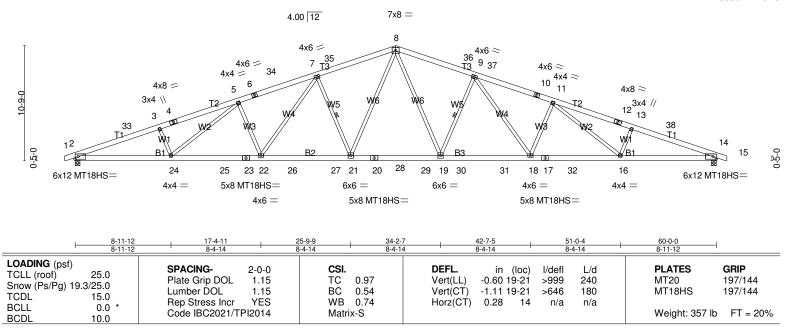
- Provide copies of this truss design to the building all other interested parties. designer, erection supervisor, property owner and
- Cut members to bear tightly against each other.
- joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1. Place plates on each face of truss at each
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

œ

- 9 Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber
- Camber is a non-structural consideration and is the camber for dead load deflection responsibility of truss fabricator. General practice is to
- 11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- Connections not shown are the responsibility of others
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable project engineer before use. environmental, health or performance risks. Consult with
- 19. Review all portions of this design (front, back, words is not sufficient. and pictures) before use. Reviewing pictures alone
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.



Scale = 1:107.8



LUMBER-

TOP CHORD 2x6 SPF No.2 BOT CHORD 2x6 SP 2400F 2.0E **WEBS** 2x4 SPF No.3

**BRACING-**

TOP CHORD **BOT CHORD** WEBS

Structural wood sheathing directly applied Rigid ceiling directly applied or 10-0-0 oc bracing. 1 Row at midpt

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 2=2712/0-5-8 (min. 0-2-12), 14=2712/0-5-8 (min. 0-2-11)

Max Horz 2=-123(LC 14)

Max Grav 2=3318(LC 28), 14=3318(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

2-33 = -8077/60, 3-33 = -7961/76, 3-4 = -7889/76, 4-5 = -7813/101, 5-6 = -7005/109, 6-34 = -6927/129, 7-34 = -6864/134, 7-35 = -5728/142, 8-35 = -5645/167, 8-36 = -5645/167, 9-36 = -5728/142, 9-37 = -6864/134, 10-37 = -6928/129, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7005/109, 10-11 = -7TOP CHORD

11-12=-7813/101, 12-13=-7890/76, 13-38=-7961/76, 14-38=-8078/60

**BOT CHORD** 2-24 = -27/7556, 24-25 = 0/6924, 23-25 = 0/6924, 22-23 = 0/6924, 22-26 = 0/5900, 26-27 = 0/5900, 21-27 = 0/5900, 21-28 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/47444, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/4744, 20-26 = 0/

20-28=0/4744, 20-29=0/4744, 19-29=0/4744, 19-30=0/5825, 30-31=0/5825, 18-31=0/5825, 17-18=0/6832, 17-32=0/6832,

16-32=0/6832. 14-16=-19/7464

3-24=-323/108, 5-24=0/751, 5-22=-831/95, 7-22=0/1319, 7-21=-1332/117, 8-21=-7/1739, 8-19=-7/1739, 9-19=-1332/117,

9-18=0/1319. 11-18=-831/95. 11-16=0/751. 13-16=-323/108

### NOTES-

**WEBS** 

- Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=16ft; B=70ft; L=60ft; eave=7ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-13 to 5-1-3, Interior(1) 5-1-3 to 30-0-0, Exterior(2R) 30-0-0 to 36-0-0, Interior(1) 36-0-0 to 60-10-13 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Roof design snow load has been reduced to account for slope.
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 19.3 psf on overhangs non-concurrent with other live loads.
- 7) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing
- 8) All plates are MT20 plates unless otherwise indicated.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

LOAD CASE(S) Standard

CONSTRUCTION Joh Truss Truss Type Qty As Noted on Plans Review CRASH CHAMPIONS R1GB GABLE 2 Job Reference (optional) 8.600 s Jun 14 2022 MiTel Ingeviel op meint Se 2024 1020 ID:UsnmMoJ??D9rs0dz4hvUoYz4Nax-FEieNtor WyiSYc Liter SocyWzCri Frymg Se 1 Premier Building Components 30-0-0 07/19/2022

Scale = 1:97.2

RELEASED FOR

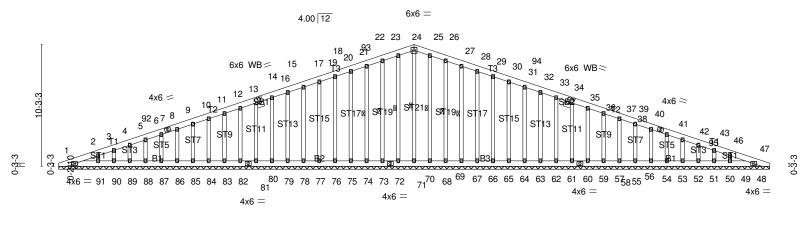


Plate Offsets (X,Y)-- [14:0-3-0,0-4-4], [34:0-3-0,0-4-4] LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defl L/d **PLATES GRIP** in (loc) TCLL (roof) Plate Grip DOL TC Vert(LL) 999 197/144 1.15 0.04 n/a MT20 n/a Snow (Ps/Pg) 19.3/25.0 BC 0.02 Lumber DOL Vert(CT) 999 1.15 n/a n/a TCDL 15.0 Rep Stress Incr WR Horz(CT) 47 YES 0.18 0.00 n/a n/a **BCLL** 0.0 \* Code IBC2021/TPI2014 Matrix-S Weight: 446 lb FT = 20%BCDL 10.0

LUMBER-

TOP CHORD 2x6 SPF No.2 BOT CHORD 2x6 SPF No.2 **OTHERS** 

SB1,SB2: 2x6 SPF No.2

2x4 SPF No.3 \*Except\*

**BRACING-**

TOP CHORD BOT CHORD WEBS

Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing. 24-69, 23-70, 22-72, 21-73, 25-68, 26-67, 1 Row at midpt

27-66

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** All bearings 60-0-0.

(lb) - Max Horz 1=-117(LC 14)

Max Grav All reactions 250 lb or less at joint(s) 1, 47, 69, 70, 72, 73, 74, 75, 76, 77, 78, 79, 80, 82, 83, 84, 85, 86, 87, 88, 89, 90, 68, 67, 66, 65, 64, 63, 62, 61, 60, 59, 57, 56, 55, 54, 53, 52, 51, 50, 49 except 91=266(LC 34), 48=266(LC 35)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=16ft; B=70ft; L=60ft; eave=7ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-7-13 to 6-7-13, Interior(1) 6-7-13 to 30-0-0, Exterior(2R) 30-0-0 to 36-0-0, Interior(1) 36-0-0 to 59-4-3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1
- 4) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) Roof design snow load has been reduced to account for slope.
- 6) Unbalanced snow loads have been considered for this design.
- 7) All plates are 3x4 MT20 unless otherwise indicated.
- 8) Gable requires continuous bottom chord bearing.
- 9) Gable studs spaced at 1-4-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

LOAD CASE(S) Standard



20300 W 207TH St Spring Hill, KS 66083 PREMIER BUILDING SUPPLY OF KANSAS CITY

DI 040 000 4

Phone: 913.686.1812 www.premierbuildingsupply.com

Rose Design Group

Crash Champions

451 SE Oldham Parkway, Lee Summit, MO

Tom Lambertz

Designer:tld

TRUSS PLACEMENT DIAGRAM

ROOF

ALL ROOF TRUSS DIMENSIONS ARE FROM OUTSIDE EDGE OF STUD (u.n.o.)
SET ROOF TRUSSES FLUSH WITH FRAMING (u.n.o.)

WARNING: Trusses must be handled with care to prevent damage and injury.

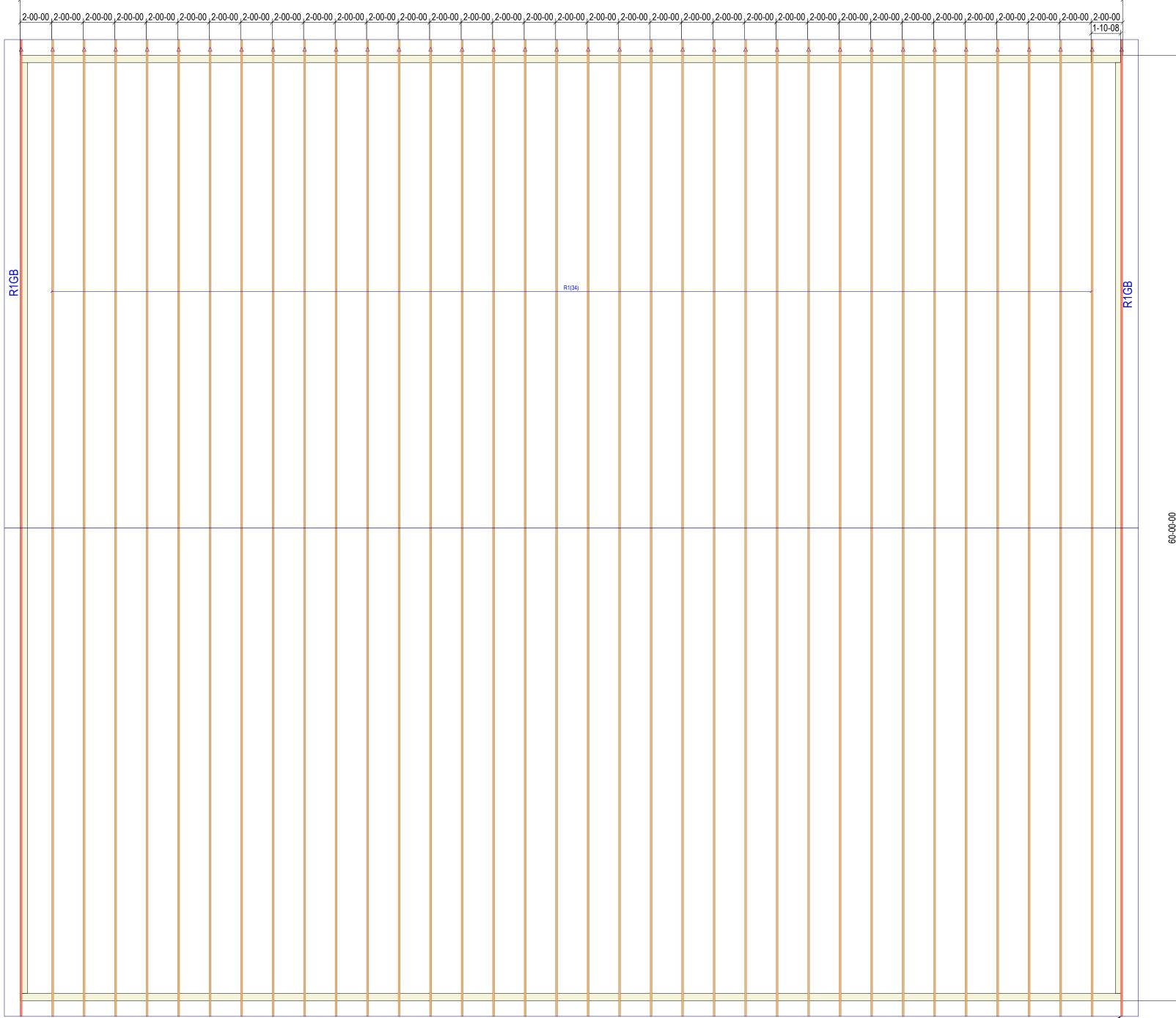
This truss placement diagram is to be used only as an installation aid; it is not a structural diagram. These trusses are designed as individual building components to be incorporated into the building design at the the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing.

Professional advice should be sought regarding handling, installation, temporary and permanent bracing before erecting trusses. Temporary and permanent bracing is required during installation of trusses to prevent possible collapse.

For general guidance regarding bracing, consult "BCSI-06" available jointly from WTCA & TPI.

Premier Building Supply must be notified of any issues requiring a back charge prior to any work being done. Premier Building Supply reserves the right to use it's service staff in lieu of being back charged.

70-00-00



Drop Gable 2x6 out lookers both ends

CONSTRUCTION

**As Noted on Plans Review** 

Development Services Departme Lee's Summit, Missouri 07/19/2022