evelopment Services Departmer Lee's Summit, Missouri 07/08/2025

ASSOCIATED PLASTIC SURGEONS

I-470 BUSINESS & TECHNOLOGY CENTER NE McBAIN DRIVE LEE'S SUMMIT, MISSOURI

BUILDING SHELL PERMIT SUBMITTAL: JANUARY 28, 2025





ARCHITECT
DEV INC
8807 MONROVIA STREET
LENEXA, KANSAS 66215
PH: 913-322-8882

STAND STRUCTURAL ENGINEER

STAND STRUCTURAL ENGINEERING INC

8234 ROBINSON STREET

OVERLAND PARK, KANSAS 66204
PH: 913-214-2169

MEP ENGINEER

ARCHITECTURAL ENGINEERING CONSORTIUM, INC

10511 AUGUSTA DRIVE

KANSAS CITY, KANSAS 66109

PH: 816-916-4675

| SHEET Number | SHEET NAME | CURRENT REVISION |
|----------------------|-----------------------------|---------------------|
| II. ARCHITECTUR | E | |
| A00 | COVER | |
| A0.0 | PROJECT INFORMATION | 3 |
| A0.1 | WALL TYPES | |
| A0.2 | ABBREVIATIONS & INDICATIONS | |
| A1.0 | FLOOR PLAN | 3 |
| A1.1 | ROOF PLAN | 3 |
| A2.0 | BUILDING ELEVATIONS | 3 |
| A2.1 | BUILDING ELEVATIONS | 3 |
| A3.0 | BUILDING SECTIONS | 3 |
| A3.1 | WALL SECTIONS | |
| A3.2 | WALL SECTIONS | |
| A3.3 | WALL SECTIONS | 3 |
| A3.4 | WALL SECTIONS | 3 |
| A3.5 | WALL SECTIONS | 3 |
| A5.0 | DETAILS | |
| A5.1 | DETAILS | 3 |
| A5.2 | DETAILS | 3 |
| A5.3 | DETAILS | |
| A6.0 | DOOR & HARDWARE SCHEDULE | 3 |
| A6.1 | STOREFRONT SCHEDULE | 3 |
| 20 III. STRUCTURE | | |
| S001 | STRUCTURAL GENERAL NOTES | |
| S002 | STRUCTURAL GENERAL NOTES | |
| S003 | STRUCTURAL LOADING - SNOW | |
| S004 | STRUCTURAL LOADING - WIND | |
| S030 | TYPICAL DETAILS - CONCRETE | |

| SHEET NUMBER | SHEET NAME | CURREN' REVISIO |
|---|---|--------------------|
| S050 | TYPICAL DETAILS - STEEL | |
| S051 | TYPICAL DETAILS - STEEL | |
| S054 | TYPICAL DETAILS - CFS | |
| S100 | FOUNDATION PLAN | |
| S101 | ROOF FRAMING PLAN | |
| S300 | BRACE ELEVATIONS | |
| S500 | FOUNDATION SECTIONS | |
| S501 | ROOF FRAMING SECTIONS | |
| S502 | ROOF FRAMING SECTIONS | |
| S503 | ROOF FRAMING SECTIONS | |
| CEO4 | ROOF FRAMING SECTIONS | |
| S504 | 11001 110 0001010 | |
| S505 17 | ROOF FRAMING SECTIONS | |
| S505 | | |
| S505 17 IV. MEP | ROOF FRAMING SECTIONS | |
| S505 17 IV. MEP PE200S | PLUMBING/ELECTRICAL UNDERFLOOR PLAN | |
| S505 17 IV. MEP PE200S P200S | PLUMBING/ELECTRICAL UNDERFLOOR PLAN PLUMBING FLOOR PLAN | |
| S505 17 IV. MEP PE200S P200S MP200 | PLUMBING/ELECTRICAL UNDERFLOOR PLAN PLUMBING FLOOR PLAN HVAC/PLUMBING ROOF PLAN | |
| S505 17 IV. MEP PE200S P200S MP200 MP300S | PLUMBING/ELECTRICAL UNDERFLOOR PLAN PLUMBING FLOOR PLAN HVAC/PLUMBING ROOF PLAN PLUMBING/MECHANICAL SPECIFICATIONS | |
| S505 17 IV. MEP PE200S P200S MP200 MP300S E1.0 | PLUMBING/ELECTRICAL UNDERFLOOR PLAN PLUMBING FLOOR PLAN HVAC/PLUMBING ROOF PLAN PLUMBING/MECHANICAL SPECIFICATIONS PHOTOMETRIC SITE PLAN | |
| S505 17 IV. MEP PE200S P200S MP200 MP300S E1.0 E1.1 | PLUMBING/ELECTRICAL UNDERFLOOR PLAN PLUMBING FLOOR PLAN HVAC/PLUMBING ROOF PLAN PLUMBING/MECHANICAL SPECIFICATIONS PHOTOMETRIC SITE PLAN ELECTRICAL SITE PLAN | |
| S505 17 IV. MEP PE200S P200S MP200 MP300S E1.0 E1.1 E2.0S | PLUMBING/ELECTRICAL UNDERFLOOR PLAN PLUMBING FLOOR PLAN HVAC/PLUMBING ROOF PLAN PLUMBING/MECHANICAL SPECIFICATIONS PHOTOMETRIC SITE PLAN ELECTRICAL SITE PLAN POWER FLOOR PLAN | |
| S505 17 IV. MEP PE200S P200S MP200 MP300S E1.0 E1.1 E2.0S E2.1S | PLUMBING/ELECTRICAL UNDERFLOOR PLAN PLUMBING FLOOR PLAN HVAC/PLUMBING ROOF PLAN PLUMBING/MECHANICAL SPECIFICATIONS PHOTOMETRIC SITE PLAN ELECTRICAL SITE PLAN POWER FLOOR PLAN LIGHTING FLOOR PLAN | |
| S505 17 IV. MEP PE200S P200S MP200 MP300S E1.0 E1.1 E2.0S E2.1S E2.2S | PLUMBING/ELECTRICAL UNDERFLOOR PLAN PLUMBING FLOOR PLAN HVAC/PLUMBING ROOF PLAN PLUMBING/MECHANICAL SPECIFICATIONS PHOTOMETRIC SITE PLAN ELECTRICAL SITE PLAN POWER FLOOR PLAN LIGHTING FLOOR PLAN SYSTEMS POWER FLOOR PLAN | |



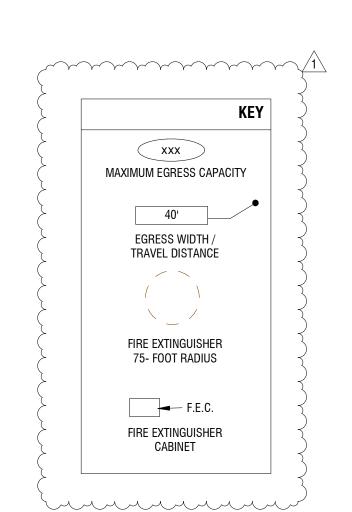
CODE INFORMATION

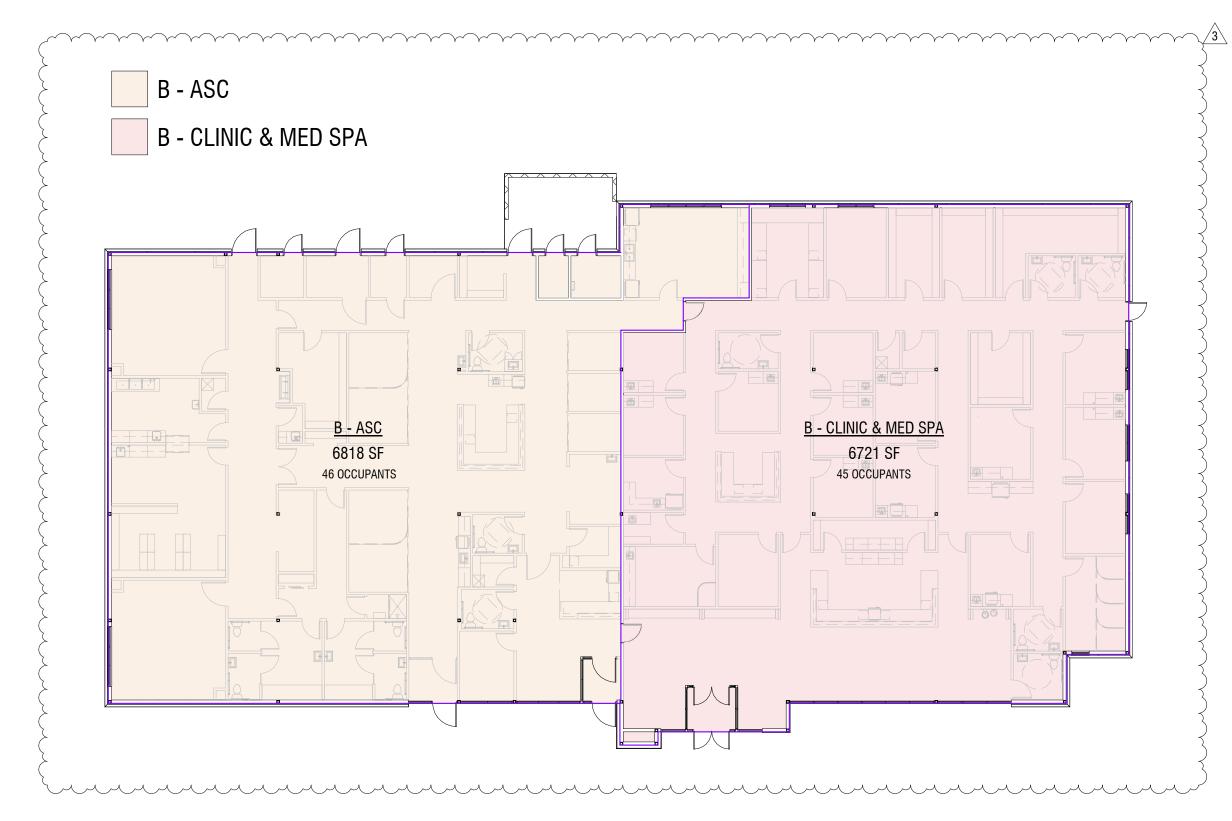
OCCUPANCY USE GROUP: B
TYPE OF CONSTRUCTION: V-B

| TYPE OF CONSTRUCTION: V-B | | | | | |
|--|----------------------------------|----------------|----------------|--|--|
| | REQUIRED/ALLOWED | PR | OVIDED | | |
| SQUARE FOOTAGE | | | | | |
| PER STORY (IBC 506.2) | 36,000 SQ.FT. | 13,538 SQ.FT. | | | |
| TOTAL BUILDING AREA | N/A | 13,50 | 38 SQ.FT. | | |
| NUMBER OF STORY (IBC 504.4) | 3 STORIES | 1 : | STORY | | |
| BUILDING HEIGHT (IBC 504.3) | 60 FT. | 2 | 9 FT. | | |
| BUILDING ELEMENT FIRE RESISTANCE R | ATING | | | | |
| PRIMARY STRUCTURAL FRAME | 0 HR | | O HR | | |
| BEARING WALL - EXTERIOR | 0 HR | | O HR | | |
| BEARING WALL - INTERIOR | 0 HR | (| 0 HR | | |
| NONBEARING WALL AND PARTITIONS - EXTERIOR (IBC 602) | 0 HR (10 <x<30; x="">30)</x<30;> | | O HR | | |
| NONBEARING WALL AND PARTITIONS - INTERIOR | 0 | | 0 | | |
| FLOOR CONSTRUCTION | 0 HR | 0 HR | | | |
| ROOF CONSTRUCTION | 0 HR | 0 HR | | | |
| FIRE PROTECTION AND RESISTANCE REC | UIREMENTS | · | | | |
| FIRE BARRIERS - STAIR ENCLOSURES | N/A | N/A | | | |
| FIRE PARTITIONS - DEMISING WALL | 1HR | | 1HR | | |
| FIRE PARTITIONS - HOR. ASSEMBLIES | N/A | N/A | | | |
| FIRE PARTITIONS - CORRIDOR WALLS | N/A | N/A | | | |
| FIRE PROTECTION SYSTEM | NFPA 13 | NF | NFPA 13 | | |
| FIRE ALARM AND DETECTION (IBC 907) | FIRE & SMOKE ALARM | FIRE & SI | MOKE ALARM | | |
| | | | | | |
| EGRESS | | · | | | |
| OCCUPANT LOAD | TYPE | SF/LOAD FACTOR | OCCUPANCY LOAD | | |
| | ASC (BUSINESS) | 6,818/150 | 46 | | |
| | CLINIC & MED SPA (BUSINESS) | 6,721/150 | 45 | | |
| | TOTAL | | 91 | | |
| EGRESS WIDTH - STAIRS (IBC 1005.3) | N/A | | N/A | | |
| EGRESS WIDTH - OTHER (IBC 1005.3) | 91 x 0.15" = 13.65" MIN. | | 300" | | |
| NUMBER OF EXITS - ASC | 1 | | 4 | | |
| NUMBER OF EXITS - CLINIC & MED SPA | 1 | | 2 | | |
| MAX. TRAVEL DISTANCE TO EXIT | 250' MAX. (PER IBC 1016.2) | 1 | 41'-2" | | |
| ROOF COVER CLASSIFICATION | В | | В | | |

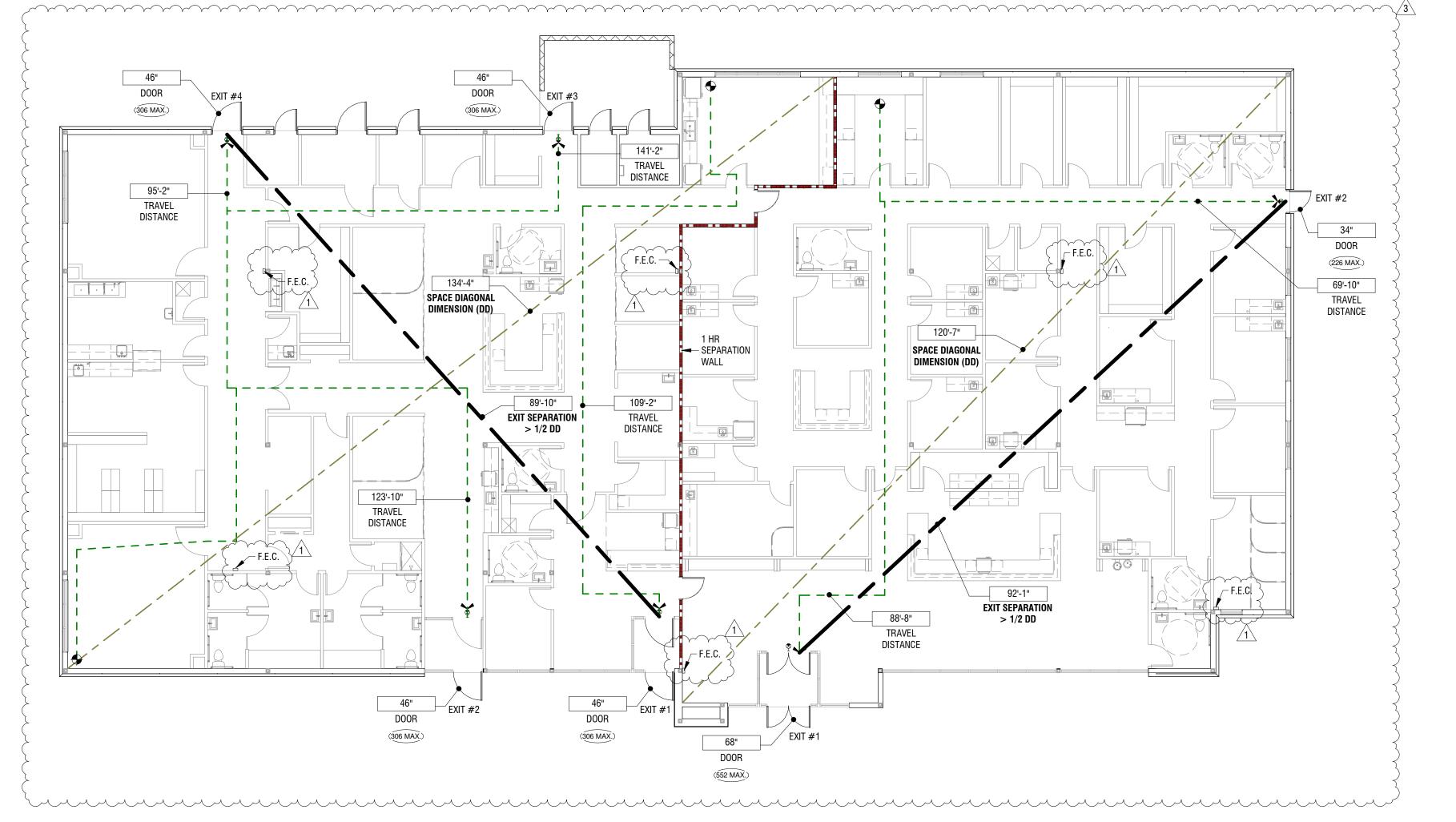
APPLICABLE BUILDING CODES

- 2018 INTERNATIONAL BUILDING CODE
- 2018 INTERNATIONAL PLUMBING CODE 2018 INTERNATIONAL MECHANICAL CODE
- 2018 INTERNATIONAL FUEL GAS CODE
- 2018 INTERNATIONAL FIRE CODE 2017 NATIONAL ELECTRICAL CODE
- ANSI A117.1-2009 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES











CONSTRUCTION Lee's Summit, Missouri



Dev Anand President & CEO

Kevin Campbell

Senior Architect

8807 Monrovia Street Lenexa, Kansas 66215

Phone: 913.322.8882 Fax: 913.322.8886 Email: kevin@dev-inc.com

THIS DRAWING has been prepared by the Architect, or prepared under his direct supervision as an instrument of service and is intended for use only on this project. All Drawings, Specifications, ideas and designs, including the overall layout, form, arrangement, and composition of spaces and elements portrayed, constitute the original, unpublished Work of the Architect. Any reproduction, use, or disclosure of the information contained herein without the written consent of the Architect is strictly prohibited.

COMPLY WITH all laws, codes, ordinances and regulations with authorities

having jurisdiction and with requirements of the Landlord, if applicable. Do not start Work until all permits and required approvals are obtained.

SURGEONS

STIC ASSOC

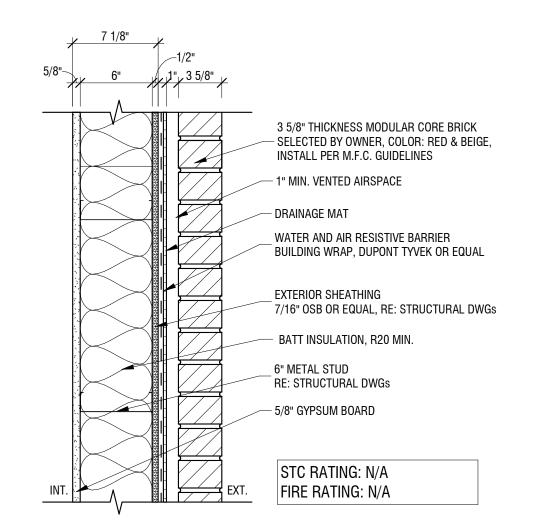


PROJECT NO. 231206 DRAWING ISSUANCE: JAN 28, 2025 03/07/2025 06/20/2025

SHEET NUMBER

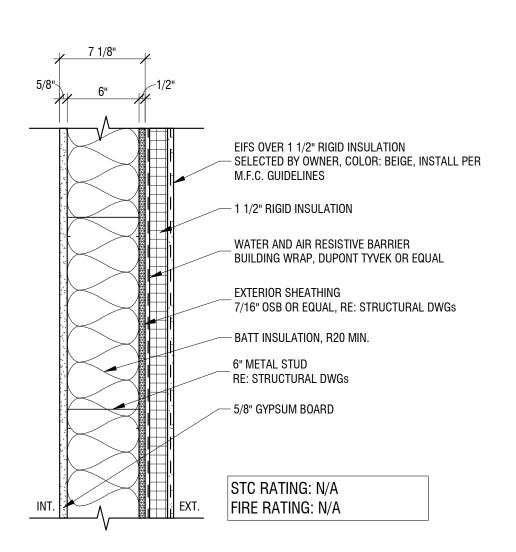
PROJECT INFORMATION

WALL TYPES:



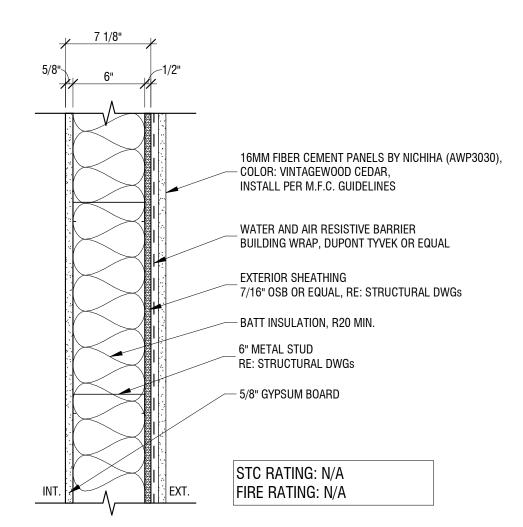
WALL TYPE '1A' -EXTERIOR WALL-BRICK

1 1/2" = 1'-0"



WALL TYPE '1B' -EXTERIOR WALL-EIFS

1 1/2" = 1'-0"

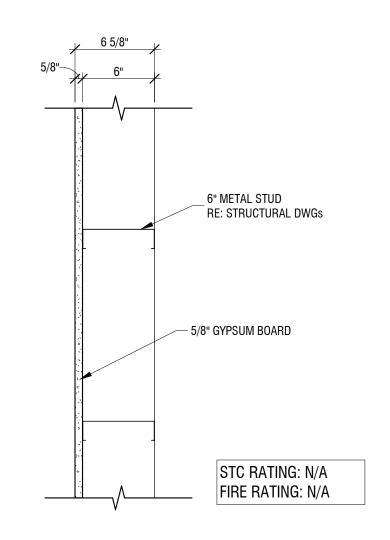


WALL TYPE '1C' -EXTERIOR WALL-FIBER 3 CEMENT PANEL
1 1/2" = 1'-0"

- 5/8" GYPSUM BOARD 3 5/8" METAL STUD RE: STRUCTURAL DWGs ── 5/8" GYPSUM BOARD STC RATING: N/A FIRE RATING: N/A

WALL TYPE '2' -TYP. PARTITION WALL

1 1/2" = 1'-0"



WALL TYPE '3' -6" STUD WALL-1 SIDE

ASSOCIAT

CONSTRUCTION

Lee's Summit, Missouri 07/08/2025

Dev Anand President & CEO

Kevin Campbell

Senior Architect

8807 Monrovia Street Lenexa, Kansas 66215

Phone: 913.322.8882 Fax: 913.322.8886 Email: kevin@dev-inc.com

THIS DRAWING has been prepared by the Architect, or prepared under his direct supervision as an instrument of service and is intended for use only on this project. All Drawings, Specifications, ideas and designs, including the overall layout, form, arrangement, and composition of spaces and elements portrayed, constitute the original, unpublished Work of the Architect. Any reproduction, use, or disclosure of the information contained herein without the written consent of the Architect is strictly prohibited.

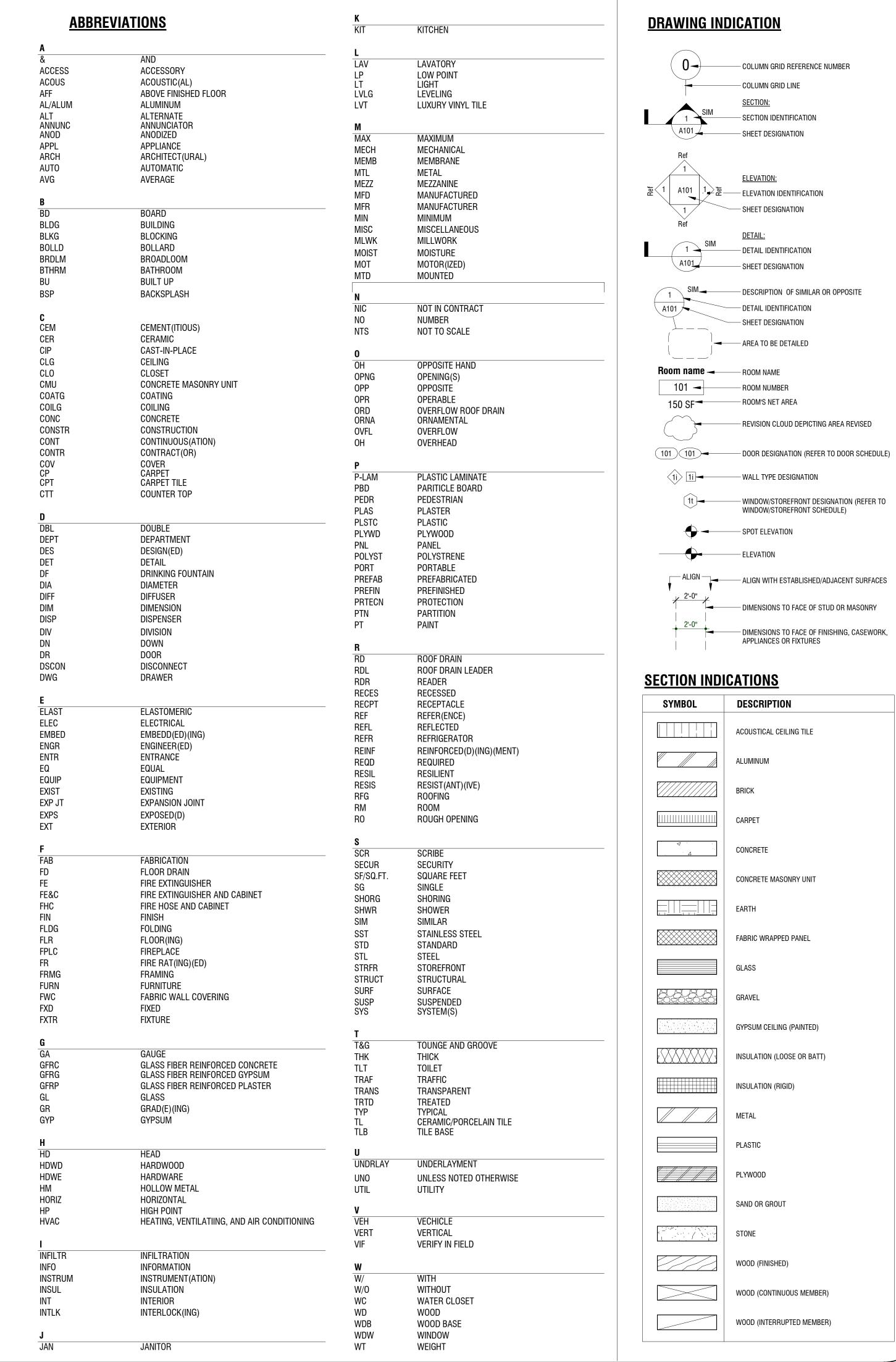
COMPLY WITH all laws, codes, ordinances and regulations with authorities having jurisdiction and with requirements of the Landlord, if applicable. Do not start Work until all permits and required approvals are obtained.

SURGEONS

PROJECT NO. 231206 DRAWING ISSUANCE: JAN 28, 2025 REVISION

SHEET NUMBER





RELEASED FOR As Noted on Plans Review Lee's Summit, Missou 07/08/2025

Dev Anand President & CEO

Senior Architect

Kevin Campbell

8807 Monrovia Street Lenexa, Kansas 66215

Phone: 913.322.8882 Fax: 913.322.8886 Email: kevin@dev-inc.com

THIS DRAWING has been prepared by the Architect, or prepared under his direct supervision as an instrument of service and is intended for use only on this project. All Drawings, Specifications, ideas and designs, including the overall layout, form, arrangement, and composition of spaces and elements portrayed, constitute the original, unpublished Work of the Architect. Any reproduction, use, or disclosure of the information contained herein without the written consent of the Architect is strictly prohibited.

COMPLY WITH all laws, codes, ordinances and regulations with authorities having jurisdiction and with requirements of the Landlord, if applicable.

Do not start Work until all permits and required approvals are obtained.

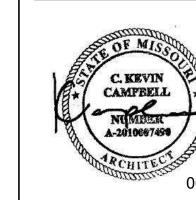
URGEONS

S

S

SSOURI

I-470 BUSINESS & T NE McBAIN DRIVE LEE'S SUMMIT, MIS



S

S

PROJECT NO. 231206 DRAWING ISSUANCE: JAN 28, 2025 REVISION

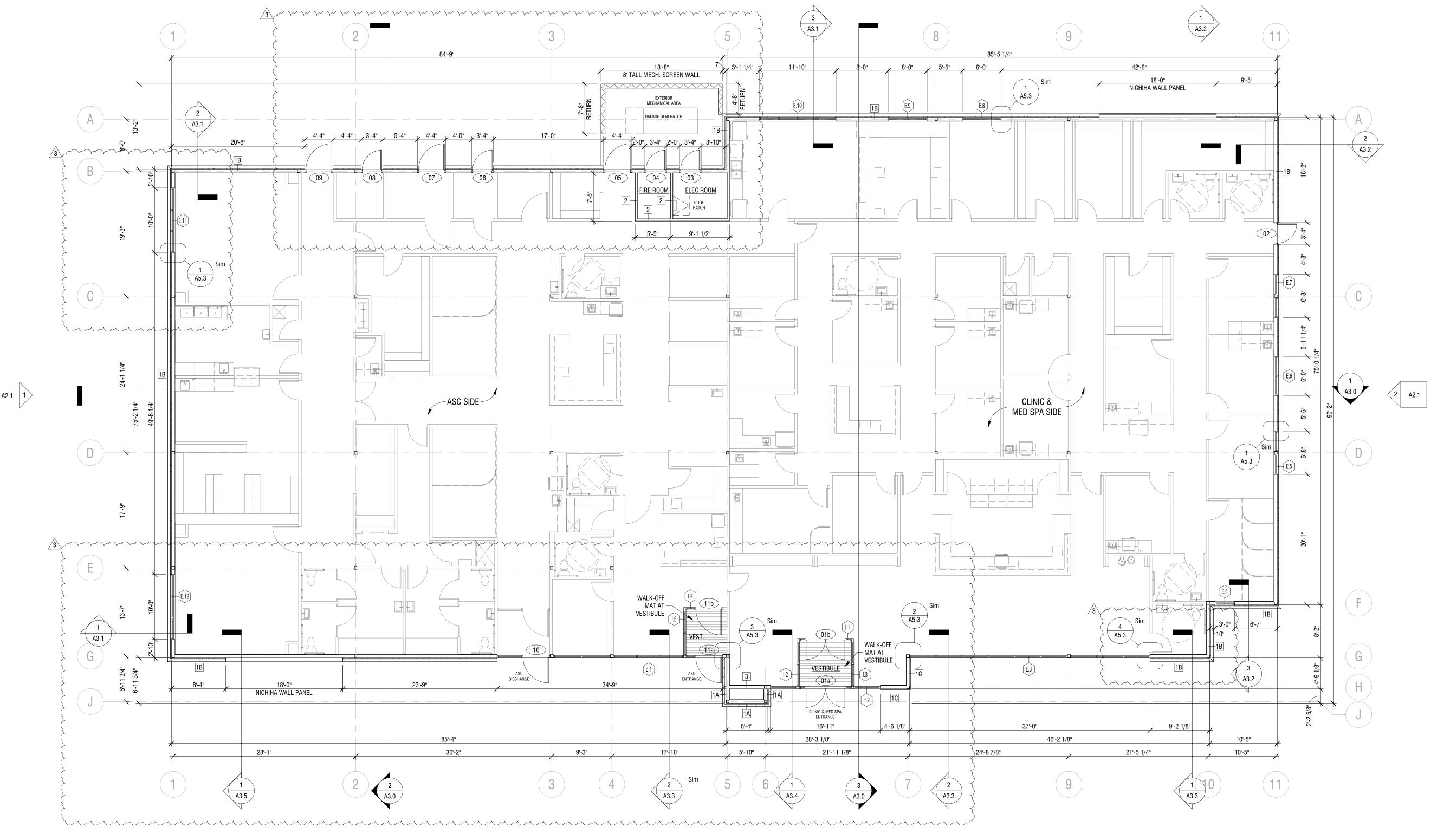
SHEET NUMBER

ABBREVIATIONS & INDICATIONS

GENERAL NOTES

- ALL PLAN DIMENSIONS GIVEN ARE TO FACE OF STUD OR MASONRY, U.N.O. SEE ENLARGED A4 SHEETS FOR ALL WALL TAGS NOT SHOWN ON OVERALL PLANS. REFER TO CALLOUT
- FOR SPECIFIC PLAN ENLARGEMENT
- SEE ELEVATIONS FOR ALL WINDOW TAGS NOT SHOWN ON OVERALL PLANS MAINTAIN MIN CEILING HEIGHT OF 6'-8" ABOVE STAIR NOSINGS AT ALL STAIRWAYS
- COORDINATE AND PROVIDE BLOCKING FOR MILLWORK AND ITEMS ATTACHED OR MOUNTED TO WALLS
- AND CEILINGS REFER TO SPECIFICATIONS BOOK FOR SPECIFIC REQUIREMENTS AND CONSTRUCTION REQUIREMENTS





WALL TYPES

COLD-FORMED STEEL FRAMING

1A EXTERIOR WALL - 6" METAL STUD - BRICK SEE DETAIL 1/A0.1

1B EXTERIOR WALL - 6" METAL STUD - EIFS

SEE DETAIL 2/A0.1 1C EXTERIOR WALL - 6" METAL STUD - FIBER CEMENT PANEL

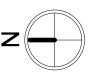
SEE DETAIL 3/A0.1

2 INTERIOR WALL - 3 5/8" METAL STUD - TYPICAL SEE DETAIL 4/A0.1

3 INTERIOR WALL - 6" METAL STUD - 1 SIDE FINISH SEE DETAIL 5/A0.1









President & CEO

Kevin Campbell

Senior Architect

8807 Monrovia Street Lenexa, Kansas 66215

Phone: 913.322.8882 Fax: 913.322.8886 Email: kevin@dev-inc.com

THIS DRAWING has been prepared by the Architect, or prepared under his direct supervision as an instrument of service and is intended for use only on this project. All Drawings, Specifications, ideas and designs, including the overall layout, form, arrangement, and composition of spaces and elements portrayed, constitute the original, unpublished Work of the Architect. Any reproduction, use, or disclosure of the information contained herein without the written consent of the Architect is strictly prohibited.

COMPLY WITH all laws, codes, ordinances and regulations with authorities having jurisdiction and with requirements of the Landlord, if applicable.

Do not start Work until all permits and required approvals are obtained.

SURGEONS

ST

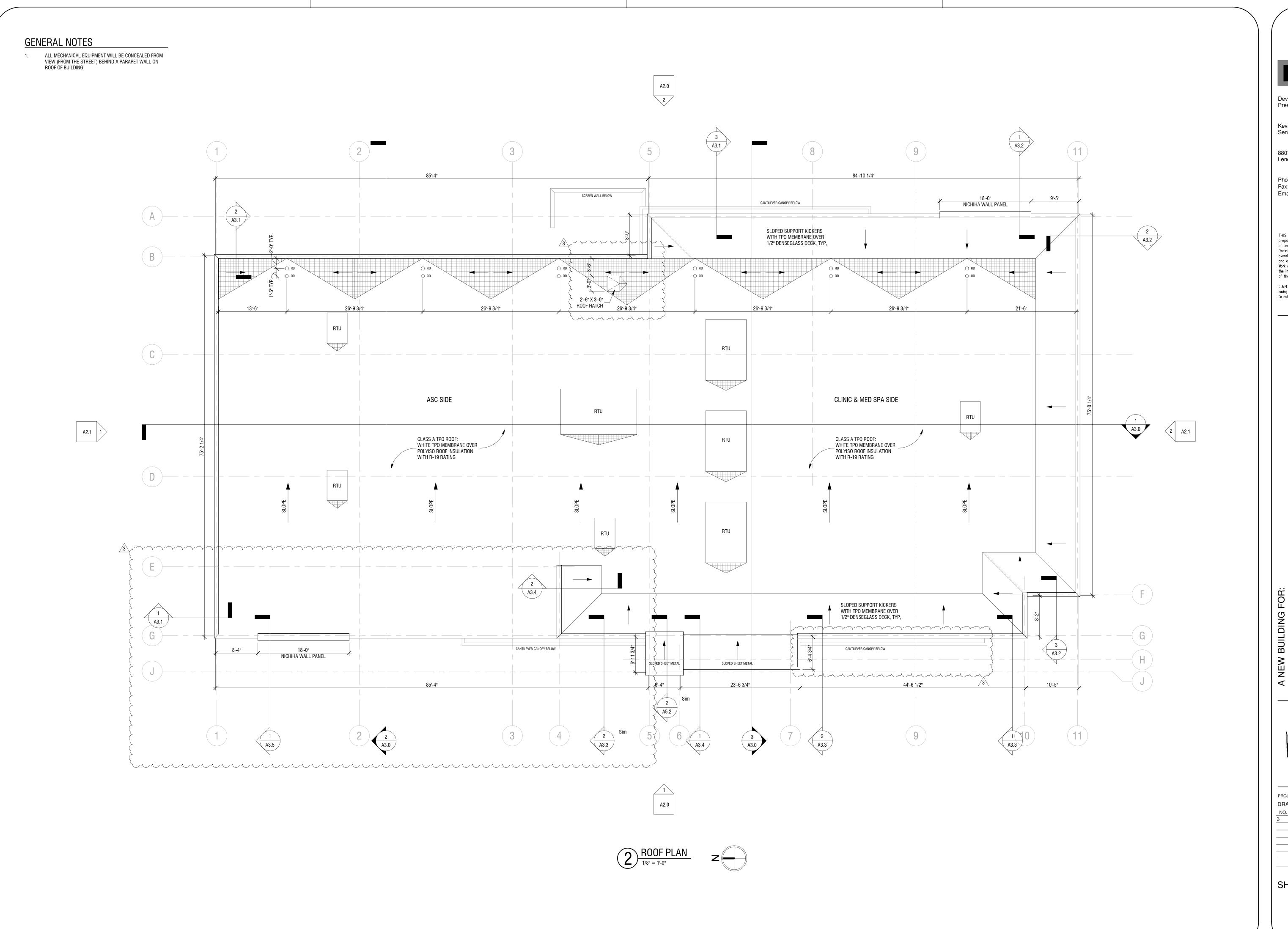
ASS



PROJECT NO. 231206 DRAWING ISSUANCE: JAN 28, 2025 REVISION 06/20/2025

SHEET NUMBER

FLOOR PLAN



CONSTRUCTION Lee's Summit, Missouri 07/08/2025

Dev Anand President & CEO

Kevin Campbell

Senior Architect

8807 Monrovia Street

Lenexa, Kansas 66215

Phone: 913.322.8882 Fax: 913.322.8886 Email: kevin@dev-inc.com

THIS DRAWING has been prepared by the Architect, or prepared under his direct supervision as an instrument of service and is intended for use only on this project. All Drawings, Specifications, ideas and designs, including the overall layout, form, arrangement, and composition of spaces and elements portrayed, constitute the original, unpublished Work of the Architect. Any reproduction, use, or disclosure of the information contained herein without the written consent of the Architect is strictly prohibited.

COMPLY WITH all laws, codes, ordinances and regulations with authorities having jurisdiction and with requirements of the Landlord, if applicable. Do not start Work until all permits and required approvals are obtained.

SURGEONS STIC

ASSOCIAT

PROJECT NO. 231206 DRAWING ISSUANCE: JAN 28, 2025

SHEET NUMBER

ROOF PLAN

GENERAL NOTES

- ALL MECHANICAL EQUIPMENT WILL BE CONCEALED FROM VIEW (FROM THE STREET) BEHIND A PARAPET WALL ON ROOF OF BUILDING
- ALL COMMERICAL SIGNAGE WILL BE APPROVED BY SEPARATE APPLICATION AND REPLACE SIGNS SHOWN WILL GENERAL LOCATION WHERE SIGNS WILL BE LOCATED

BRICK RED BRICK

BRICK BEIGE BRICK



EIFS SYSTEM

BEIGE

EXTERIOR SCHEDULE

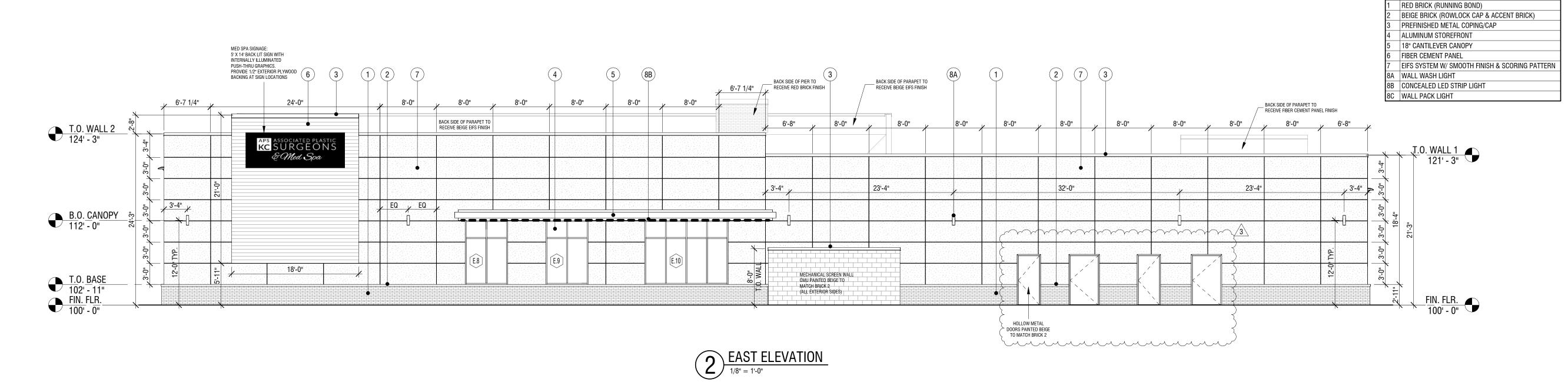
| NO. | MATERIAL/ITEMS | DESCRIPTION/MANUFACTURER | COLOR/FINISH | | | | | | |
|-----|---------------------|--------------------------------|--|--|--|--|--|--|--|
| 1 | BRICK | TO BE SELECTED BY OWNER | COLOR: RED BRICK (RUNNING BOND) | | | | | | |
| 2 | BRICK | TO BE SELECTED BY OWNER | COLOR: BEIGE BRICK (ROWLOCK BASE CAP & ACCENT BRICK) | | | | | | |
| 3 | PREFINISHED METAL | COPING/CAP FLASHING | COLOR: BLACK | | | | | | |
| 4 | ALUMINUM STOREFRONT | W/ 1" INSULATED GLASS | COLOR (FRAME): BLACK | | | | | | |
| 5 | PREFINISHED METAL | 18" DEEP CANTILEVER CANOPY | COLOR: BLACK | | | | | | |
| 6 | FIBER CEMENT PANEL | NICHIHA FIBER CEMENT | COLOR: VINTAGE WOOD CEDAR | | | | | | |
| 7 | EIFS SYSTEM | TO BE SELECTED BY OWNER | COLOR: BEIGE WITH SMOOTH FINISH & SCORING PATTERN | | | | | | |
| 8 | BUILDING LIGHTING | RE: EXTERIOR LIGHTING SCHEDULE | | | | | | | |

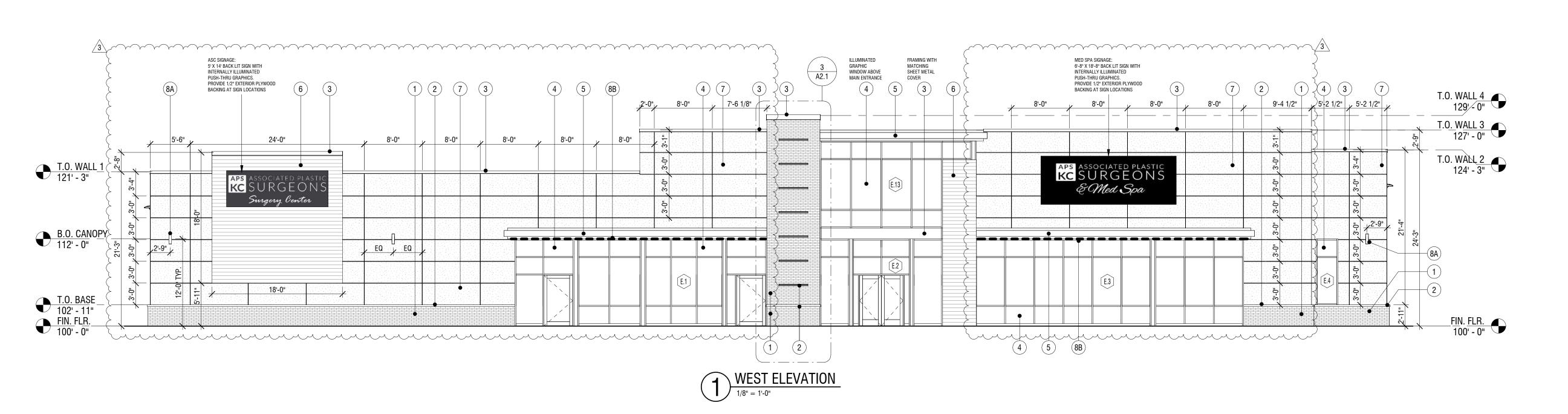
EXTERIOR LIGHTING SCHEDULE

| LATERION EIGHTING CONEDULE | | | | | | | | | |
|----------------------------|-----------|--|---|--|--|--|--|--|--|
| NO. | ТҮРЕ | DESCRIPTION/MANUFACTURER | REMARKS | | | | | | |
| 8A | UP/DOWN | LED, BLACK FINISH SYRIOS PRO SQP402 BY LUMINIS OR EQUAL | WALL WASH AT WEST & EAST ELEVATIONS WITH HIGH VISIBILITY | | | | | | |
| 8B | LINEAR | CONTINUOUS BUILT-IN, CONCEALED LED STRIP | HORIZONTAL HIGHLIGHT AT WEST & EAST ELEVATIONS WITH HIGH VISIBILITY | | | | | | |
| 8C | WALL PACK | LED, BLACK FINISH D-SERIES SIZE 1 LED WALL LUMINAIRE DSXW1LED BY LITHONIA OR EQUAL | GENERAL ILLUMINATION AT NORTH & SOUTH ELEVATIONS | | | | | | |

ELEVATION KEYNOTES

NOTES





Lee's Summit, Missouri

CONSTRUCTION

Dev Anand President & CEO

Kevin Campbell Senior Architect

8807 Monrovia Street Lenexa, Kansas 66215

Phone: 913.322.8882 Fax: 913.322.8886

Email: kevin@dev-inc.com

THIS DRAWING has been prepared by the Architect, or prepared under his direct supervision as an instrument of service and is intended for use only on this project. All Drawings, Specifications, ideas and designs, including the overall layout, form, arrangement, and composition of spaces and elements portrayed, constitute the original, unpublished Work of the Architect. Any reproduction, use, or disclosure of

of the Architect is strictly prohibited.

the information contained herein without the written consent

COMPLY WITH all laws, codes, ordinances and regulations with authorities having jurisdiction and with requirements of the Landlord, if applicable. Do not start Work until all permits and required approvals are obtained.

> SURGEONS STIC

M ASSOC

I-470 BUSINESS & TECHNONE NE McBAIN DRIVE LEE'S SUMMIT, MISSOURI

PROJECT NO. 231206 DRAWING ISSUANCE: JAN 28, 2025 06/20/2025

SHEET NUMBER

BUILDING ELEVATIONS

GENERAL NOTES

- ALL MECHANICAL EQUIPMENT WILL BE CONCEALED FROM VIEW (FROM THE STREET) BEHIND A PARAPET WALL ON ROOF OF BUILDING
- ALL COMMERICAL SIGNAGE WILL BE APPROVED BY SEPARATE APPLICATION AND REPLACE SIGNS SHOWN WILL GENERAL LOCATION WHERE SIGNS WILL BE LOCATED

T.O. WALL 4 129' - 0"

ACCENT BRICK (BEIGE COLOR) — PROTRUDE 1/2" FROM RED BRICK

RUNNING BOND (RED BRICK) —

ROWLOCK CAP (BEIGE BRICK) -

T.O. BASE 102' - 11"

FIN. FLR. 100' - 0"

BRICK RED BRICK

BRICK BEIGE BRICK



EIFS SYSTEM BEIGE

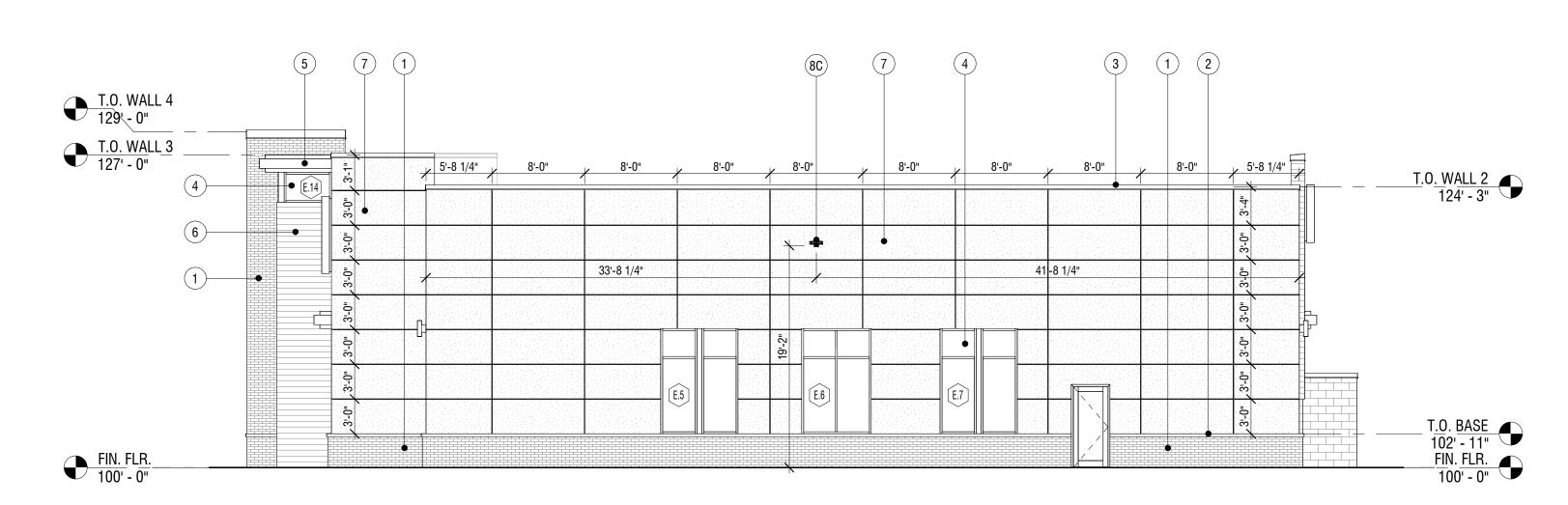
EXTERIOR SCHEDULE

| NO. | MATERIAL/ITEMS | DESCRIPTION/MANUFACTURER | COLOR/FINISH |
|-----|---------------------|--------------------------------|--|
| 1 | BRICK | TO BE SELECTED BY OWNER | COLOR: RED BRICK (RUNNING BOND) |
| 2 | BRICK | TO BE SELECTED BY OWNER | COLOR: BEIGE BRICK (ROWLOCK BASE CAP & ACCENT BRICK) |
| 3 | PREFINISHED METAL | COPING/CAP FLASHING | COLOR: BLACK |
| 4 | ALUMINUM STOREFRONT | W/ 1" INSULATED GLASS | COLOR (FRAME): BLACK |
| 5 | PREFINISHED METAL | 18" DEEP CANTILEVER CANOPY | COLOR: BLACK |
| 6 | FIBER CEMENT PANEL | NICHIHA FIBER CEMENT | COLOR: VINTAGE WOOD CEDAR |
| 7 | EIFS SYSTEM | TO BE SELECTED BY OWNER | COLOR: BEIGE WITH SMOOTH FINISH & SCORING PATTERN |
| 8 | BUILDING LIGHTING | RE: EXTERIOR LIGHTING SCHEDULE | |

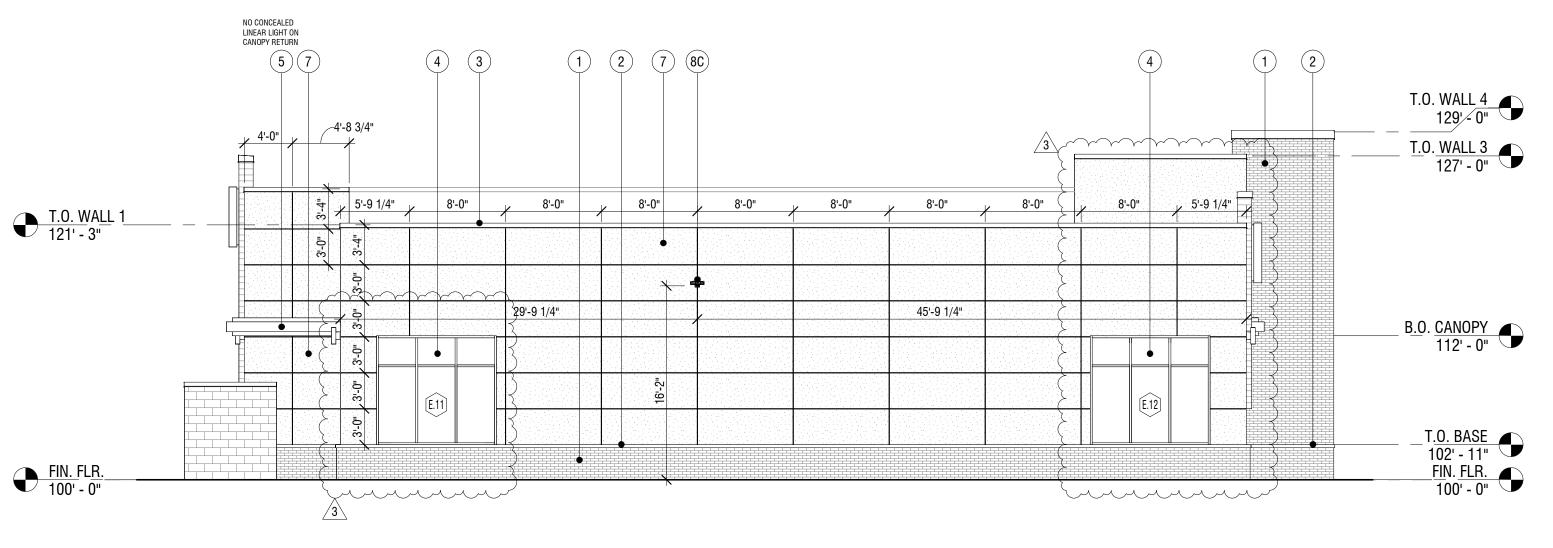
EXTERIOR LIGHTING SCHEDULE

| LATERIOR EIGITTING SUTILDULE | | | | | | | | |
|------------------------------|-----------|--|---|--|--|--|--|--|
| NO. | ТҮРЕ | DESCRIPTION/MANUFACTURER | REMARKS | | | | | |
| 8A | UP/DOWN | LED, BLACK FINISH SYRIOS PRO SQP402 BY LUMINIS OR EQUAL | WALL WASH AT WEST & EAST ELEVATIONS WITH HIGH VISIBILITY | | | | | |
| 8B | LINEAR | CONTINUOUS BUILT-IN, CONCEALED LED STRIP | HORIZONTAL HIGHLIGHT AT WEST & EAST ELEVATIONS WITH HIGH VISIBILITY | | | | | |
| 8C | WALL PACK | LED, BLACK FINISH D-SERIES SIZE 1 LED WALL LUMINAIRE DSXW1LED BY LITHONIA OR EQUAL | GENERAL ILLUMINATION AT NORTH & SOUTH ELEVATIONS | | | | | |

| | ELEVATION KEYNOTES |
|-----|--|
| NO. | NOTES |
| | |
| 1 | RED BRICK (RUNNING BOND) |
| 2 | BEIGE BRICK (ROWLOCK CAP & ACCENT BRICK) |
| 3 | PREFINISHED METAL COPING/CAP |
| 4 | ALUMINUM STOREFRONT |
| 5 | 18" CANTILEVER CANOPY |
| 6 | FIBER CEMENT PANEL |
| 7 | EIFS SYSTEM W/ SMOOTH FINISH & SCORING PATTERN |
| 8A | WALL WASH LIGHT |
| 8B | CONCEALED LED STRIP LIGHT |
| 8C | WALL PACK LIGHT |







3 ENLARGED ELEVATION - BRICK PIER



CONSTRUCTION Lee's Summit, Missouri 07/08/2025

Dev Anand President & CEO

Kevin Campbell Senior Architect

8807 Monrovia Street

Lenexa, Kansas 66215

Phone: 913.322.8882 Fax: 913.322.8886 Email: kevin@dev-inc.com

THIS DRAWING has been prepared by the Architect, or prepared under his direct supervision as an instrument of service and is intended for use only on this project. All Drawings, Specifications, ideas and designs, including the overall layout, form, arrangement, and composition of spaces and elements portrayed, constitute the original, unpublished Work of the Architect. Any reproduction, use, or disclosure of the information contained herein without the written consent of the Architect is strictly prohibited.

COMPLY WITH all laws, codes, ordinances and regulations with authorities having jurisdiction and with requirements of the Landlord, if applicable.

Do not start Work until all permits and required approvals are obtained.

SURGEONS

STIC

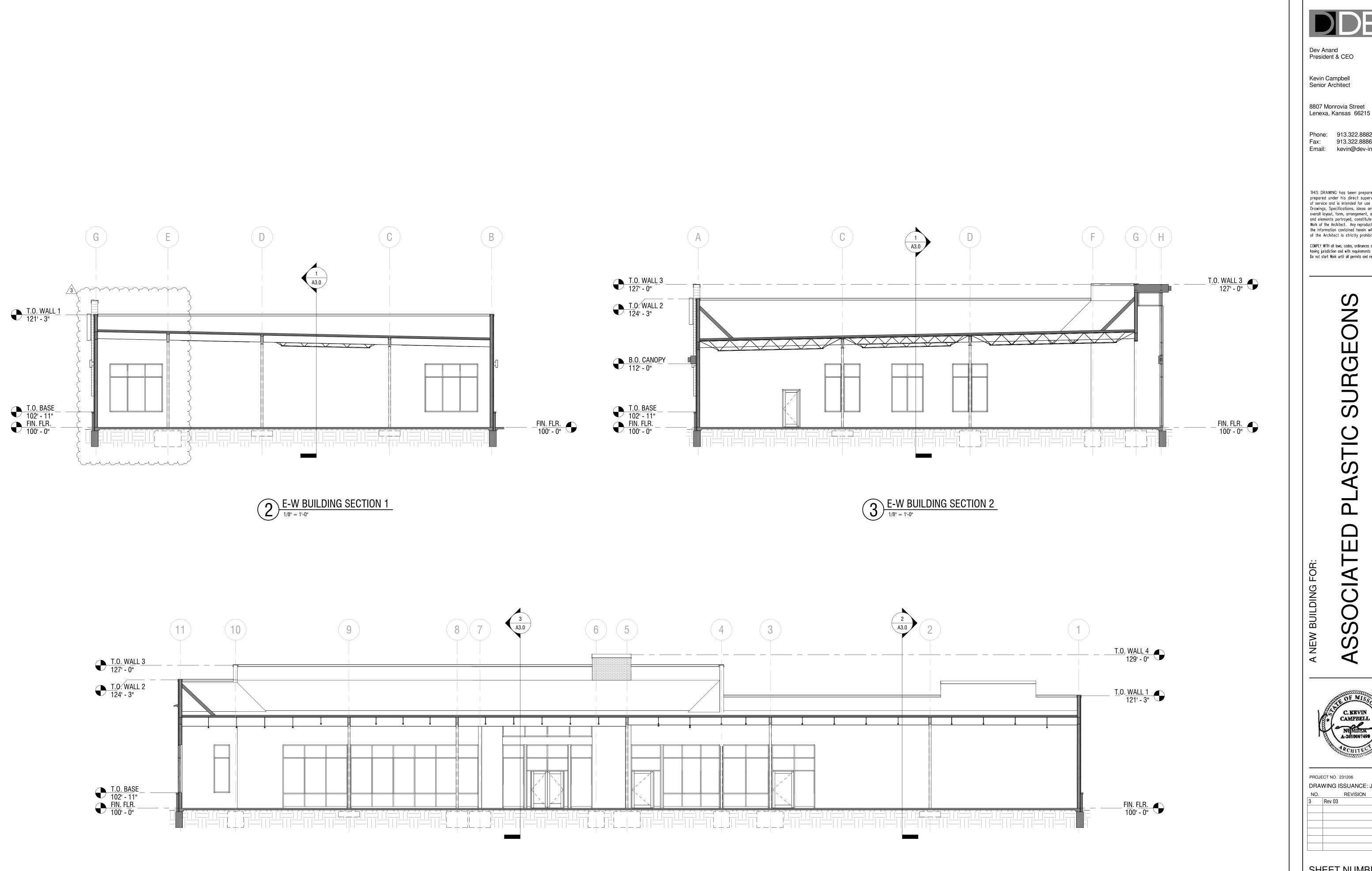
ASSOCIAT



PROJECT NO. 231206 DRAWING ISSUANCE: JAN 28, 2025 06/20/2025

SHEET NUMBER

BUILDING ELEVATIONS



N-S BUILDING SECTION

1/8" = 1'-0"

RELEASED FOR CONSTRUCTION velopment Services Depart Lee's Summit, Missouri 07/08/2025

Dev Anand President & CEO

Kevin Campbell Senior Architect

8807 Monrovia Street

Phone: 913.322.8882 913.322.8886 Email: kevin@dev-inc.com

THIS DRAWING has been prepared by the Architect, or prepared under his direct supervision as an instrument of service and is intended for use only on this project. All Drawings, Specifications, ideas and designs, including the overall layout, form, arrangement, and composition of spaces and elements portrayed, constitute the original, unpublished Work of the Architect. Any reproduction, use, or disclosure of the information contained herein without the written consent of the Architect is strictly prohibited.

COMPLY WITH all laws, codes, ordinances and regulations with authorities having jurisdiction and with requirements of the Landlord, if applicable. Do not start Work until all permits and required approvals are obtained.

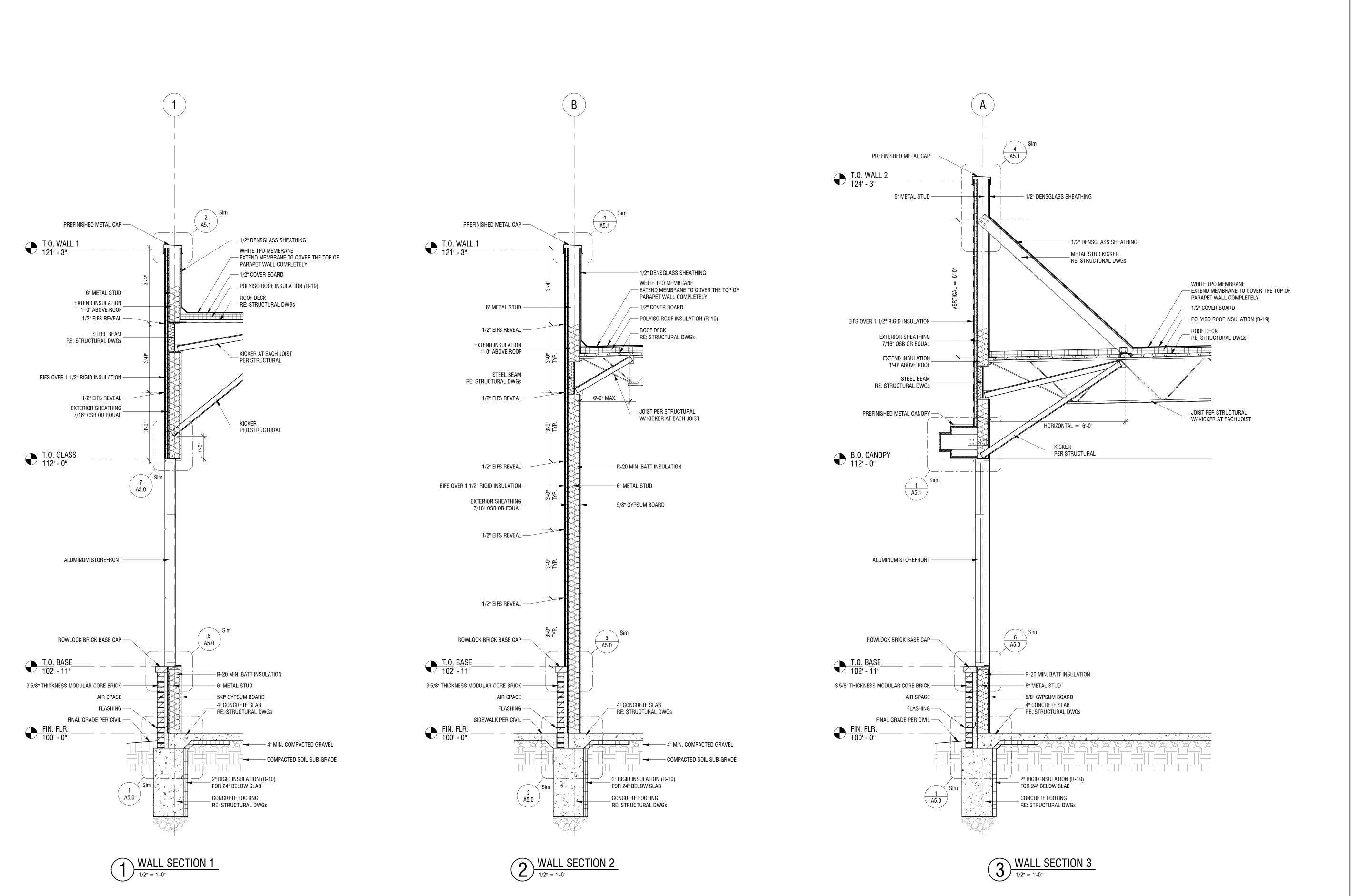
STIC SURGEONS

回 ASSOCIATED I-470 BUSINESS & TECHNOI NE McBAIN DRIVE LEE'S SUMMIT, MISSOURI

PROJECT NO. 231206 DRAWING ISSUANCE: JAN 28, 2025

SHEET NUMBER

BUILDING SECTIONS



CONSTRUCTION Lee's Summit, Misso

Dev Anand President & CEO

Kevin Campbell

Senior Architect

8807 Monrovia Street Lenexa, Kansas 66215

Phone: 913.322.8882 Fax: 913.322.8886 Email: kevin@dev-inc.com

THIS DRAWING has been prepared by the Architect, or prepared under his direct supervision as an instrument of service and is intended for use only on this project. All Drawings, Specifications, ideas and designs, including the overall layout, form, arrangement, and composition of spaces and elements portrayed, constitute the original, unpublished Work of the Architect. Any reproduction, use, or disclosure of the information contained herein without the written consent of the Architect is strictly prohibited.

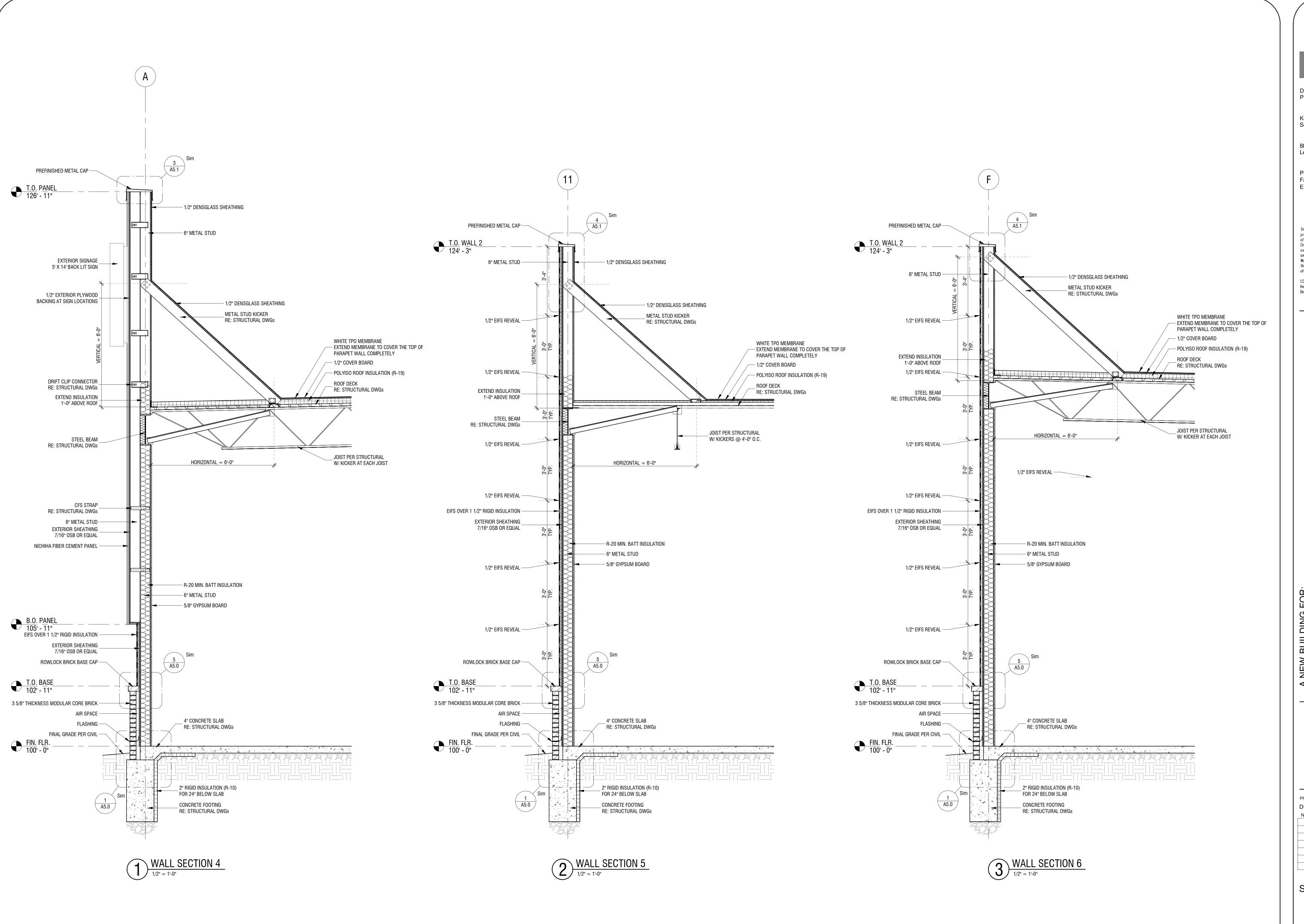
COMPLY WITH all laws, codes, ordinances and regulations with authorities having jurisdiction and with requirements of the Landlord, if applicable. Do not start Work until all permits and required approvals are obtained.

SURGEONS

SSOC

PROJECT NO. 231206 DRAWING ISSUANCE: JAN 28, 2025 REVISION

SHEET NUMBER



CONSTRUCTION Lee's Summit, Missou

Dev Anand President & CEO

Kevin Campbell

Senior Architect

8807 Monrovia Street Lenexa, Kansas 66215

Phone: 913.322.8882 Fax: 913.322.8886 Email: kevin@dev-inc.com

THIS DRAWING has been prepared by the Architect, or prepared under his direct supervision as an instrument of service and is intended for use only on this project. All Drawings, Specifications, ideas and designs, including the overall layout, form, arrangement, and composition of spaces and elements portrayed, constitute the original, unpublished Work of the Architect. Any reproduction, use, or disclosure of the information contained herein without the written consent of the Architect is strictly prohibited.

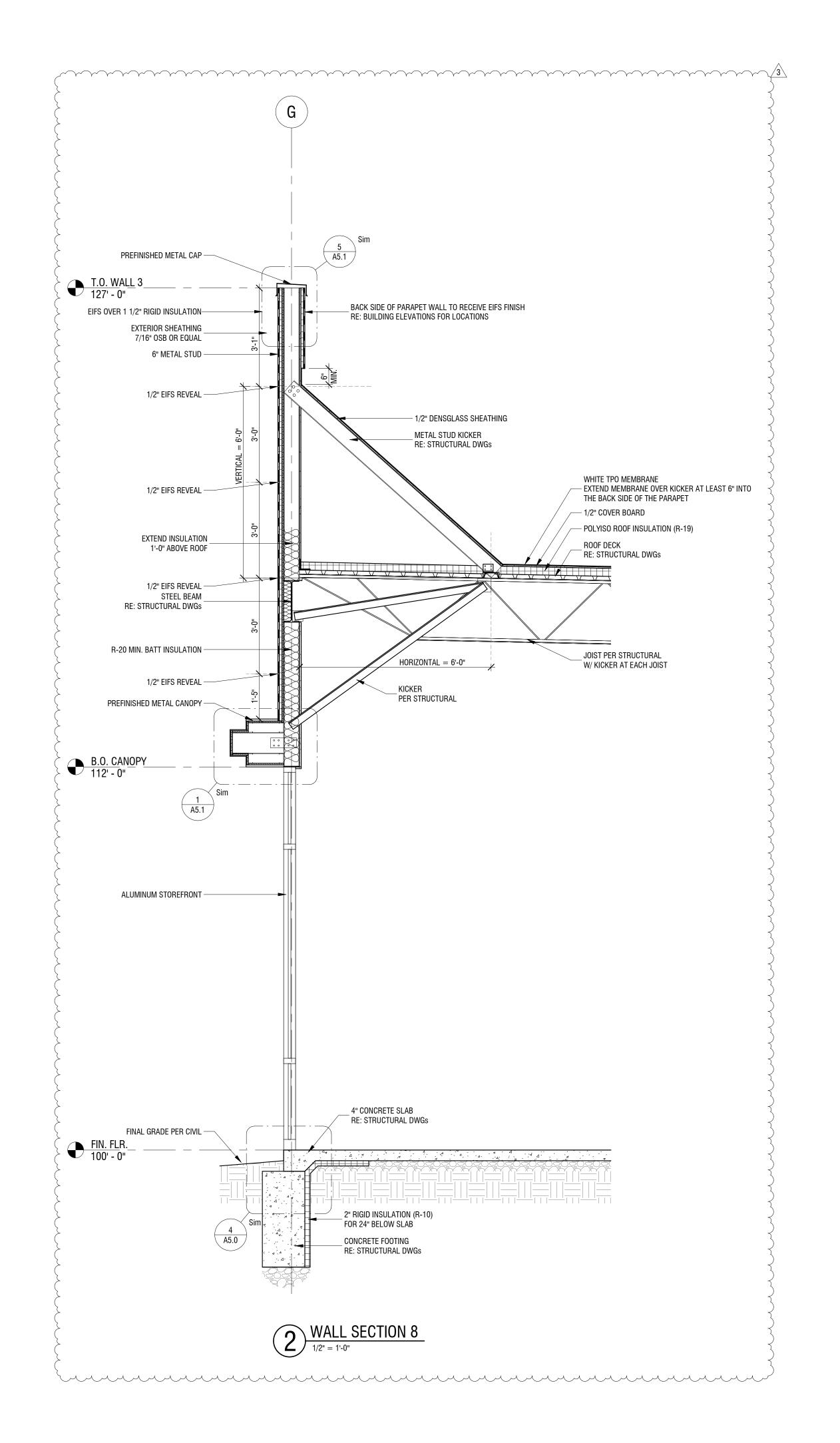
COMPLY WITH all laws, codes, ordinances and regulations with authorities having jurisdiction and with requirements of the Landlord, if applicable.

Do not start Work until all permits and required approvals are obtained.

SURGEONS

PROJECT NO. 231206 DRAWING ISSUANCE: JAN 28, 2025 REVISION

SHEET NUMBER



Lee's Summit, Missou

CONSTRUCTION

Dev Anand President & CEO

Kevin Campbell

Senior Architect

8807 Monrovia Street Lenexa, Kansas 66215

Phone: 913.322.8882 Fax: 913.322.8886 Email: kevin@dev-inc.com

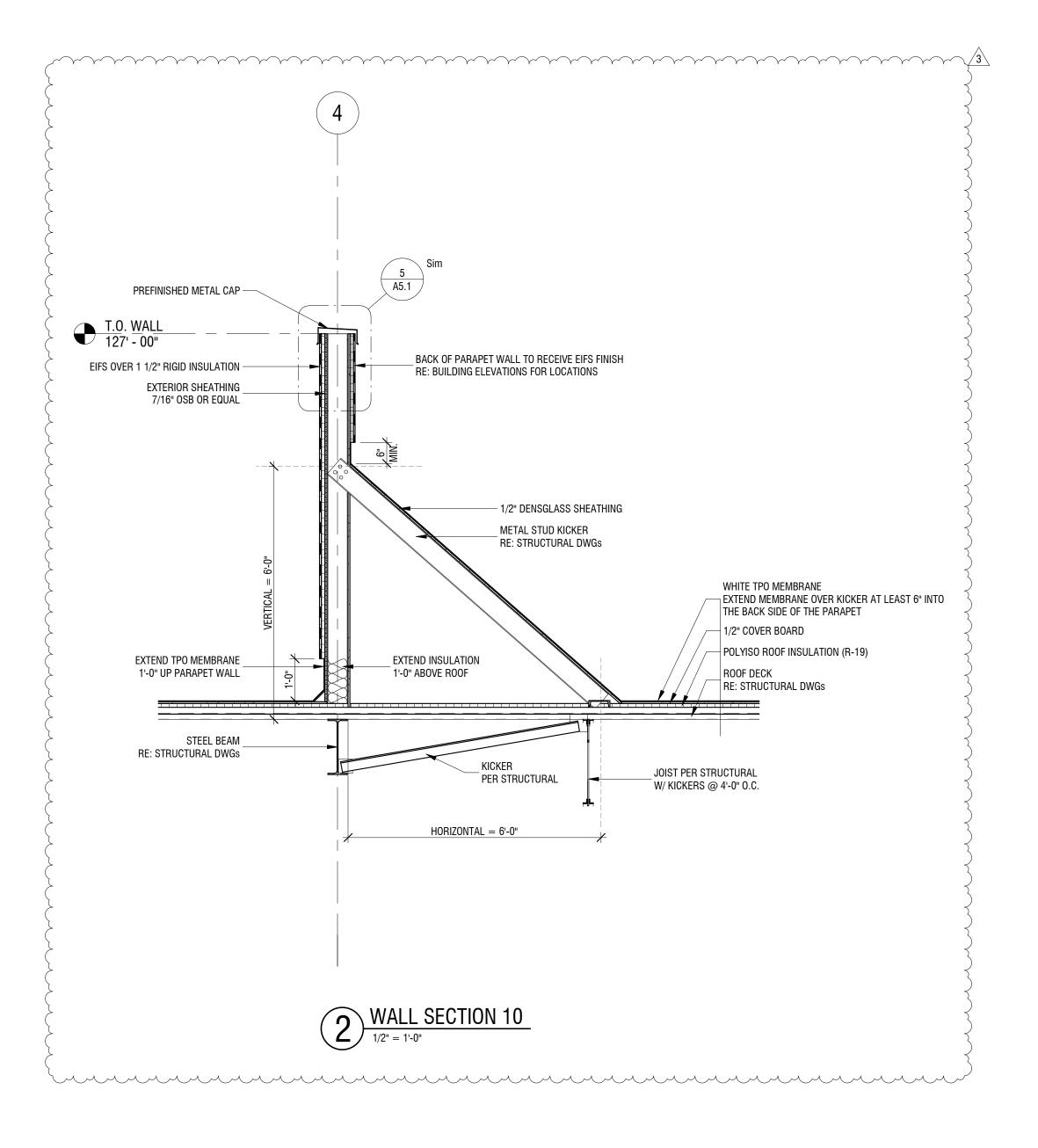
THIS DRAWING has been prepared by the Architect, or prepared under his direct supervision as an instrument of service and is intended for use only on this project. All Drawings, Specifications, ideas and designs, including the overall layout, form, arrangement, and composition of spaces and elements portrayed, constitute the original, unpublished Work of the Architect. Any reproduction, use, or disclosure of the information contained herein without the written consent of the Architect is strictly prohibited.

COMPLY WITH all laws, codes, ordinances and regulations with authorities having jurisdiction and with requirements of the Landlord, if applicable. Do not start Work until all permits and required approvals are obtained.

SURGEONS SSOC

PROJECT NO. 231206 DRAWING ISSUANCE: JAN 28, 2025

SHEET NUMBER



Lee's Summit, Missouri 07/08/2025

CONSTRUCTION



Dev Anand President & CEO

Kevin Campbell

Senior Architect

8807 Monrovia Street Lenexa, Kansas 66215

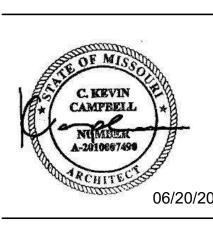
Phone: 913.322.8882 Fax: 913.322.8886 Email: kevin@dev-inc.com

THIS DRAWING has been prepared by the Architect, or prepared under his direct supervision as an instrument of service and is intended for use only on this project. All Drawings, Specifications, ideas and designs, including the overall layout, form, arrangement, and composition of spaces and elements portrayed, constitute the original, unpublished Work of the Architect. Any reproduction, use, or disclosure of the information contained herein without the written consent of the Architect is strictly prohibited.

COMPLY WITH all laws, codes, ordinances and regulations with authorities having jurisdiction and with requirements of the Landlord, if applicable. Do not start Work until all permits and required approvals are obtained.

SURGEONS

ASSOC



06/20/2025

PROJECT NO. 231206 DRAWING ISSUANCE: JAN 28, 2025

SHEET NUMBER

menter and the contraction of th

CONSTRUCTION Lee's Summit, Missouri 07/08/2025



Dev Anand President & CEO

Kevin Campbell Senior Architect

8807 Monrovia Street

Lenexa, Kansas 66215

Phone: 913.322.8882 Fax: 913.322.8886 Email: kevin@dev-inc.com

THIS DRAWING has been prepared by the Architect, or prepared under his direct supervision as an instrument of service and is intended for use only on this project. All Drawings, Specifications, ideas and designs, including the overall layout, form, arrangement, and composition of spaces and elements portrayed, constitute the original, unpublished Work of the Architect. Any reproduction, use, or disclosure of the information contained herein without the written consent of the Architect is strictly prohibited.

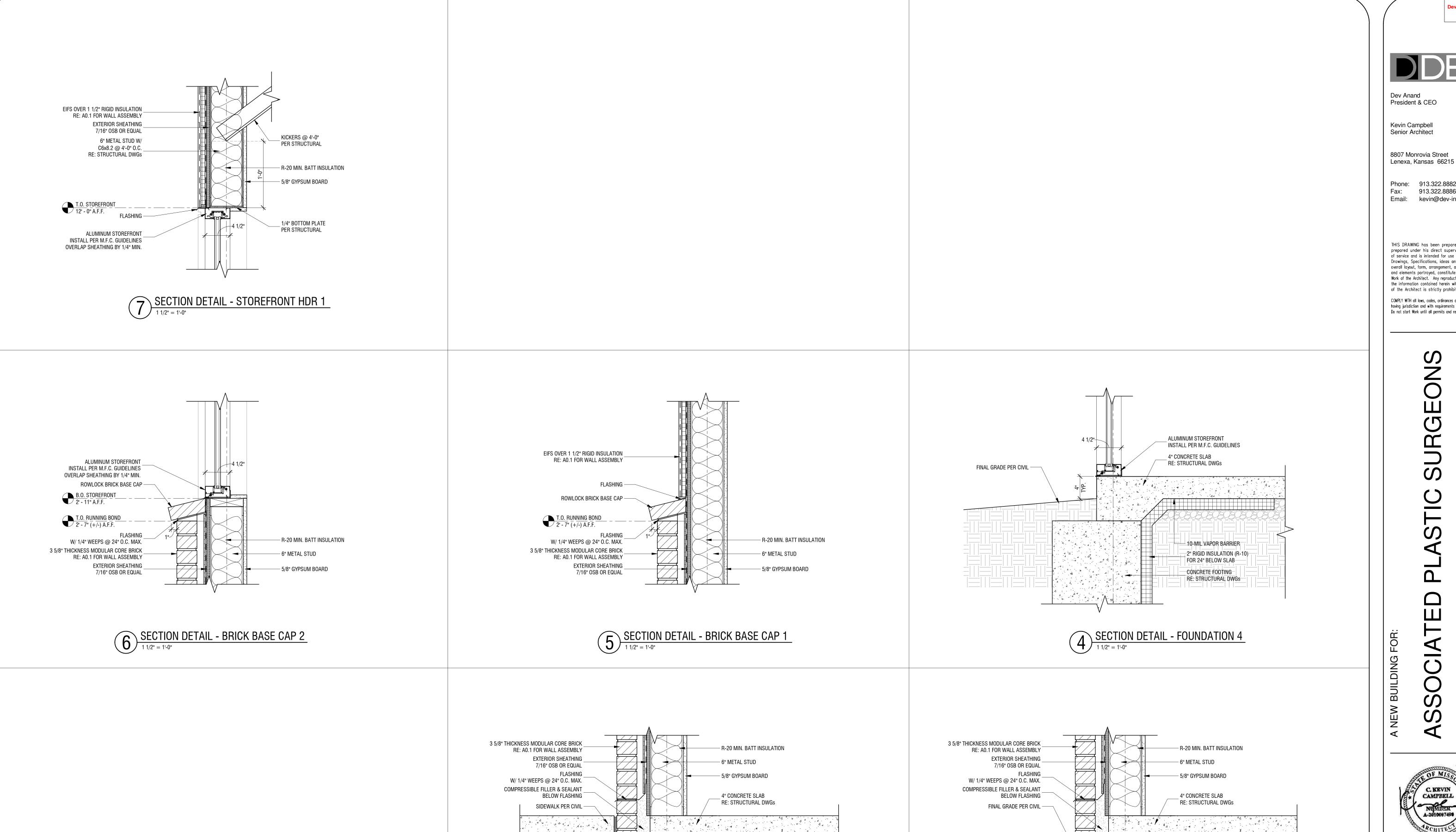
COMPLY WITH all laws, codes, ordinances and regulations with authorities having jurisdiction and with requirements of the Landlord, if applicable.

Do not start Work until all permits and required approvals are obtained.

SURGEONS

PROJECT NO. 231206 DRAWING ISSUANCE: JAN 28, 2025

SHEET NUMBER



10-MIL VAPOR BARRIER

FOR 24" BELOW SLAB— CONCRETE FOOTING

RE: STRUCTURAL DWGs

SECTION DETAIL - FOUNDATION 2

1 1/2" = 1'-0"

-2" RIGID INSULATION (R-10)

CONSTRUCTION Lee's Summit, Missou

Dev Anand President & CEO

Kevin Campbell

Senior Architect

8807 Monrovia Street

Phone: 913.322.8882

Fax: 913.322.8886 Email: kevin@dev-inc.com

THIS DRAWING has been prepared by the Architect, or prepared under his direct supervision as an instrument of service and is intended for use only on this project. All Drawings, Specifications, ideas and designs, including the overall layout, form, arrangement, and composition of spaces and elements portrayed, constitute the original, unpublished Work of the Architect. Any reproduction, use, or disclosure of the information contained herein without the written consent of the Architect is strictly prohibited.

COMPLY WITH all laws, codes, ordinances and regulations with authorities

having jurisdiction and with requirements of the Landlord, if applicable. Do not start Work until all permits and required approvals are obtained.

SURGEONS

M

ASSOC

PROJECT NO. 231206 DRAWING ISSUANCE: JAN 28, 2025 REVISION

SHEET NUMBER

- 10-MIL VAPOR BARRIER

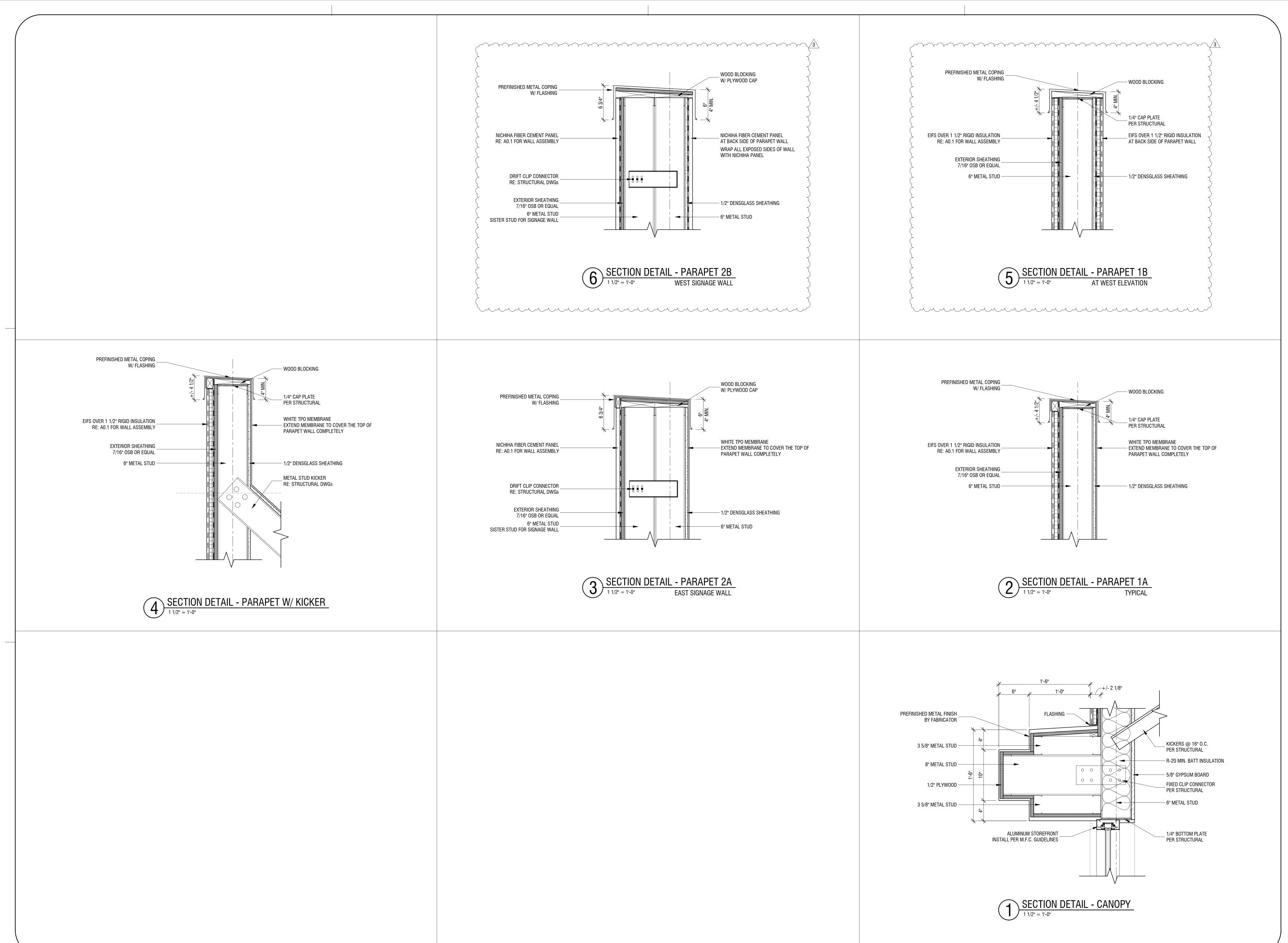
CONCRETE FOOTING

SECTION DETAIL - FOUNDATION 1

RE: STRUCTURAL DWGs

 $^-$ 2" RIGID INSULATION (R-10) $^-$ FOR 24" BELOW SLAB

> **A5.0** DETAILS



CONSTRUCTION Lee's Summit, Missouri

Dev Anand President & CEO

Kevin Campbell Senior Architect

8807 Monrovia Street Lenexa, Kansas 66215

Phone: 913.322.8882 Fax: 913.322.8886 Email: kevin@dev-inc.com

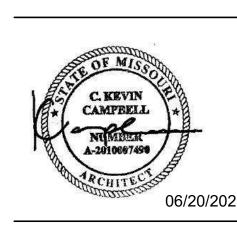
THIS DRAWING has been prepared by the Architect, or prepared under his direct supervision as an instrument of service and is intended for use only on this project. All Drawings, Specifications, ideas and designs, including the overall layout, form, arrangement, and composition of spaces and elements portrayed, constitute the original, unpublished Work of the Architect. Any reproduction, use, or disclosure of the information contained herein without the written consent

of the Architect is strictly prohibited.

COMPLY WITH all laws, codes, ordinances and regulations with authorities having jurisdiction and with requirements of the Landlord, if applicable. Do not start Work until all permits and required approvals are obtained.

SURGEONS

ASSOC



PROJECT NO. 231206 DRAWING ISSUANCE: JAN 28, 2025

SHEET NUMBER

DETAILS

EXTERIOR SHEATHING

7/16" OSB OR EQUAL

T.O. WALL 3 (PARAPET)

STEEL BEAM

OR LOWER.

24'-10" A.F.F. (RE: STRUCTURE DWGs)

T.O. WALL 2 (PARAPET)

PER STRUCTURAL

— FLASHING

24'-3" A.F.F.

RE: STRUCTURAL DWGs

EXTEND BRICK COURSE TO BELOW

BACK WALL ELEVATION OF 124'-3"

1/4" PLATE FOR BRICK SUPPORT

EIFS OVER 1 1/2" RIGID INSULATION

AT BACK SIDE OF PARAPET WALL

27'-0" A.F.F.

6" METAL STUD —

STEEL BEAM

6" METAL STUD —

RE: STRUCTURAL DWGs

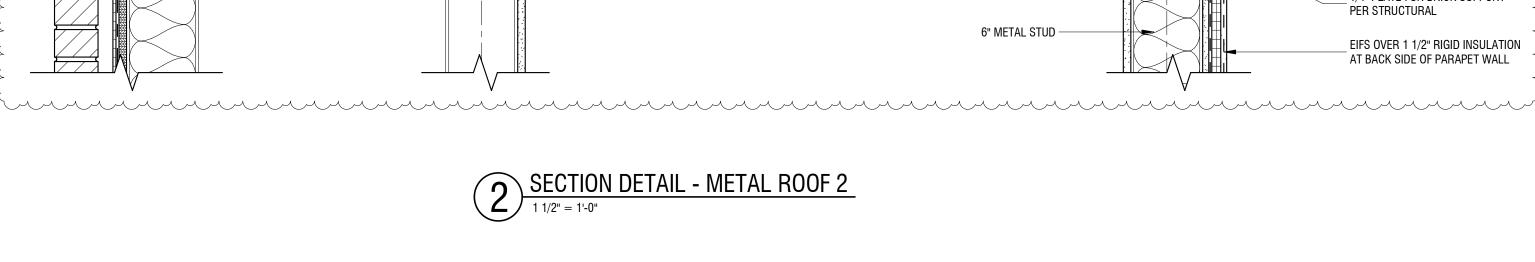
CONSTRUCTION

Lee's Summit, Missou 07/08/2025

PROJECT NO. 231206 DRAWING ISSUANCE: JAN 28, 2025 REVISION 06/20/2025 Rev 03

SHEET NUMBER

DETAILS



METAL STUD FRAMING W/ _ 5/8" GYPSUM BOARD SHEATHING.

INSTALL VENT PANELS AS NECESSARY

6" METAL STUD — ►

EXTERIOR SHEATHING

7/16" OSB OR EQUAL

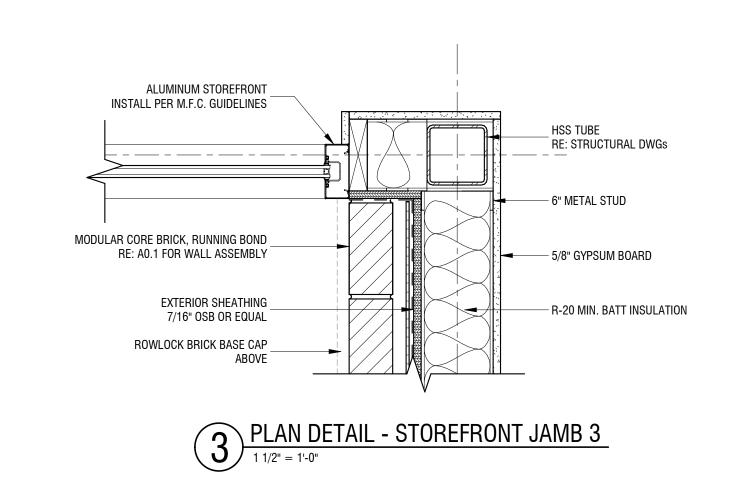
PLAN DETAIL - STOREFRONT JAMB 1

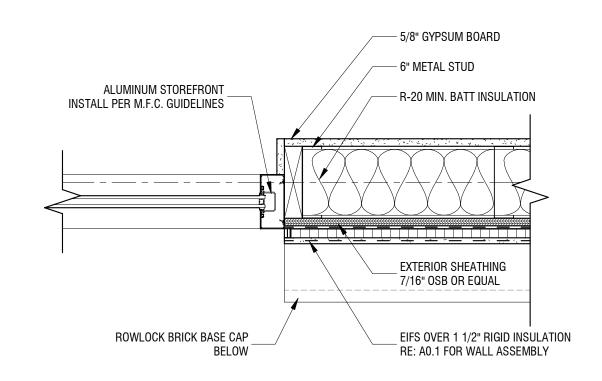
1 1/2" = 1'-0"

ROWLOCK BRICK BASE CAP

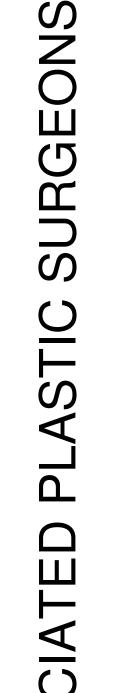
EXTERIOR SHEATHING 7/16" OSB OR EQUAL

EIFS OVER 1 1/2" RIGID INSULATION ___ RE: A0.1 FOR WALL ASSEMBLY









RELEASED FOR CONSTRUCTION

Lee's Summit, Missouri 07/08/2025

Dev Anand

President & CEO

Kevin Campbell

Senior Architect

8807 Monrovia Street

Lenexa, Kansas 66215

Phone: 913.322.8882 Fax: 913.322.8886

Email: kevin@dev-inc.com

of the Architect is strictly prohibited.

THIS DRAWING has been prepared by the Architect, or prepared under his direct supervision as an instrument

of service and is intended for use only on this project. All

Drawings, Specifications, ideas and designs, including the overall layout, form, arrangement, and composition of spaces and elements portrayed, constitute the original, unpublished Work of the Architect. Any reproduction, use, or disclosure of the information contained herein without the written consent

COMPLY WITH all laws, codes, ordinances and regulations with authorities having jurisdiction and with requirements of the Landlord, if applicable. Do not start Work until all permits and required approvals are obtained.

ASSOCIAT

PROJECT NO. 231206 DRAWING ISSUANCE: JAN 28, 2025 REVISION

SHEET NUMBER

| DOOR SCHEDULE | | | | | | | | | | | | | | |
|---------------|------------|---------------------------------------|---------|---------|-------------|-----------|-------------|-------|----------|----------|----------|----------|--------------|------------------------|
| D00D WWWDED | EI EVATION | | WIDTH | SIZE | THINKINGO | ODEDATION | FIDE DATING | DOOR | DOOR | DOOR | FRAME | FRAME | HADDWADE OFT | DEMANUA |
| DOOR NUMBER | ELEVATION | LOCATION | WIDTH | HEIGHT | THICKNESS | OPERATION | FIRE RATING | TYPE | MATERIAL | FINISH | MATERIAL | FINISH | HARDWARE SET | REMARKS |
| FIN. FLR. | | | | | | 1 | | _ | 1 | | | | | |
| 01a | E | CLINIC & MED SPA ENTRANCE | 6' - 0" | 7' - 0" | 0' - 1 3/4" | SW | NON | AF-GP | ALUM/GL | ANODIZED | ALUM | ANODIZED | 1 | ENTRY/EGRESS DOOR |
| 01b | E | CLINIC & MED SPA ENTRANCE - VESTIBULE | 6' - 0" | 7' - 0" | 0' - 1 3/4" | SW | NON | AF-GP | ALUM/GL | ANODIZED | ALUM | ANODIZED | 1 | ENTRY/EGRESS DOOR |
| 02 | В | CLINIC & MED SPA CORRIDOR - EXIT | 3' - 0" | 7' - 0" | 0' - 1 5/8" | SW | NON | AF-GP | ALUM/GL | ANODIZED | HM | PAINTED | 3 | EGRESS DOOR |
| 03 | Α | ELECTRICAL ROOM | 3' - 0" | 7' - 0" | 0' - 1 5/8" | SW | NON | F | НМ | PAINTED | HM | PAINTED | 3 | PROVIDE PANIC HARDWARE |
| 04 | Α | FIRE ROOM | 3' - 0" | 7' - 0" | 0' - 1 5/8" | SW | NON | F | HM | PAINTED | HM | PAINTED | 4 | |
| 05 | Α | ASC CORRIDOR - EXIT | 4' - 0" | 7' - 0" | 0' - 1 5/8" | SW | NON | F | HM | PAINTED | HM | PAINTED | 3 | EGRESS DOOR |
| 06 | Α | SERVICE DOOR | 3' - 0" | 7' - 0" | 0' - 1 5/8" | SW | NON | F | HM | PAINTED | HM | PAINTED | 4 | |
| 07 | Α | SERVICE DOOR | 4' - 0" | 7' - 0" | 0' - 1 5/8" | SW | NON | F | НМ | PAINTED | HM | PAINTED | 4 | |
| 08 | Α | SERVICE DOOR | 3' - 0" | 7' - 0" | 0' - 1 5/8" | SW | NON | F | НМ | PAINTED | HM | PAINTED | 4 | |
| 09 | Α | STERILE CORRIDOR - EXIT | 4' - 0" | 7' - 0" | 0' - 1 5/8" | SW | NON | F | HM | PAINTED | HM | PAINTED | 3 | EGRESS DOOR |
| 10 | D | ASC DISCHARGE | 4' - 0" | 7' - 0" | 0' - 1 3/4" | SW | NON | AF-GP | ALUM/GL | ANODIZED | ALUM | ANODIZED | 2 | ENTRY/EGRESS DOOR |
| 11a | D | ASC ENTRANCE | 4' - 0" | 7' - 0" | 0' - 1 3/4" | SW | NON | AF-GP | ALUM/GL | ANODIZED | ALUM | ANODIZED | 2 | ENTRY/EGRESS DOOR |
| 11b | D | ASC ENTRANCE - VESTIBULE | 4' - 0" | 7' - 0" | 0' - 1 3/4" | SW | NON | AF-GP | ALUM/GL | ANODIZED | ALUM | ANODIZED | 2 | ENTRY/EGRESS DOOR |

manne mande de la compressión del compressión de la compressión de

ABBREVIATION LEGEND

DOOR OPERATION

SW SWING
OH OVERHEAD

OH OVERHEA
BF BIFOLD
PKT POCKET
SL SLIDING

BYP BYPASS

DOOR MATERIALS

WD WOOD

MTL METAL

WD WOOD
MTL METAL
SCW SOLID CORE WOOD
HCW HOLLOW CORE WOOD

ALUM ALUMINUM GL GLASS

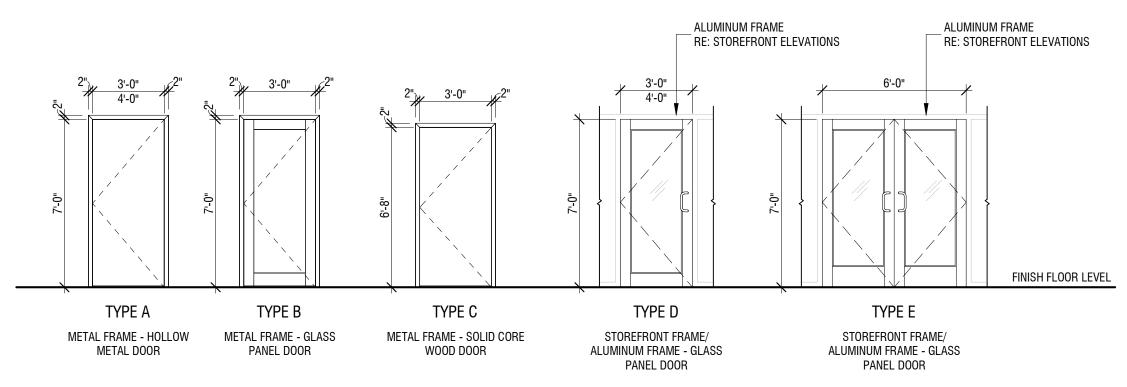
HM HOLLOW METAL

DOOR PANEL TYPE
F FLUSH PANEL

WF-GP WOOD FRAME/GLASS PANEL

AF-GP ALUMINUM FRAME/GLASS PANEL MF-GP METAL FRAME/GLASS PANEL

DOOR ELEVATIONS



HARDWARE SCHEDULE:

SET 1
(6) BUTTS
(1) CARD READER LOCK SET
(1) FIRE EXIT/PANIC HARDWARE
(1) STOP
CLOSER
THRESHOLD

SET 2
(3) BUTTS
(1) CARD READER LOCK SET
(1) FIRE EXIT/PANIC HARDWARE
(1) STOP
CLOSER
THRESHOLD

SET 2
(3) BUTTS
(1) CARD READER LOCK SET
(1) FIRE EXIT/PANIC HARDWARE
(1) STOP
CLOSER
THRESHOLD

SET 3
(3) BUTTS
(1) FIRE EXIT/PANIC HARDWARE
(1) STOP
(1)

NOTES:

1. PROVIDE MISC. ASSOCIATED HARDWARE (SILENCERS, SWEEPS) AS REQUIRED.

2. INSTALL EACH HARDWARE ITEM TO COMPLY WITH THE MANUFACTURER'S INSTRUCTIONS.

3. PROVIDE DRIP FLASHING AT ALL EXTERIOR DOORS.

4. SET THRESHOLDS FOR EXTERIOR DOORS IN FULL BED OF BUTYL RUBBER OR POLYISOBUTYLENE SEALANT.

DDEV

Dev Anand President & CEO

Kevin Campbell Senior Architect

8807 Monrovia Street

Lenexa, Kansas 66215

Phone: 913.322.8882
Fax: 913.322.8886

Email: kevin@dev-inc.com

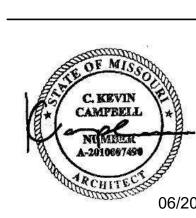
THIS DRAWING has been prepared by the Architect, or prepared under his direct supervision as an instrument of service and is intended for use only on this project. All Drawings, Specifications, ideas and designs, including the overall layout, form, arrangement, and composition of spaces and elements portrayed, constitute the original, unpublished Work of the Architect. Any reproduction, use, or disclosure of the information contained herein without the written consent of the Architect is strictly prohibited.

COMPLY WITH all laws, codes, ordinances and regulations with authorities having jurisdiction and with requirements of the Landlord, if applicable. Do not start Work until all permits and required approvals are obtained.

S

D PLASTIC SURGEONS

ASSOCIATED P



PROJECT NO. 231206

DRAWING ISSUANCE: JAN 28, 2025

NO. REVISION DATE

1 Rev 01 03/07/2025

3 Rev 03 06/20/2025

SHEET NUMBER

A6.0

DOOR & HARDWARE SCHEDULE

STOREFRONT NOTES

Grand total: 5

1) RE: EXTERIOR FINISHING SCHEDULE FOR INFORMATION ON MATERIALS, SYSTEMS, AND COLORS 2) STOREFRONT TO BE INSTALLED PER MANUFACTURER'S APPROVED PROCEDURES, METHODS AND

APPLICABLE INDUSTRY STANDARDS 3) COORDINATE PLACEMENT OF ALL VENTS AND OTHER EXTERIOR ELEMENTS WITH LOCATIONS OF SCORE JOINTS (TYP.) 4) STOREFRONT GLAZING TO BE SUNGUARD-SUPERNEUTRAL 68 SOLAR HEAT GAIN COEFFICIENT 0.38

VISIBLE LIGHT TRANSMITTANCE 68% U-VALUE 0.29

| | STOREFRONT SCHEDULE - EXTERIOR | | | | | | | | |
|-----------|--------------------------------|----------|-------------|-----------|--------|--|--|--|--|
| MARK | WIDTH | HEIGHT | SILL HEIGHT | TYPE MARK | REMARK | | | | |
| FIN. FLR. | | | | | | | | | |
| E.1 | 34' - 9" | 12' - 0" | 0' - 0" | SF | | | | | |
| E.2 | 16' - 11" | 12' - 0" | 0' - 0" | SF | | | | | |
| E.3 | 37' - 0" | 12' - 0" | 0' - 0" | SF | | | | | |
| E.4 | 3' - 0" | 9' - 1" | 2' - 11" | SF | | | | | |
| E.5 | 6' - 8" | 9' - 1" | 2' - 11" | SF | | | | | |
| E.6 | 6' - 0" | 9' - 1" | 2' - 11" | SF | | | | | |
| E.7 | 6' - 8" | 9' - 1" | 2' - 11" | SF | | | | | |
| E.8 | 6' - 0" | 9' - 1" | 2' - 11" | SF | | | | | |
| E.9 | 6' - 0" | 9' - 1" | 2' - 11" | SF | | | | | |
| E.10 | 11' - 10" | 9' - 1" | 2' - 11" | SF | | | | | |
| E.11 | 10' - 0" | 9' - 1" | 2' - 11" | SF | | | | | |
| E.12 | 10' - 0" | 9' - 1" | 2' - 11" | SF | | | | | |

| D.O. CANOF I | | | | | |
|-----------------|-----------|----------|---------|----|--|
| E.13 | 16' - 11" | 12' - 0" | 1' - 6" | SF | |
| T.O. WALL 1 | | | | | |
| E.14 | 4' - 1" | 2' - 7" | 1' - 8" | SF | |
| Grand total: 14 | 4 | | | | |

| MARK | WIDTH | HEIGHT | SILL HEIGHT | TYPE MARK | REMARK |
|-----------|--------------|----------|-------------|-----------|--------|
| | | | I | l | |
| FIN. FLR. | | | | | |
| I.1 | 8' - 4 1/2" | 12' - 0" | 0' - 0" | SF | |
| 1.2 | 7' - 0" | 12' - 0" | 0' - 0" | SF | |
| 1.3 | 7' - 0" | 12' - 0" | 0' - 0" | SF | |
| 1.4 | 5' - 10 1/4" | 12' - 0" | 0' - 0" | SF | |
| 1.5 | 7' - 0" | 12' - 0" | 0' - 0" | SF | |

STOREFRONT SCHEDULE - INTERIOR

CONSTRUCTION

Lee's Summit, Misson 07/08/2025

Dev Anand President & CEO

Kevin Campbell

Senior Architect

8807 Monrovia Street Lenexa, Kansas 66215

Phone: 913.322.8882 Fax: 913.322.8886 Email: kevin@dev-inc.com

THIS DRAWING has been prepared by the Architect, or prepared under his direct supervision as an instrument of service and is intended for use only on this project. All Drawings, Specifications, ideas and designs, including the overall layout, form, arrangement, and composition of spaces and elements portrayed, constitute the original, unpublished Work of the Architect. Any reproduction, use, or disclosure of the information contained herein without the written consent of the Architect is strictly prohibited.

COMPLY WITH all laws, codes, ordinances and regulations with authorities having jurisdiction and with requirements of the Landlord, if applicable.

Do not start Work until all permits and required approvals are obtained.

SURGEONS

ASSOCIAT

PROJECT NO. 231206 DRAWING ISSUANCE: JAN 28, 2025

SHEET NUMBER

STOREFRONT SCHEDULE

| | 03_Abbreviation Schedule |
|---|---|
| Abbreviation | Abbreviation Name |
| +/- ADDNL | PLUS OR MINUS ADDITIONAL |
| ADJ | ADJACENT |
| AESS | ARCHITECTURALLY EXPOSED STRUCTURAL STEEL |
| AFF ALT | ABOVE FINISHED FLOOR ALTERNATE |
| AR | ANCHOR ROD |
| ARCH B/ | ARCHITECT OR ARCHITECTURAL BOTTOM OF |
| B/W | BETWEEN |
| BLDG | BUILDING |
| BLKG BM | BLOCKING BEAM |
| BOT | BOTTOM |
| BRG BWP | BEARING BRACED WALL PANEL |
| CFS | COLD FORMED STEEL |
| CHKD CIP | CHECKED CAST IN PLACE |
| CJ CJP | CONTROL JOINT |
| CL | COMPLETE JOINT PENETRATION CENTERLINE |
| CLR COL | CLEAR COLUMN |
| CONC | CONCRETE |
| CONN | CONNECTION CONTINUOUS |
| CTR | CENTER |
| db | DIA OF REINF BAR, DIA OF BOLT |
| DBA DIA or Ø | DEFORMED BAR ANCHOR DIAMETER |
| DIAG | DIAGONAL |
| DIR DWL | DIRECTION DOWEL |
| EA | EACH |
| EE EJ | EXTENDED END EXPANSION JOINT |
| ELEV | ELEVATION |
| EN ENGR | EDGE NAILING ENGINEER |
| EOD | EDGE OF DECK |
| EOS EQ | EDGE OF SLAB EQUAL |
| EW | EACH WAY |
| EXIST EXT | EXISTING EXTERIOR |
| FDN | FOUNDATION |
| FLG FLR | FLANGE FLOOR |
| FS | FAR SIDE |
| FTG FV | FOOTING FIELD VERIFY |
| GA | GAUGE |
| GALV GB | GALVANIZED GRADE BEAM |
| GC | GENERAL CONTRACTOR |
| HORIZ HSA | HORIZONTAL HEADED STUD ANCHOR |
| HSS | HOLLOW STRUCTURAL SECTION |
| IF INT | INSIDE FACE INTERIOR |
| JST | JOIST |
| LCE | KIPS (1000 LBS) COMPRESSION EMBEDMENT LENGTH |
| LCS | COMPRESSION LAP SPLICE LENGTH |
| LLH LLV | LONG LEG HORIZONTAL LONG LEG VERTICAL |
| LSH LTE | LONG SLOTTED HOLE |
| LTS | TENSION EMBEDMENT LENGTH TENSION LAP SLICE LENGTH |
| LW | LIGHTWEIGHT |
| MFCR MTL | MANUFACTURER METAL |
| NIC | NOT IN CONTRACT |
| NS NTS | NEAR SIDE NOT TO SCALE |
| OC | ON CENTER |
| OF OPP | OUTSIDE FACE OPPOSITE |
| OVS | OVERSIZED |
| P/C PAF | PRECAST POWDER ACTUATED FASTENER |
| PAR | PARALLEL |
| PEMB PEN | PRE-ENGINEERED METAL BUILDING PENETRATION |
| PERP | PERPENDICULAR |
| PL PLF | PLATE POUNDS PER LINEAR FOOT |
| PREFAB | PREFABRICATED |
| PRELIM PSF | PRELIMINARY POUNDS PER SQUARE FOOT |
| PSI | POUNDS PER SQUARE INCH |
| RC | REINFORCED CONCRETE REFER TO |
| RE: | REINFORCING |
| RE: REINF | |
| RE: | REQUIRED RIGID FRAME |
| RE: REINF REQD RF SC | REQUIRED RIGID FRAME SLIP CRITICAL |
| RE: REINF REQD RF | REQUIRED RIGID FRAME |
| RE: REINF REQD RF SC SDS SIM SLV | REQUIRED RIGID FRAME SLIP CRITICAL SELF DRILLING SCREW SIMILAR SHORT LEG VERTICAL |
| RE: REINF REQD RF SC SDS SIM | REQUIRED RIGID FRAME SLIP CRITICAL SELF DRILLING SCREW SIMILAR |
| RE: REINF REQD RF SC SDS SIM SLV SOG SQ SS | REQUIRED RIGID FRAME SLIP CRITICAL SELF DRILLING SCREW SIMILAR SHORT LEG VERTICAL SLAB ON GRADE SQUARE STAINLESS STEEL |
| RE: REINF REQD RF SC SDS SIM SLV SOG SQ SS STD | REQUIRED RIGID FRAME SLIP CRITICAL SELF DRILLING SCREW SIMILAR SHORT LEG VERTICAL SLAB ON GRADE SQUARE STAINLESS STEEL STANDARD |
| RE: REINF REQD RF SC SDS SIM SLV SOG SQ SS STD STIR STL | REQUIRED RIGID FRAME SLIP CRITICAL SELF DRILLING SCREW SIMILAR SHORT LEG VERTICAL SLAB ON GRADE SQUARE STAINLESS STEEL STANDARD STIRRUPS STEEL |
| RE: REINF REQD RF SC SDS SIM SLV SOG SQ SS STD STIR STL SW | REQUIRED RIGID FRAME SLIP CRITICAL SELF DRILLING SCREW SIMILAR SHORT LEG VERTICAL SLAB ON GRADE SQUARE STAINLESS STEEL STANDARD STIRRUPS STEEL SHEAR WALL |
| RE: REINF REQD RF SC SDS SIM SLV SOG SQ SS STD STIR STL SW SYM T&B | REQUIRED RIGID FRAME SLIP CRITICAL SELF DRILLING SCREW SIMILAR SHORT LEG VERTICAL SLAB ON GRADE SQUARE STAINLESS STEEL STANDARD STIRRUPS STEEL SHEAR WALL SYMMETRIC TOP AND BOTTOM |
| RE: REINF REQD RF SC SDS SIM SLV SOG SQ SS STD STIR STL SW SYM T&B T/ | REQUIRED RIGID FRAME SLIP CRITICAL SELF DRILLING SCREW SIMILAR SHORT LEG VERTICAL SLAB ON GRADE SQUARE STAINLESS STEEL STANDARD STIRRUPS STEEL SHEAR WALL SYMMETRIC TOP AND BOTTOM TOP OF |
| RE: REINF REQD RF SC SDS SIM SLV SOG SQ SS STD STIR STL SW SYM T&B | REQUIRED RIGID FRAME SLIP CRITICAL SELF DRILLING SCREW SIMILAR SHORT LEG VERTICAL SLAB ON GRADE SQUARE STAINLESS STEEL STANDARD STIRRUPS STEEL SHEAR WALL SYMMETRIC TOP AND BOTTOM |
| RE: REINF REQD RF SC SDS SIM SLV SOG SQ SS STD STIR STL SW SYM T&B T/ TRANS TYP UNO | REQUIRED RIGID FRAME SLIP CRITICAL SELF DRILLING SCREW SIMILAR SHORT LEG VERTICAL SLAB ON GRADE SQUARE STAINLESS STEEL STANDARD STIRRUPS STEEL SHEAR WALL SYMMETRIC TOP AND BOTTOM TOP OF TRANSVERSE TYPICAL UNLESS NOTED OTHERWISE |
| RE: REINF REQD RF SC SDS SIM SLV SOG SQ SS STD STIR STL SW SYM T&B T/ TRANS TYP | REQUIRED RIGID FRAME SLIP CRITICAL SELF DRILLING SCREW SIMILAR SHORT LEG VERTICAL SLAB ON GRADE SQUARE STAINLESS STEEL STANDARD STIRRUPS STEEL SHEAR WALL SYMMETRIC TOP AND BOTTOM TOP OF TRANSVERSE TYPICAL |
| RE: REINF REQD RF SC SDS SIM SLV SOG SQ SS STD STIR STL SW SYM T&B T/ TRANS TYP UNO VERT W/ W/O | REQUIRED RIGID FRAME SLIP CRITICAL SELF DRILLING SCREW SIMILAR SHORT LEG VERTICAL SLAB ON GRADE SQUARE STAINLESS STEEL STANDARD STIRRUPS STEEL SHEAR WALL SYMMETRIC TOP AND BOTTOM TOP OF TRANSVERSE TYPICAL UNLESS NOTED OTHERWISE VERTICAL WITH WITHOUT |
| RE: REINF REQD RF SC SDS SIM SLV SOG SQ SS STD STIR STL SW SYM T&B T/ TRANS TYP UNO VERT W/ | REQUIRED RIGID FRAME SLIP CRITICAL SELF DRILLING SCREW SIMILAR SHORT LEG VERTICAL SLAB ON GRADE SQUARE STAINLESS STEEL STANDARD STIRRUPS STEEL SHEAR WALL SYMMETRIC TOP AND BOTTOM TOP OF TRANSVERSE TYPICAL UNLESS NOTED OTHERWISE VERTICAL WITH |

WELDED WIRE REINFORCEMENT

5. DESIGN DRAWINGS, SHOP DRAWINGS, AND CALCULATIONS FOR THE DESIGN AND FABRICATION OF ITEMS THAT ARE DESIGNED BY THE CONTRACTOR SHALL BEAR THE SEAL AND SIGNATURE OF AN ENGINEER REGISTERED IN THE APPROPRIATE STATE AND SHALL BE SUBMITTED TO THE ARCHITECT / ENGINEER PRIOR TO FABRICATION AND CONSTRUCTION. CALCULATIONS SHALL BE INCLUDED FOR ALL ..20 PSF / 300# CONNECTIONS TO THE STRUCTURE, CONSIDERING LOCALIZED EFFECTS ON ..100 PSF / 2.0 K STRUCTURAL ELEMENTS INDUCED BY THE CONNECTION LOADS. ITEMS THAT ARE DESIGNED BY THE CONTRACTOR SHALL BE DESIGNED TO RESIST THE LIVE LOADS INDICATED IN STRUCTURAL NOTES, DEAD LOAD, SELF WEIGHT, ANY ADDITIONAL LOADING INDICATED ON PLANS AND DETAILS, SNOW DRIFT, AND A NET WIND .. 22 PSF + DRIFT PER PLAN UPLIFT. THESE ITEMS DESIGNED BY THE CONTRACTOR SHALL INCLUDE ANY -- MIN UNIFORM ROOF SNOW LOAD (Pm):........... 22 PSF (NO DRIFT OR RAIN) RELEVANT TECHNICAL LITERATURE FROM THE MANUFACTURER, SUCH AS ICC-ES REPORTS DEMONSTRATING CODE COMPLIANCE.

> 6. FIELD ENGINEERED DETAILS DEVELOPED BY THE CONTRACTOR THAT DIFFER FROM OR ADD TO THE STRUCTURAL DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT AND ARE SUBJECT TO REVIEW AND APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD PRIOR TO RELEASE FOR FABRICATION AND CONSTRUCTION.

7. UNLESS DICTATED OTHERWISE BY THE CONTRACT DOCUMENTS, THE ENGINEER SHALL HAVE A MINIMUM OF 10 WORKING DAYS FROM RECEIPT OF SHOP DRAWINGS FOR REVIEW AND SHALL HAVE A MINIMUM OF 3 WORKING DAYS FOR RFI

8. SEE MATERIAL SPECIFIC SECTIONS IN THE GENERAL NOTES FOR REQUIRED SHOP DRAWINGS AND CALCULATIONS TO BE SUBMITTED.

SPECIAL INSPECTIONS:

STRUCTURAL DESIGN CRITERIA (2018 IBC AND ASCE 7-16):

2. LIVE LOADS [UNIFORM (PSF) / POINT LOADS (KIPS)]:

-- RAIN ON SNOW SURCHARGE (Prs)

-- SNOW LOAD IMPORTANCE FACTOR (Is):.........1.0

-- GROUND ELEVATION ABOVE SEA LEVEL......987 FT

-- SEISMIC IMPORTANCE FACTOR (Ie):.....1.25

-- MAPPED SPECTRAL RESP ACCEL (Ss / S1):.....0.1 / 0.068

-- SPECTRAL RESPONSE COEFF (Sds / Sd1):.....0.107 / 0.109

-- SEISMIC FORCE RESISTING SYSTEM:.....R=3, STEEL

OVERFLOWS) ARE PROVIDED. ROOF IS DESIGNED FOR LIVE LOAD INDICATED

1. DESIGN AND CONSTRUCTION SHALL CONFORM TO THE "INTERNATIONAL

REFER TO THE SPECIAL STRUCTURAL INSPECTION NOTES FOR ADDITIONAL

2. CONTRACTOR TO VERIFY ALL DIMENSIONS, ELEVATIONS AND EXISTING

CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO

3. IF DISCREPANCIES EXIST BETWEEN STRUCTURAL PLANS, ARCHITECTURAL

THE ARCHITECT AND/OR ENGINEER PRIOR TO PROCEEDING WITH THE WORK.

SUBCONTRACTOR SHALL PROVIDE A WRITTEN REQUEST FOR CLARIFICATION FROM

4. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE

SEQUENCING AND TO ENSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT

6. FABRICATORS AND SUPPLIERS SHALL CLEARLY NOTE AND HIGHLIGHT CHANGES

7. COLUMNS, BEAMS, JOISTS, OR TRUSSES SHALL NOT BE FIELD CUT OR TRIMMED

RESPONSIBILITY TO EXECUTE AND DETERMINE FINAL ERECTION PROCEDURES,

PARTS DURING ERECTION. THIS INCLUDES WHATEVER SHORING, SHEETING.

TEMPORARY BRACING, GUYING OR TIE DOWNS WHICH MIGHT BE NECESSARY.

5. THE STRUCTURE AND FOUNDATIONS ARE NOT DESIGNED FOR FUTURE

MADE IN SHOP DRAWINGS, WHICH DO NOT COMPLY WITH THE CONTRACT

8. HOLES, PIPES, SLEEVES, ETC. NOT SHOWN ON THE DRAWINGS MUST BE

DO NOT COINCIDE WITH EQUIPMENT SHOWN ON THE PLANS, COORDINATE

10. NO AREA OF THE STRUCTURE SHALL BE LOADED WITH CONSTRUCTION

12. DELEGATED DESIGN - DEFERRED SUBMITTALS SHALL BE SIGNED/ SEALED

SUBMIT THESE SHOP DRAWINGS AND CALCULATIONS SEALED BY A STRUCTURAL

ENGINEER LICENSED TO PRACTICE IN THE JURISDICTION OF THE PROJECT SHALL

SUBMIT COPIES OF DEFERRED SUBMITTALS TO BUILDING DEPARTMENT AFTER

1. GENERAL CONTRACTOR TO PROVIDE A SHOP DRAWING SUBMITTAL LOG AND

SUBMITTAL SCHEDULE ITEMIZING ALL PROPOSED SUBMITTALS FOR APPROVAL BY

2. ALL SHOP DRAWINGS SHALL BE CHECKED BY THE FABRICATOR AND APPROVED

DOCUMENTS, DIMENSIONAL ERRORS, COORDINATION ERRORS, OR OMISSIONS IN

SHOP DRAWINGS. EOR IS NOT RESPONSIBLE FOR ANY DELAYS CAUSED BY THESE

3. SHOP DRAWINGS SHALL INCLUDE CONNECTIONS AS WELL AS SIZE, SPACING,

4. ANY CHANGES TO THE STRUCTURAL DRAWINGS SHALL BE SUBMITTED TO THE

ENGINEER OF RECORD PRIOR TO RELEASE FOR FABRICATION AND CONSTRUCTION.

ARCHITECT AND ARE SUBJECT TO REVIEW AND APPROVAL OF THE STRUCTURAL

AND GRADE OF ALL MEMBERS AND MATERIALS. PLANS AND ANY DETAILING NECESSARY FOR DETERMINING FIT AND PLACEMENT SHALL ALSO BE INCLUDED.

BY THE GENERAL CONTRACTOR PRIOR TO SUBMITTAL TO THE STRUCTURAL

ENGINEER OF RECORD. SHOP DRAWING REVIEW BY ENGINEER IS LIMITED TO

VERIFYING GENERAL CONFORMANCE TO THE CONTRACT DOCUMENTS.

CONTRACTOR IS RESPONSIBLE FOR ANY CHANGES FROM THE CONTRACT

TYPICAL DETAILS MAY OR MAY NOT BE CUT / REFERENCED ON PLANS OR

BE FURNISHED TO THE ENGINEER OF RECORD FOR REVIEW. CONTRACTOR SHALL

13. TYPICAL DETAILS ARE SHOWN ON SHEETS DESIGNATED "S0XX". THE INCLUDED

MATERIALS OR EQUIPMENT THAT EXCEEDS FINAL DESIGN CRITERIA.

SUPPORTING MEMBERS (TYPICAL UNLESS NOTED OTHERWISE).

PRIOR TO SUBMITTAL FOR REVIEW. THESE INCLUDE:

A. STRUCTURAL STEEL CONNECTIONS

SECTIONS, BUT ARE TO BE USED AS APPLICABLE

STRUCTURAL ENGINEER OF RECORD.

REQUIREMENTS NOT BEING MET.

9. IF MECHANICAL AND ELECTRICAL EQUIPMENT SIZES, WEIGHTS, OR LOCATIONS

11. BEAMS, COLUMNS, WALLS AND FOOTING CENTERS SHALL BE CENTERED UNDER

REVIEWED BY THE ARCHITECT/ENGINEER BEFORE PLACEMENT THROUGH

FOR ANY REASON WITHOUT THE WRITTEN APPROVAL OF THE

PLANS, OTHER PLANS, OR SPECIFICATIONS, THE CONTRACTOR OR

BUILDING IS FULLY COMPLETED. IT IS SOLELY THE CONTRACTOR'S

BUILDING CODE, 2018 EDITION" AS AMENDED BY THE CITY OF LEE'S SUMMIT, MO.

DESIGN ASSUMES APPROPRIATE ROOF SLOPE AND DRAINAGE (INCLUDING

-- SNOW EXPOSURE FACTOR (Ce):...

-- BASIC WIND SPEED (3 SEC GUST):..

.....5.0 PSF

...117 MPH

..88 MPH

...1.0, EXPOSURE C

.1.1 (just above freezing)

..1.0 (for ¼ per foot roofs)

..13 K (ELF AND ASD)

...0.045

...8.31 IN/HR

...3.92 IN/HR

1. BUILDING OCCUPANCY RISK CATEGORY II.

-- GROUND LEVEL SLAB

-- GROUND SNOW LOAD (Pg) -- FLAT ROOF SNOW LOAD (Pf):

-- THERMAL FACTOR (Ct):.

ASD WIND SPEED, V(ASD)...

-- DIRECTIONALITY FACTOR (Kd) .

-- INTERNAL PRESSURE COEFF:.

-- SEISMIC DESIGN CATEGORY:..

-- SEISMIC RESPONSE COEFF (Cs):..

-- DESIGN BASE SHEAR:.

-- ANALYSIS PROCEDURE:.

15-MIN RAIN INTENSITY

STRUCTURAL GENERAL NOTES:

- SLOPE FACTOR (CS)...

-- WIND EXPOSURE:

5. EARTHQUAKE DESIGN DATA:

-- SITE CLASS:...

6. RAIN LOAD DATA:

REQUIREMENTS.

COMMENCING WORK.

EXPANSION.

DOCUMENTS.

ARCHITECT/ENGINEER.

STRUCTURAL MEMBERS.

ARCH/ENG REVIEW.

SUBMITTALS:

ADJUSTMENTS WITH THE ARCHITECT.

-- ROOF:.

ROOF SNOW LOAD:

4. WIND DESIGN DATA:

1. PROVIDE SPECIAL STRUCTURAL INSPECTIONS AND VERIFICATIONS BY A THIRD PARTY MEETING THE REQUIREMENTS OF CHAPTER 17 OF THE BUILDING CODE AND THE BUILDING OFFICIAL

2. SPECIAL INSPECTORS SHALL BE QUALIFIED AND FURNISH THEIR REPORTS IN A TIMELY MANNER TO THE CONTRACTOR, BUILDING OFFICIALS, ARCHITECT, AND/OR **FNGINFFR**

3. SHOULD INSPECTOR IDENTIFY ANY DISCREPANCY, THEY SHALL NOTIFY CONTRACTOR FIRST, AND THEN ARCH/ENGINEER IMMEDIATELY THEREAFTER IF CORRECTIVE ACTION IS NEEDED.

4. SPECIAL INSPECTIONS AS REQUIRED BY CODE: A. STEEL: SECTION 1705.2. AND AISC 360. PERIODIC OBSERVATIONS OF CONNECTION. ALL BRACED-FRAME CONNECTIONS. WELDERS & FIELD WELDING. B. CONCRETE: SECTION 1705.3 AND TABLE 1705.3 CONCRETE MATERIAL SAMPLING AND TESTING, REBAR OBSERVATIONS. TAKE SET OF (3) CYLINDERS FOR EVERY 50 C.Y., BUT NOT LESS THAN ONE SET OF SAMPLES PER DAY'S WORK AND PER MIX.

C. SOILS: SECTION 1705.6. FOUNDATION BEARING, EXCAVATION, FILL PLACEMENT. D. POST-INSTALLED ANCHORS: TABLE 1705.3

EARTHWORK AND FOUNDATIONS:

1. REFERENCE THE GEOTECHICAL INVESTIGATION PREPARED BY ALPHA OMEGA GEOTECH, INC DATED JUNE 7, 2024 (JOB NO. 240117 E). THE CONTRACTOR SHALL OBTAIN A COPY OF THIS REPORT AND FOLLOW ALL RECOMMENDATIONS WITHIN.

2. PERIMETER AND EXTERIOR FOOTINGS SHALL BEAR AT A MINIMUM OF 3'-0" BELOW ADJACENT GRADE.

3. ALL FOOTINGS SHALL BEAR ON FIRM NATIVE MATERIALS, COMPACTED OR ENGINEERED FILL CAPABLE OF SUPPORTING AN ALLOWABLE BEARING PRESSURE OF 2,500 PSF (3,000 PSF AT INVIDIVIDUAL COLUMN FOOTINGS) PER THE GEOTECHNICAL REPORT. DEEPEN FOOTINGS, AND REMOVE AND REPLACE UNACCEPTABLE SOILS WITH ENGINEERED FILL AS REQUIRED TO PROVIDE THIS MINIMUM DEPTH AND SUITABLE BEARING.

4. UNDERCUT THE PAD TO A DEPTH OF 24-INCHES BELOW BOTTOM OF FLOOR SLAB ELEVATION AND REPLACE WITH LOW-VOLUME-CHANGE MATERIALS PER THE

5. FILL PLACEMENT, COMPACTION, AND SOIL BEARING TESTS SHALL BE PERFORMED BY A GEOTECHNICAL ENGINEER PRIOR TO INSTALLING FOOTINGS TO ENSURE DESIGN ALLOWABLE BEARING VALUES AND SLAB SUBGRADE REQUIREMENTS ARE SATISFIED. IF ACTUAL SITE CONDITIONS DO NOT SATISFY THESE REQUIREMENTS. COORDINATE ADJUSTMENTS WITH ARCHITECT/ENGINEER/ GEOTECHNICAL ENGINEER

6. SURFACE WATER SHALL NOT BE ALLOWED TO STAND ADJACENT TO OR DRAIN TOWARDS THE FOUNDATION AND SLAB SUBGRADES UNDER ANY CIRCUMSTANCES. PAVEMENTS OR GRADED SOILS AT THE PERIMETER OF THE BUILDING, EXCEPT AS REQUIRED AT EXITS OR AS NOTED, SHALL BE SLOPED AWAY AT 5% OR 6" MIN FOR THE FIRST TEN FEET AND AS REQUIRED TO PROVIDE POSITIVE DRAINAGE.

7. FOOTINGS MAY BE POURED TO NEAT LINES OF EXCAVATIONS PROVIDING VERTICAL LINES OF EXCAVATIONS CAN BE MAINTAINED DURING CONCRETE PLACEMENT.

8. FOUNDATION WALL BACKFILL SHALL NOT BE UNBALANCED BY MORE THAN TWO FEET ON EITHER SIDE AT ANY TIME. BASEMENT WALL AND RESTRAINED RETAINING WALL BACKFILL SHALL NOT BE PLACED, UNLESS THE WALL IS ADEQUATELY BRACED. RETAINING WALL AND BASEMENT WALL BACKFILL SHALL BE FREE DRAINING GRANULAR BACKFILL ACCEPTABLE TO THE GEOTECHNICAL ENGINEER.

9. DO NOT PLACE CONCRETE UNLESS FOOTING EXCAVATIONS ARE FREE OF ALL WATER, FROST, ICE AND LOOSE SOIL. CONCRETE SHALL BE PLACED AS SOON AS POSSIBLE AFTER EXCAVATION SO THAT EXCESSIVE DRYING OF BEARING MATERIALS DOES NOT OCCUR. BEARING MATERIAL SHALL BE INSPECTED BY A QUALIFIED INDEPENDENT TESTING LAB PRIOR TO PLACEMENT OF CONCRETE.

CONCRETE REINFORCING STEEL:

SUPPORTS AT ALL FOOTINGS.

1. SUBMIT SHOP DRAWINGS FOR REBAR. ALL REINFORCING BARS SHALL MEET ASTM A615 GRADE 60.

2. ALL WELDED WIRE REINFORCEMENT (WWR) SHALL MEET ASTM A1064: LAP A MINIMUM OF 8" OR ONE FULL MESH, WHICHEVER IS GREATER.

3. REINFORCING BAR QUANTITIES SHOWN ARE FOR ESTIMATING PURPOSES ONLY. MAINTAIN MINIMUM CONCRETE PROTECTION OR COVER FOR REINFORCING AS

INDICATED, UNLESS NOTED OTHERWISE: 3" CLEAR WHERE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH GROUND.

- 2" CLEAR WHERE CONCRETE IS EXPOSED TO WEATHER OR IN CONTACT WITH GROUND BUT CAST AGAINST FORMS FOR BARS LARGER THAN #5. 1 1/2" CLEAR WHERE CONCRETE IS EXPOSED TO WEATHER OR IN CONTACT WITH GROUND BUT CAST AGAINST FORMS FOR BARS #5 OR SMALLER
- 3/4" CLEAR FOR SLABS, JOISTS AND WALLS NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND. 1 1/2" CLEAR FOR BEAMS AND COLUMNS NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND.
- 5. CONTRACTOR SHALL VERIFY THAT ALL REINFORCEMENT, SLAB DOWELS, INSERTS, SLEEVES AND EMBEDDED ITEMS ARE PROPERLY LOCATED AND RIGIDLY

SECURED PRIOR TO CONCRETE PLACEMENT, "WET STICKING" DOWELS WILL NOT BE ALLOWED. 6. REINFORCEMENT SHALL BE DETAILED IN ACCORDANCE WITH THE LATEST A.C.I. DETAILING MANUAL BY A QUALIFIED AND EXPERIENCED FIRM AND PERSON. PLACE AND SUPPORT REINFORCEMENT WITH ACCESSORIES: MAXIMUM SPACING - 48"

CENTERS (PLASTIC-TIPPED LEGS FOR EXPOSED SURFACES). USE 3" SBP

APPROPRIATE.

7. ALL STRUCTURAL ADHESIVE FOR REINFORCING SHALL BE SIMPSON SET-3G OR HILTI HIT-HY 200-R OR EQUIVALENT. ALL STRUCTURAL ADHESIVE SHALL BE INSTALLED PER THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS. SUBSTITUTIONS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL WITH

CAST IN PLACE CONCRETE:

APPROPRIATE ICC-ES EVALUATION REPORTS.

1. SUBMIT PROPOSED MIXED DESIGNS OF EACH TYPE FOR REVIEW. REQUIRED MINIMUM CONCRETE COMPRESSIVE STRENGTHS AT 28 DAYS:

- a. FOOTING AND GRADE BEAM CONCRETE... ..4000 PSI b. BASEMENT / FOUNDATION WALL CONCRETE... ...4000 PSI c. SLAB ON GRADE. ..4000 PSI
- 2. ALL CONCRETE MIX DESIGNS SHALL HAVE WATER TO CEMENT RATIOS LESS THAN 0.52 (0.45 FOR MOISTURE SENSITIVE FLOORING). WITH A MAXIMUM 60/40 FINE TO COARSE AGGREGATE RATIO. CONCRETE MIX DESIGNS THAT DO NOT CONFORM TO THE ABOVE STANDARD AND/OR CONTAIN WATER REDUCING ADMIXTURES SHALL BE SUBMITTED WITH APPROPRIATE TEST DATA PER A.C.I.. ALL CONCRETE SHALL BE IN CONFORMANCE WITH THE A.C.I. 301 STANDARD THAT IS REFERENCED IN THE BUILDING CODE AT THE TIME OF PERMITTING THE PROJECT..

3. EXTERIOR CONCRETE (FLOOR SLABS, WALLS, ETC) SHALL HAVE 6.5% (PLUS/MINUS 1.5%) ENTRAINED AIR.

- 4. CHAMFER ALL EXPOSED CONCRETE EDGES 3/4" (VERIFY WITH ARCHITECT).
- NO ALUMINUM SHALL BE EMBEDDED IN ANY CONCRETE.
- 6. NO CALCIUM CHLORIDE SHALL BE USED IN CONCRETE

7. THE DESIGN, CONSTRUCTION, AND SAFETY OF ALL FORMWORK IS THE RESPONSIBILITY OF THE CONTRACTOR

8. ALL CONCRETE IS REINFORCED UNLESS SPECIFICALLY NOTED AS UNREINFORCED. REINFORCE ALL CONCRETE NOT OTHERWISE SHOWN WITH THE SAME REINFORCING AS SIMILAR SECTIONS OR AREAS.

9. CONSTRUCTION JOINTS IN GRADE BEAMS, CONTINUOUS FOOTINGS, AND WALLS THAT DO NOT CHANGE DIRECTION SHALL BE SPACED NO GREATER THAN 60'-0". INTERMEDIATE CONTROL JOINTS SHALL BE SPACED AT 25'-0" MAX FOR WALLS. CONTROL JOINTS IN WALLS SHALL ALSO BE LOCATED 15'-0" FROM CORNERS AND AT CHANGES IN WALL THICKNESS

10. WHERE FRESH CONCRETE IS DEPOSITED AGAINST HARDENED CONCRETE (GREATER THAN 8 HRS OLD), CLEAN EXISTING SURFACE OF LAITANCE AND FOREIGN MATERIAL AND DAMPEN THE EXISTING SURFACE. IF REQUIRED, ROUGHEN EXISTING CONCRETE TO 1/4" AMPLITUDE.

11. SLABS ON GRADE SHALL BE 4" THICK MINIMUM ON 4" OF GRANULAR FILL. REINF SLAB WITH 6 X 6-W2.1xW2.1 WWR OR #3 BARS @ 18" OC EA WAY. PLACE REINF IN UPPER 1/3 OF SLAB THICKNESS. AT INTERIOR SLABS, A 10 MIL VAPOR BARRIER SHALL BE PLACED BETWEEN THE CONCRETE AND GRANULAR BASE AND CARE SHOULD BE TAKEN DURING CURING TO PREVENT SLAB CURLING. THIS NOTE SHALL BE TYPICAL UNLESS NOTED OTHERWISE

12. SAW CUT JOINTS OR KEYED CONSTRUCTION JOINTS IN SLABS ON GRADE SHALL BE SPACED TO DIVIDE THE SLAB INTO PANELS NOT TO EXCEED 225 SQUARE FEET. THE LONGER DIMENSION OF EACH PANEL SHALL NOT EXCEED THE SHORTER DIMENSIONS BY MORE THAN 40%. JOINTS SHALL BE LOCATED AT COLUMN CENTERLINES WHERE POSSIBLE. SPACING BETWEEN JOINTS SHALL NOT EXCEED 15 FEET. CONTRACTOR SHALL SUBMIT JOINT LAYOUT TO ARCHITECT FOR APPROVAL. REFER TO TYPICAL DETAILS.

13. REINFORCEMENT SHALL BE CONTINUOUS AND LAPPED PER TYPICAL DETAIL (2' -6" MIN) EXCEPT AS NOTED AND PROVIDE CORNER BARS OF SAME SIZE AND

AT 10" CENTERS EACH WAY, EACH FACE 15. MINIMUM REINFORCING AROUND CONCRETE WALL OPENINGS 2'-0" OR GREATER

14. MINIMUM CONCRETE WALL REINFORCING (WALL 10" OR GREATER) SHALL BE #5

(TYPICAL UNLESS NOTED): 2 - #5, EXTEND REINF 2'-0" PAST OPENINGS. PROVIDE 2-#5 x 4'-0" DIAGONAL BARS AT CORNERS

16. CONTRACTOR SHALL COORDINATE ALL CURING COMPOUNDS WITH FLOOR FINISH REQUIREMENTS TO ENSURE COMPATIBILITY.

17. FOUNDATION CONTRACTOR TO ENSURE PROPER ANCHOR ROD PROJECTION AND THAT ANCHOR RODS ARE HELD SECURELY IN POSITION PRIOR TO CONCRETE PLACEMENT. INSTALL ANCHOR RODS TO THE STRICT DIMENSIONAL TOLERANCES PER AISC REQUIREMENTS. STRUCTURAL STEEL COLUMN ANCHOR RODS SHALL BE SET WITH A RIGID TEMPLATE.

18. AGGREGATES AND/OR CONCRETE MIXES SHALL BE CERTIFIED TO BE FREE OF AND ELIMINATE DAMAGE OF CONCRETE DUE TO ALKALI-SILICA REACTION OR ALKALI-AGGREGATE REACTIONS WHEN EXPOSED TO SOILS AND/OR AN EXTERIOR ENVIRONMENT.

19. ALL CONCRETE MIX DESIGNS EXPOSED TO AN EXTERIOR ENVIRONMENT SHALL MEET THE REQUIREMENTS OF THE KANSAS CITY METRO MATERIALS BOARD (KCMMB) OR THE JOHNSON COUNTY CONCRETE BOARD (JCCB).

STRUCTURAL STEEL:

1. STRUCTURAL STEEL SHAPES AND PLATE MATERIAL REQUIREMENTS (TYPICAL UNLESS NOTED OTHERWISE):

- a. WIDE FLANGE SHAPES ASTM A992 (FY = 50 KSI MIN.) b. CHANNELS, ANGLES, AND PLATES: - ASTM A36 (FY = 36 KSI MIN)
- c. ROUND HSS ASTM A500, GR B (FY = 42 KSI)
- d. RECTANGULAR HSS ASTM A500, GR B (FY = 46 KSI)
- e. PIPE ASTM A53, GR B (FY = 35 KSI) f. ANCHOR RODS - ASTM F1554 (FY = 36 KSI MIN.)
- g. ADHESIVE ANCHORS SIMPSON SET-3G, HILTI HIT-HY 200, OR

BEEN DESIGNED USING ASD DESIGN METHODOLOGY.

2. STRUCTURAL STEEL SHALL BE NEW AND MEET THE 15TH EDITION A.I.S.C. "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS AND BRIDGES", AND THE "CODE OF STANDARD PRACTICES FOR STEEL BUILDINGS AND BRIDGES", EXCLUDING SECTION 4.4.1.B. STRUCTURAL STEEL THROUGHOUT THE PROJECT HAS

3. THE STRUCTURAL STEEL FABRICATOR SHALL BE AN AISC QUALITY CERTIFIED COMPANY FOR THE CATEGORY OF WORK IN THIS PROJECT OR PROVIDE A QUALITY ASSURANCE PLAN AND SPECIAL INSPECTIONS AS DEFINED IN THE CODE.

4. USE STANDARD AISC FRAMING CONNECTIONS WITH A325-N BOLTS, F436 WASHERS, AND A563 HEAVY-HEX NUTS AS REQUIRED, UNLESS NOTED OTHERWISE.

5. BOLTS IN MOMENT AND BRACED FRAME CONNECTIONS SHALL BE PRE-TENSIONED. ALL A490 BOLTS SHALL BE PRE-TENSIONED. OTHER BOLTED CONNECTIONS USING A325 BOLTS MAY BE SNUG-TIGHTENED, UNLESS NOTED

6. STEEL BEAMS SHALL BE FABRICATED WITH MILL CAMBER UP.

7. WELDING SHALL CONFORM TO THE CURRENT AND APPLICABLE AWS STANDARDS AND BE COMPLETED BY AN AWS CERTIFIED WELDER. ALL WELDS SHALL UTILIZE E70xx ELECTRODES. SHOP DRAWINGS SHALL SHOW FIELD WELDS, AS

a. AWS D1.1 - STRUCTURAL WELDING CODE - STEEL b. AWS D1.3 - STRUCTURAL WELDING CODE - SHEET STEEL 8. WELD SIZES SHALL BE INCREASED TO MEET THE REQUIRED EFFECTIVE THROAT WIDTH IF GAPS EXIST AT THE FAYING SURFACE.

9. NO COLUMN OR BEAM SPLICES, UNLESS CLEARLY INDICATED ON THE STRUCTURAL DRAWINGS. WILL BE ALLOWED WITHOUT WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.

10. SEE ARCHITECTURAL PLANS FOR FIREPROOFING & FINISHING REQUIREMENTS,

AND COORDINATE STEEL PRIMING & COATINGS ACCORDINGLY. 11. GROUT WHERE INDICATED ON PLANS AT BASE PLATES SHALL BE NON-METALLIC

NON-SHRINK WITH A MINIMUM COMPRESSIVE STRENGTH OF 6000 PSI AT 28 DAYS

CONFORMING TO ASTM C1107 12. ALL POST-INSTALLED ANCHORS WHERE NOTED SHALL BE MANUFACTURED BY SIMPSON STRONG-TIE OR HILTI, INC. AND INSTALLED PER MANUFACTURER'S SPECIFICATIONS. SUBSTITUTIONS SHALL BE SUBMITTED FOR REVIEW AND

APPROVAL WITH APPROPRIATE IC-ES EVALUATION REPORTS. 13. ALL STEEL AND ASSOCIATED FASTENERS NOT PROTECTED FROM WEATHER OR WHOLLY WITHIN A CONDITIONED SPACE (INCLUDING ALL MASONRY LINTELS) SHALL

BE HOT DIPPED GALVANIZED PER ASTM A123. 14. CONNECTION REQUIREMENTS: REACTIONS SHOWN ON THE DRAWINGS ARE ASD UNFACTORED ALLOWABLE

STRESS DESIGN METHOD, THAT SHALL NOT BE REDUCED FURTHER THAN SHOWN.

CAPACITIES ARE GREATER THAN THE REACTIONS INDICATED ON THE DRAWINGS

CONTRACTOR MAY OPT TO USE THE TYPICAL DETAILS SHOWN WHERE THE

CONNECTION DESIGN IS REQUIRED ELSEWHERE AS FOLLOWS:

- AT BRACED FRAMES AT AXIALLY LOADED BEAM CONNECTIONS
- AT MOMENT CONNECTIONS AT ALL CONDITIONS NOT COVERED BY THE TYPICAL STANDARD SHEAR
- CONNECTION AT ALTERNATIVE CONNECTION TYPES DESIRED BY FABRICATOR OR
- ERECTOR IF FIRST REQUESTED AND APPROVED BY THE EOR. STAIR FRAMING AND RAILINGS

PROHIBITED CONNECTIONS AND NOTES:

SINGLE-ANGLE SHEAR CONNECTIONS ARE PROHIBITED DOUBLE-ANGLE SHEAR CONNECTIONS ARE NOT PERMISSIBLE AT CONNECTIONS WITH AXIAL LOADS OR AT BRACED FRAMES

ADDITIONAL REQUIREMENTS: USE STANDARD AISC FRAMING CONNECTIONS WITH A325-N BOLTS, F436 WASHERS, AND A563 HEAVY-HEX NUTS AS REQUIRED, UNLESS NOTED

- OTHERWISE ALL CONNECTIONS REQUIRE A MINIMUM OF 2 BOLTS AND A MINIMUM
- CAPACITY OF 10 KIPS. FOR STEEL BEAMS 10-FT OR LESS IN LENGTH, IF REACTION ON PLAN IS NOT SHOWN ASSUME 10 KIPS (ASD).
- FOR BEAMS GREATER THAN 10-FT IN LENGTH, IF REACTION ON PLAN IS NOT SHOWN THE REACTION SHALL BE ASSUMED TO BE ONE HALF THE TOTAL ALLOWABLE UNIFORM CODE FOR THE BEAM SPAN FROM AISC STEEL CONSTRUCTION MANUAL UNLESS THE VALUE IS OBTAINED FROM THE ENGINEER OF RECORD.

SUBMIT SIGNED/SEALED SHOP DRAWINGS AND CALCULATIONS FOR THE DESIGN OF ALL STEEL CONNECTIONS, AND A LETTER SEALED BY AN ENGINEER REGISTERED IN THE STATE OF THE PROJECT STATING THAT THEY HAVE REVIEWED THE STEEL SHOP DRAWINGS FOR CONFORMANCE TO THE DESIGN REQUIREMENTS.

15. CONTRACTOR IS RESPONSIBLE FOR PERFORMING ALL FIELD VERIFICATION PRIOR TO PRODUCTION OF SHOP DRAWINGS OR FABRICATION OF STRUCTURAL ELEMENTS. ARCHITECT / ENGINEER WILL RETURN "REJECTED" ANY SUBMITTAL REQUESTING FIELD VERIFICATION OF EXISTING CONDITIONS OR DIMENSIONS.

OPEN WEB STEEL BAR JOISTS:

1. OPEN-WEB STEEL JOISTS SHALL BE ENGINEERED AND MANUFACTURED BY AN SJI-CERTIFIED COMPANY TO CONFORM TO THE CURRENT SJI SPECIFICATIONS AND SJI REQUIREMENTS.

2. SUBMIT SHOP DRAWINGS FOR JOIST. DESIGN, DETAIL AND INSTALL JOIST-BRIDGING IN ACCORDANCE WITH SJI REQUIREMENTS. PROVIDING X-BRIDGING AT LOCATIONS WHERE HORIZONTAL BRIDGING IS DISCONTINUOUS AND INTERRUPTED. INSTALL ADDITIONAL ROW OF BOTTOM CHORD BRIDGING AT EACH END OF JOISTS AT THE FIRST BOTTOM CHORD PANEL POINTS AS REQUIRED FOR NET WIND UPLIFT

3. BOLT OR WELD ALL JOISTS TO BEARINGS PER SJI GUIDELINES, INCLUDING BOTTOM CHORD EXTENSIONS AND CONNECTIONS AT COLUMN LINES PER SJI AND PER OSHA REQUIREMENTS. MIN JOIST SEAT WELDS SHALL BE AS FOLLOWS: K-SERIES = (2) 1/8" x 2-1/2" LONG; LH 02-06 = (2) 3/16" x 3" LONG; LH/DLH 07-17 = (2) 1/4" x

4. REINFORCE WEBS OF JOISTS WITH ADDITIONAL ANGLES FIELD-WELDED PER THE TYPICAL DETAILS AT ALL LOCATIONS WHERE POINT LOADS OCCUR BETWEEN PANEL POINTS, INCLUDING AT EDGES AND CORNERS OF CURBS & FRAMES SUPPORTING ROOF TOP EQUIPMENT.

5. PROVIDE EXTENDED ENDS FOR SUPPORT OF ROOF DECK EDGE ANGLES THROUGHOUT THE PROJECT AS MAY BE REQUIRED. PROVIDE SPECIAL SLOPED BEARING SEATS WHERE NEEDED BASED ON ROOF SLOPES SHOWN IN ACCORDANCE WITH SJI.

6. WHERE SPECIAL "SP" JOISTS ARE INDICATED, DESIGN JOISTS FOR THE FOLLOWING, BUT IN NO CASE SHALL CHORD SIZES BE LESS THAN INDICATED ON THE FRAMING PLANS:

A. UNIFORM DEAD LOAD OF 15 PSF IN ADDITION TO SELF WT. B. UNIFORM ROOF LIVE, SNOW, AND RAIN ON SNOW LOADS INDICATED IN STRUCTURAL GENERAL NOTES.

C. SNOW DRIFTS AROUND PARAPETS AS INDICATED ON DRIFT LOADING D. WIND NET UPLIFT PER WIND UPLIFT PLAN (ASD).

E. SPECIAL HANGING POINT LOADS AND ROOF EQUIPMENT LOADS AS DENOTED ON THE FRAMING PLAN.

METAL DECK:

1. SUBMIT SHOP DRAWINGS FOR ALL METAL DECKING. A. ROOF DECK: 1.5B 22 GA (FY = 50 KSI MIN), PAINTED, MIN. FASTENING PATTERN: 36/4 WITH 3 SIDELAPS PER SPAN (UNO)

2. STEEL DECK MANUFACTURER SHALL BE A MEMBER OF THE STEEL DECK INSTITUTE (S.D.I.). ALL METAL DECK TO BE ERECTED PER MANUFACTURER REQUIREMENTS AND SPECIFICATIONS

3. DECK SHALL BE WELDED AT SUPPORTS WITH 5/8" DIA PUDDLE WELDS MIN. AND SIDELAP CONNECTIONS SHALL BE #10 TEK SCREWS MIN (UNO).

4. ALL METAL DECK HAS BEEN DESIGNED TO BE CONTINUOUS OVER 2 SPANS

MINIMUM AND SHALL BEAR 2" MINIMUM ON STEEL SUPPORTS. FOR ONE OR TWO

SPAN CONDITIONS CONTRACTOR SHALL PROVIDE SHORING AS REQUIRED OR FURNISH THICKER GAUGE DECK TO SUPPORT ALL APPLICABLE LOADS. CONTRACTOR TO SUBMIT ALTERNATES FOR APPROVAL. 5. PROVIDE REINFORCING CHANNELS, STANDARD CLOSURES, CANT STRIPS, SUMP

PANS, AND OTHER ACCESSORIES AS REQUIRED FOR A PROPERLY FINISHED JOB,

REQUIRES REINFORCING PER SDI. HOLES LARGER THAN 12" (ROUND OR SQUARE)

EVEN IF NOT SPECIFICALLY SHOWN ON THE STRUCTURAL DRAWINGS. PROVIDE BEARING ANGLES WELDED TO COLUMNS AS REQUIRED TO SUPPORT METAL DECK. 6. ONE OPENING PER DECK SHEET, 6" OR LESS IN DIAMETER, IS PERMISSIBLE. HOLES LARGER THAN 6" IN DIAMETER OR MORE THAN ONE HOLE PER DECK SHEET

REQUIRE A STEEL FRAME 7. OPENINGS IN ROOF DECK TO BE FRAMED WITH L6x4x5/16 (LLV) ANGLE. EXTEND ANGLES TO STRUCTURAL SUPPORTS, BLOCK VERTICAL LEGS AND FIELD WELD. SEE TYPICAL DETAIL FOR ADDITIONAL INFORMATION.

COLD FORMED STEEL FRAMING NOTES:

OTHER WALLS.

1. SUBMIT SHOP DRAWINGS AND CALCULATIONS PER THE SUBMITTAL SECTION REQUIREMENTS. SHOP DRAWINGS SHALL INCLUDE PLAN AND SECTION DETAILS TO SHOW LAYOUT, SPACINGS, SIZES, THICKNESSES, AND TYPES OF COLD-FORMED STEEL FRAMING. IN ADDITION, SHOP DRAWINGS SHALL INCLUDE ALL FASTENING, ANCHOR DETAILS. SUPPLEMENTAL FRAMING, STRAPPING, BRACING, BRIDGING, CONNECTION DETAILS. AND ATTACHMENTS TO ADJOINING WORK

CFS DESIGN CRITERIA: -- TOP OF WALL VERTICAL DEFLECTION TO UNDERSIDE OF PRIMARY STRUCTURE

..MIN (½". L/360) -- EXTERIOR WALLS: WIND PRESSURE PER BUILDING DESIGN CRITERIA;H/600 FOR WALLS BRACING MASONRY; H/360 FOR WALLS SUPPORTING TILE OR METAL PANEL; H/240 FOR ALL OTHER WALLS -- INTERIOR WALLS: 5 PSF HORIZONTAL PRESSURE;H/600 FOR WALLS BRACING

MASONRY; H/360 FOR WALLS SUPPORTING TILE OR METAL PANEL; H/240 FOR ALL

LIGHT GAUGE FRAMING MEMBERS SHALL HAVE THE FOLLOWING MINIMUM MATERIAL PROPERTIES: FY = 33 KSI FOR 18 GA AND LIGHTER MEMBERS, FY = 50 KSI FOR ALL DIAGONAL STRAP BRACING AND FOR 16 GA AND HEAVIER MEMBERS. ALL

CFS SUPPLIER SHALL INCLUDE AN ALLOWANCE (2% OF CFS BID PACKAGE) FOR MISC CLIPS, CONNECTORS, AND ANGLES TO ADDRESS ANY ADDITIONAL CFS ITEMS NEEDED DURING THE SHOP DRAWING REVIEW AND CONSTRUCTION PROCESS.

MATERIALS, CONNECTORS, FASTENERS SHALL BE GALVANIZED

2. ALL DESIGN, FABRICATION, AND ERECTION SHALL BE IN CONFORMANCE WITH AISI "SPECIFICATIONS FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL

3. ALL EXTERIOR OR LOAD BEARING INTERIOR STUDS SHALL BE 600S162-43 (6" DEEP 18 GA) AT 16 INCHES ON CENTER MIN, UNLESS NOTED: REFER TO PLANS.

4. MINIMUM GAUGE OF STRUCTURAL STUDS SHALL BE 43 mils (18 GAUGE), UNLESS

5. TRACKS SHALL BE SECURELY ANCHORED TO THE SUPPORTING STRUCTURE TO PROPERLY TRANSFER IMPOSED LOADS. MINIMUM GAUGE OF TRACKS SHALL BE 43 mils (18 GAUGE). DEFLECTION TRACKS AT EXTERIOR WALL SHALL BE 16 GA

6. PROVIDE WALL STUD BRIDGING FOR EACH STUD AS RECOMMENDED BY THE MANUFACTURER. MAXIMUM SPACING SHALL BE 4'-0" CENTERS.

7. ALL FRAMING COMPONENTS SHALL BE CUT SQUARELY FOR ATTACHMENTS TO PERPENDICULAR MEMBER. MEMBERS SHALL BE HELD POSITIVELY IN PLACE UNTIL PROPERLY FASTENED.

8. NOTCHES OR SPLICES IN ANY STRUCTURAL STUDS WILL NOT BE PERMITTED.

9. DO NOT NOTCH, DRILL OR CUT ANY HOLES IN LOAD BEARING STUDS FOR ELECTRICAL OR MECHANICAL EQUIPMENT: USE EXISTING FABRICATED HOLES.

10. ALL WELDING SHALL BE PERFORMED BY WELDERS EXPERIENCED IN LIGHT GAUGE STEEL FRAMING WORK. TOUCH UP ALL WELDS WITH GALVANIZE COATING. 11. SCREWS IN LIGHT GAUGE FRAMING SHALL BE INSTALLED WITH MINIMUM EDGE

DISTANCES OF 1/2" AND MINIMUM SPACING BETWEEN SCREWS OF 3/4". 12. WHERE BACK-TO-BACK STUD COLUMNS ARE USED, ATTACH WITH #10 SCREWS @ 12" OC MAX, UNO.

13. LATERAL BRACING MUST BE IN PLACE IN EACH DIRECTION BEFORE ANY LOAD IS APPLIED TO THE WALLS & LEFT IN PLACE UNTIL THE WORK IS PERMANENTLY

NON-LOAD-BEARING COLD FORMED STEEL FRAMING NOTES:

1. METAL STUD MANUFACTURERS GENERALLY RECOMMEND HORIZONTAL BRIDGING OR STRAPPING TO BE PROPERLY INSTALLED AT 5 FT TO 6 FT OC, MECHANICALLY ATTACHED TO EACH STUD TO PREVENT DAMAGE DURING CONSTRUCTION, EVEN IF ONE SIDE OR BOTH SIDES ARE TO BE SHEATHED WITH RIGID FACING MATERIALS.

2. WHEN RIGID FACING MATERIALS ARE NOT ATTACHED TO EITHER SIDE, SUCH AS ABOVE CEILINGS, HORIZONTAL BRIDGING OR STRAPPING AT EACH FACE SHALL BE INSTALLED

3. WHERE THE TOP OF THE STUD WALLS TERMINATE AGAINST PRIMARY STRUCTURAL FRAMING, A "DEFLECTION TRACK" SHOULD BE USED TO ALLOW FOR VERTICAL MOVEMENT. ONE ROW OF THE RECOMMENDED HORIZONTAL BRIDGING SHALL BE PROPERLY INSTALLED BY MECHANICAL ATTACHMENTS TO EACH STUD AS CLOSE TO THE TOP AS POSSIBLE. ANY TEMPORARY SCREWS FROM THE TOP DEFLECTION TRACK TO THE METAL STUDS SHALL BE REMOVED AS SOON AS POSSIBLE TO ALLOW VERTICAL DEFLECTION OF THE PRIMARY FRAMING AND TO PREVENT DAMAGE TO THE STUD WALL. METAL STUDS SHOULD NEVER BE ATTACHED DIRECTLY TO HORIZONTAL STRUCTURAL FRAMING SYSTEMS WITHOUT A DEFLECTION TRACK OR VERTICALLY SLOTTED.

RTU CURBS:

REVIEW

1. MECHANICAL ROOFTOP EQUIPMENT SUPPLIER SHALL SUPPLY A STRUCTURAL SUPPORT CURB (AND/OR ADAPTER) FOR THE PLENUM. OF THE SPECIFIED HEIGHT.

AS SHOWN ON THE MECHANICAL DRAWINGS. - DESIGN OF THE CURB AND ADAPTER IS A DELEGATED DESIGN SUBMITTAL EQUIPMENT SUPPLIER SHALL ENGAGE AN ENGINEER LICENSED IN THE STATE OF THE PROJECT TO DEVELOP A DESIGN FOR THE CURB AND ADAPTER. DESIGN SHALL CONSIDER ALL CODE REQUIRED GRAVITY AND WIND LOADS. THE DESIGN SHALL INCLUDE ALL FASTENERS AND CONNECTORS REQUIRED TO ANCHOR THE CURB TO THE ROOF STRUCTURE. SUBMIT SIGNED AND SEALED ANALYSIS CALCULATIONS, DESIGN AND SHOP DRAWINGS TO MECHANICAL AND STRUCTURAL ENGINEER FOR

2. CURB SHALL BE FABRICATED OF A MINIMUM OF 14 GA GALVANIZED STEEL.

3. CURBS SHALL BE INSULATED

S

CONSTRUCTION

8234 Robinsen's Summit, Missou

Overland Park, KS 662842025

stand-sei.com

President & CEO

Kevin Campbell

Senior Architect

Email:

8807 Monrovia Street

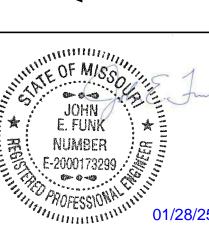
Lenexa, Kansas 66215

Phone: 913.322.8882

913.322.8886

kevin@dev-inc.com

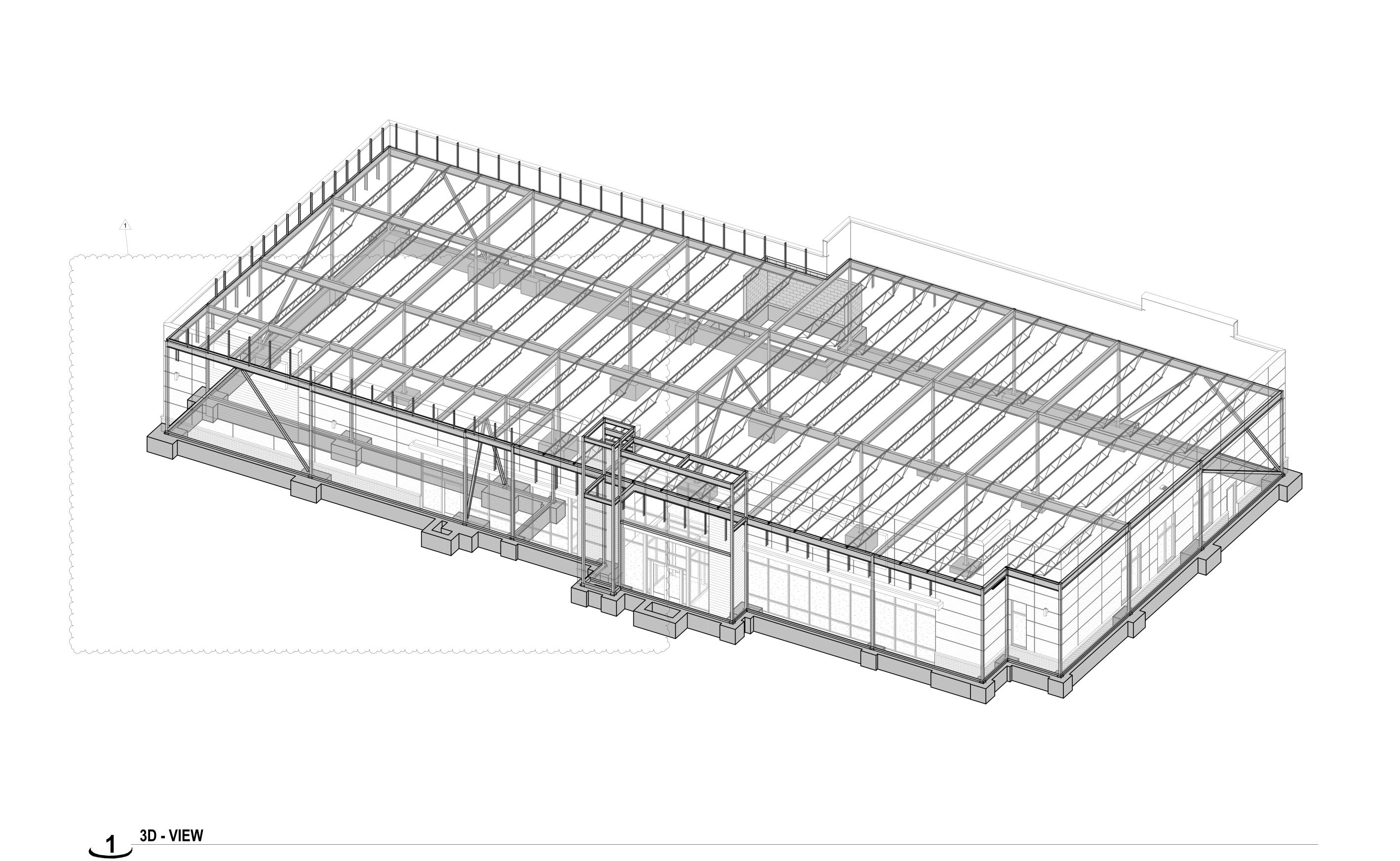
ne information contained herein without the written conse



PROJECT NO. 231206 01/28/2025 REVISION DATE

SHEET NUMBER

STRUCTURAL GENERAL NOTES



CONSTRUCTION 8234 Robinson Missouri
Overland Park, K97/198/2025
913-214-2169
stand-sei.com

Dev Anand President & CEO

Kevin Campbell

Senior Architect

8807 Monrovia Street Lenexa, Kansas 66215

Phone: 913.322.8882

Fax: 913.322.8886 Email: kevin@dev-inc.com prepared under his direct supervision as an instrument

Work of the Architect. Any reproduction, use, or disclosure of the information contained herein without the written consent of the Architect is strictly prohibited.

COMPLY WITH all laws, codes, ordinances and regulations with authorities having jurisdiction and with requirements of the Landlord, if applicable.

of service and is intended for use only on this project. All Drawings, Specifications, ideas and designs, including the

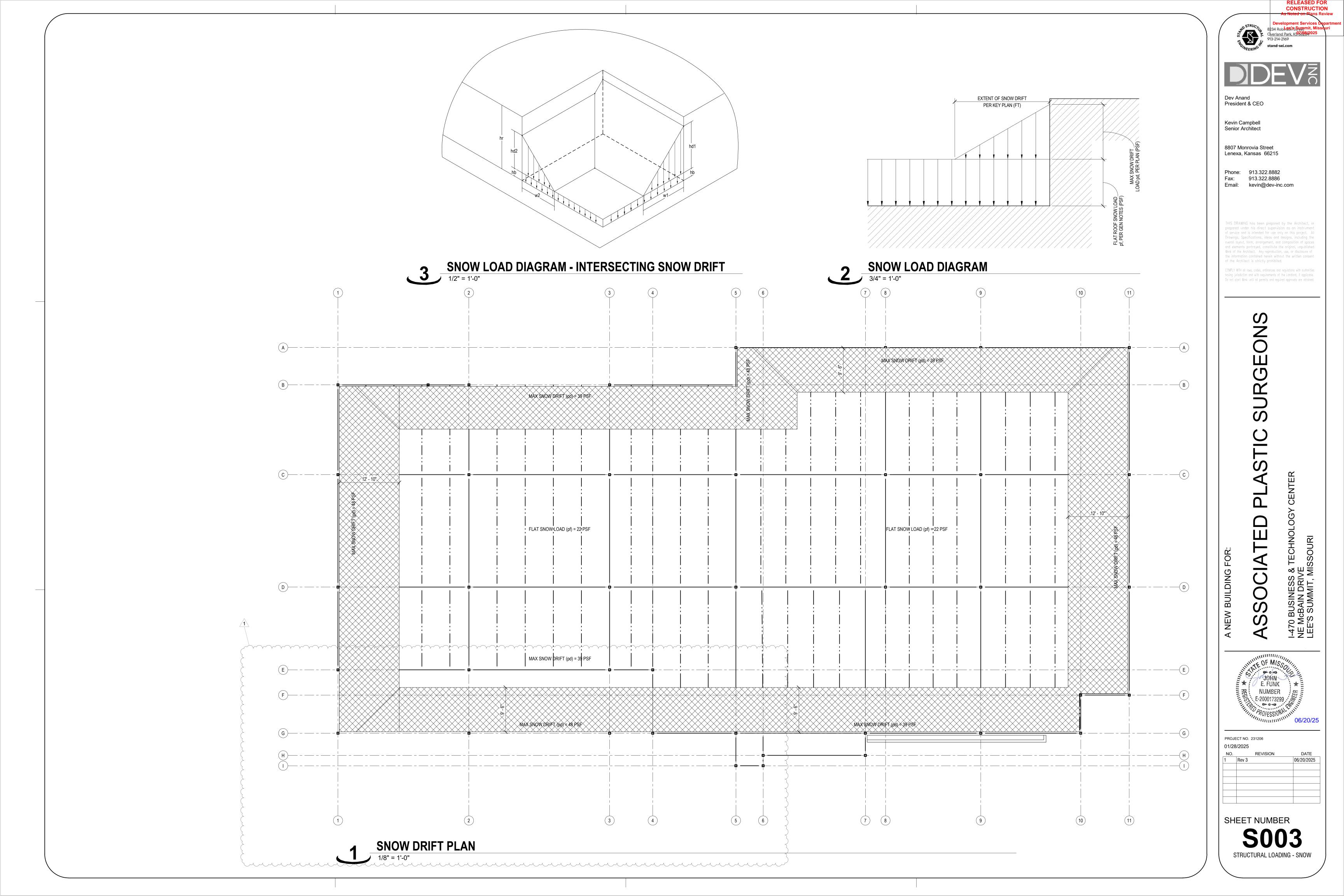
Do not start Work until all permits and required approvals are obtained.

SURGEONS STIC ASSOCIATED

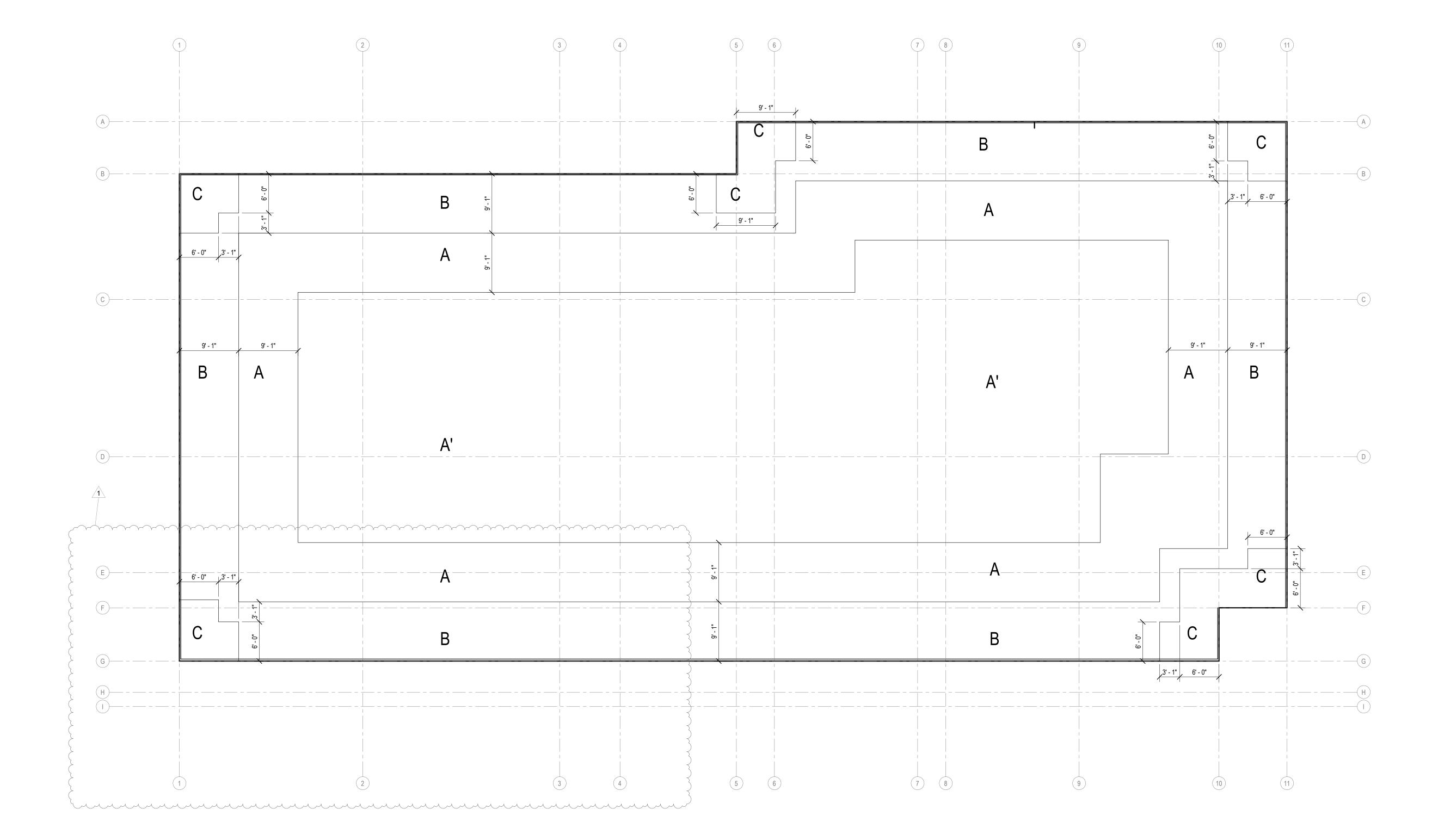
PROJECT NO. 231206 01/28/2025 DATE 06/20/2025

SHEET NUMBER

STRUCTURAL 3D VIEW



| C&C WIND LOADING PRESSUES | | | | | | | |
|---------------------------|-----------|-----------|---------------------|--------|--------|--|--|
| | | | ALLOWABLE REDUCTION | | | | |
| ZONE | POS (PSF) | NEG (PSF) | 100 SF | 200 SF | 500 SF | | |
| Δ' | 16 | 16 | 1 | 1 | 1 | | |







Dev Anand President & CEO

Kevin Campbell Senior Architect

8807 Monrovia Street Lenexa, Kansas 66215

Phone: 913.322.8882 Fax: 913.322.8886 Email: kevin@dev-inc.com

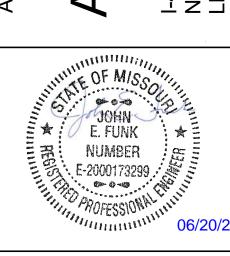
prepared under his direct supervision as an instrument of service and is intended for use only on this project. All Drawings, Specifications, ideas and designs, including the overall layout, form, arrangement, and composition of spaces Work of the Architect. Any reproduction, use, or disclosure of the information contained herein without the written consent of the Architect is strictly prohibited.

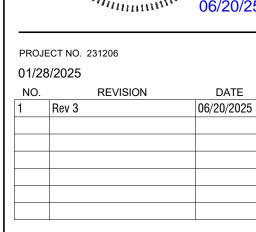
COMPLY WITH all laws, codes, ordinances and regulations with authorities having jurisdiction and with requirements of the Landlord, if applicable.

Do not start Work until all permits and required approvals are obtained.

SURGEONS STIC

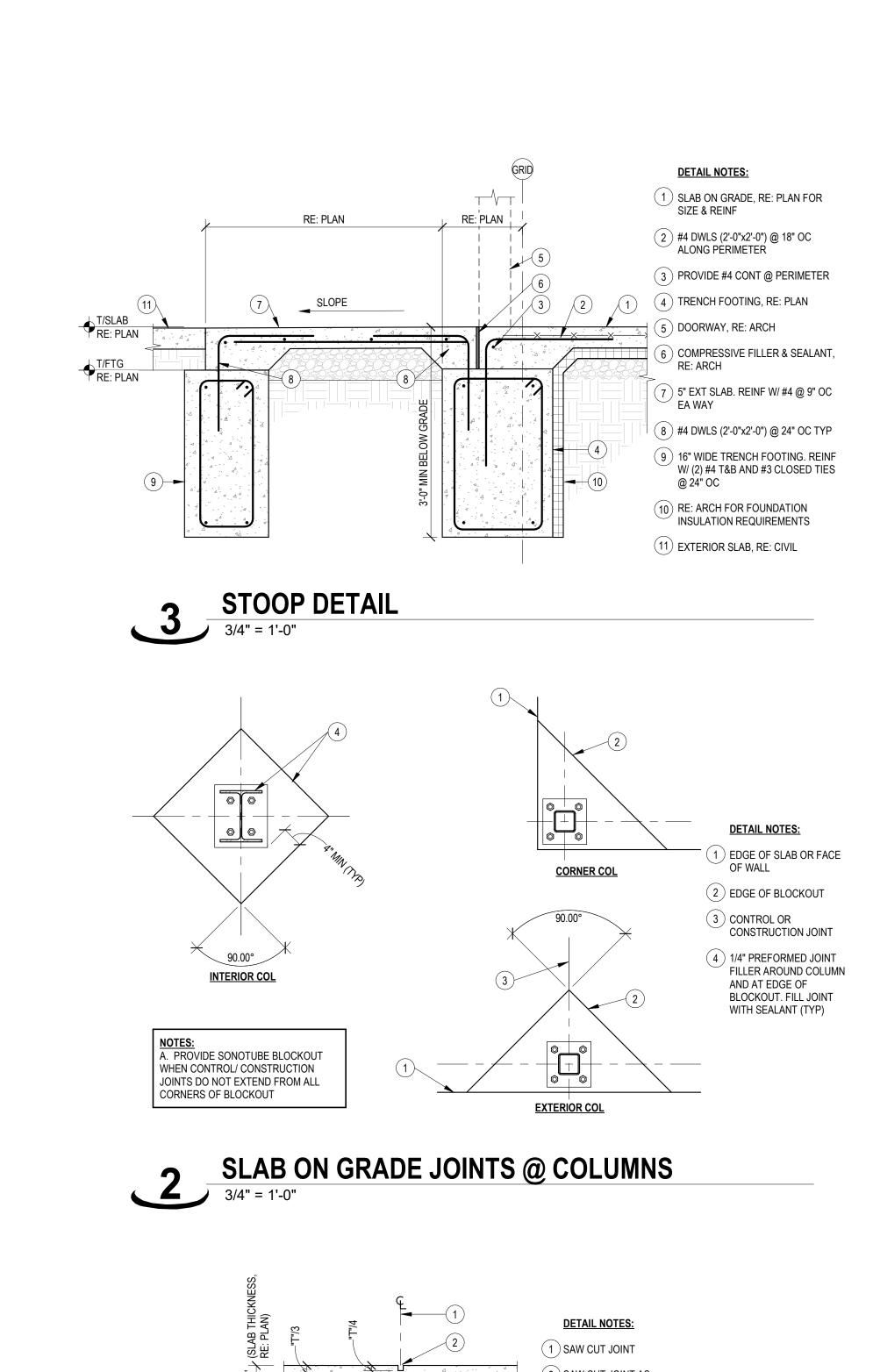
ASSOCIATED

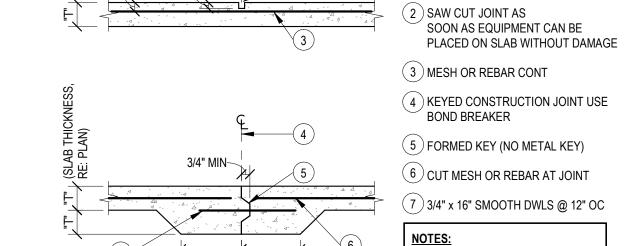




SHEET NUMBER

STRUCTURAL LOADING - WIND





A. THIS DETAIL MAY BE USED IN LIEU OF SAW CUT JOINT

SLAB ON GRADE CONTROL JOINTS

3/4" = 1'-0"

the information contained herein without the written consent having jurisdiction and with requirements of the Landlord, if applicable. Oo not start Work until all permits and required approvals are obtained.

CONSTRUCTION

8234 Robinson Summit, Misson Overland Park, K97/98/2025
913-214-2169
stand-sei.com

Dev Anand President & CEO

Kevin Campbell Senior Architect

8807 Monrovia Street

Lenexa, Kansas 66215

Phone: 913.322.8882

Fax: 913.322.8886

Email: kevin@dev-inc.com

SURGEONS STIC

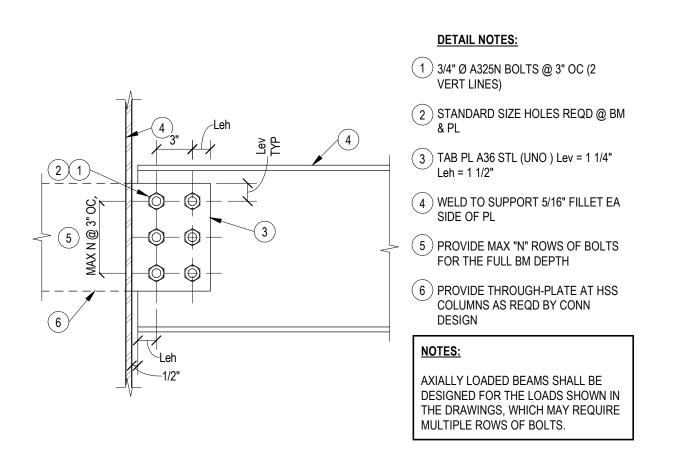
ASSOCIATED

JOHN E. FUNK NUMBER A E-2000173299

PROJECT NO. 231206 01/28/2025 REVISION

SHEET NUMBER

TYPICAL DETAILS - CONCRETE



BEAM AXIAL LOAD SHEAR PLATE 1 1/2" = 1'-0"

FIELD WELD @

DETAIL NOTES: 1) 3" TYP EXCEPT AS RECOMMENDED BY AISC FOR W8 & SMALLER BEAMS

(2) FACE OF BEAM WEB, COL FLG, COL WEB, OR EMBED PLATE

OR FOR LARGER BEAMS

3) 3/8" TAB PL WIDTH = 2 x "Leh"+1/2" DEPTH AS REQD

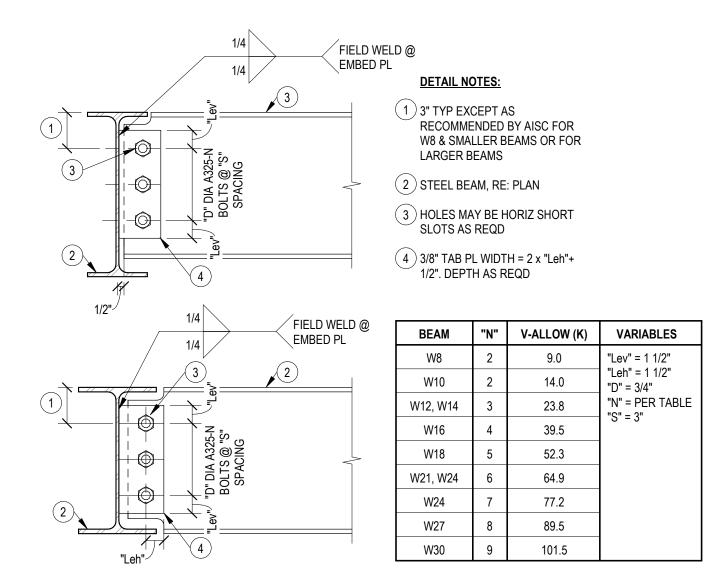
(4) STEEL BEAM, RE: PLAN

(5) HOLES MAY BE HORIZ SHORT

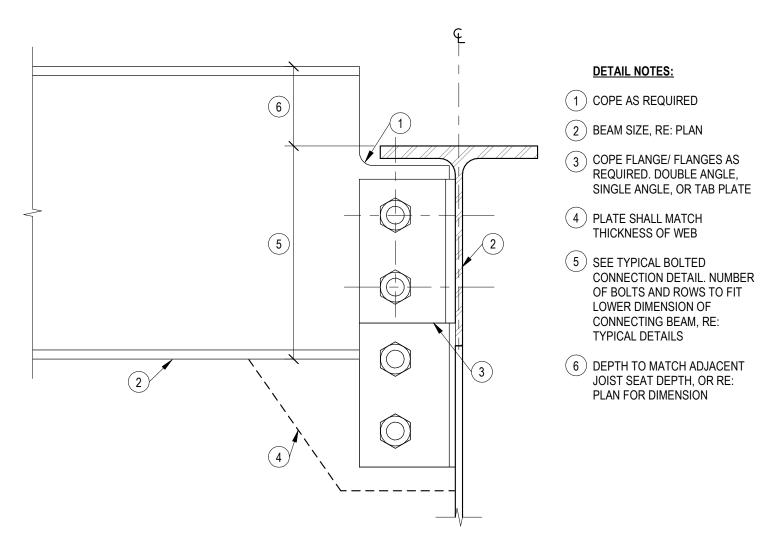
| SLOTS AS REQD | | | | | | |
|---------------|-----|-------------|------------------------------|--|--|--|
| BEAM | "N" | V-ALLOW (K) | VARIABLES | | | |
| W8 | 2 | 9.0 | "Lev" = 1 1/2" | | | |
| W10 | 2 | 14.0 | "Leh" = 1 1/2" "D" = 3/4" | | | |
| W12, W14 | 3 | 23.8 | "N" = PER TABLE "S" = 3" | | | |
| W16 | 4 | 39.5 | 3 - 3 | | | |
| W18 | 5 | 52.3 | | | | |
| W21, W24 | 6 | 64.9 | | | | |
| W24 | 7 | 77.2 | | | | |
| W27 | 8 | 89.5 | | | | |
| W30 | 9 | 101.5 | | | | |

SHEAR TAB CONN 1 1/2" = 1'-0"

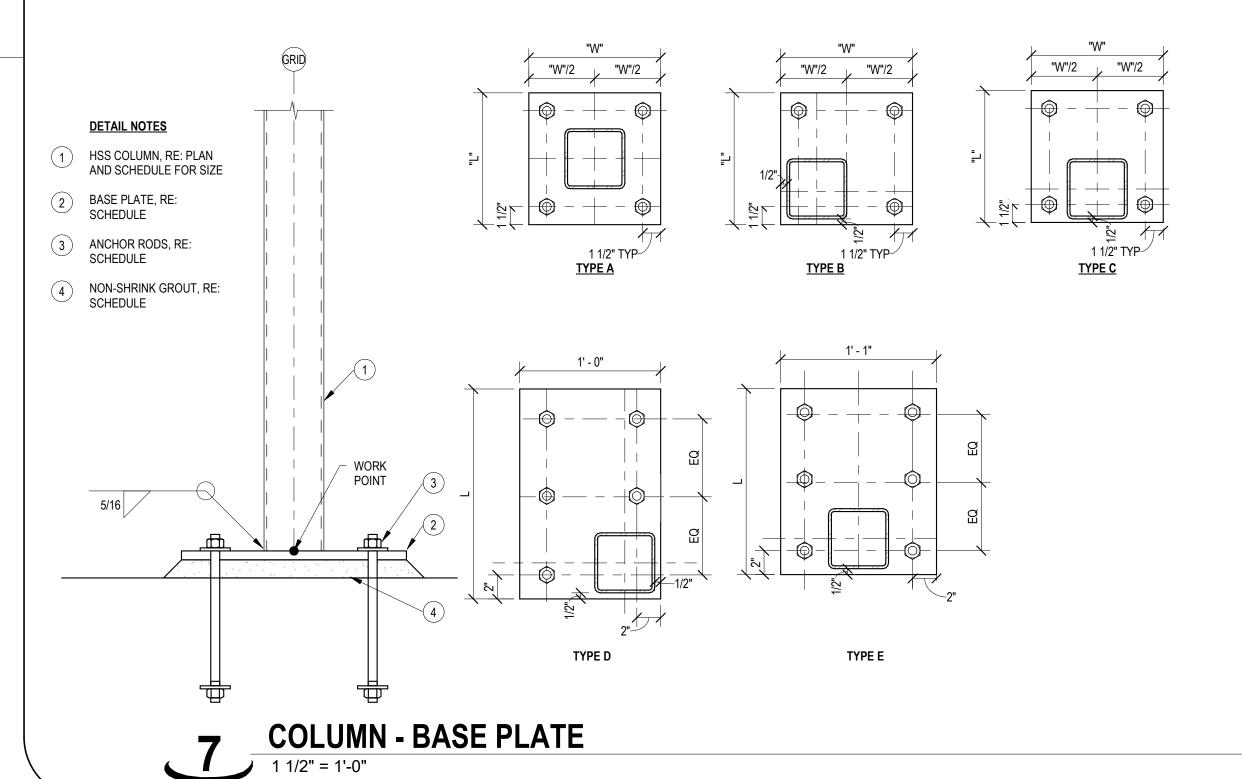
| SCHEDULE - BASEPLATE | | | | | | | | |
|----------------------|-------------------|---------------------------------|--------------------|----------------------|--------------------|--|--|--|
| TYPE MARK | BASEPLATE TYPE | BASEPLATE DIMENSIONS [WxLxT] | ANCHOR ROD DIA. | ANCHOR ROD EMBEDMENT | GROUT THICKNESS | | | |
| BP-1 | Α | 3/4X11X11 | 3/4 | 10 | 1 1/2 | | | |
| BP-2 | В | 3/4X11X11 | 3/4 | 10 | 1 1/2 | | | |
| BP-3 | С | 3/4X11X11 | 3/4 | 10 | 1 1/2 | | | |
| BP-4 | D | 3/4X11X18 | 1 | 18 | 1 1/2 | | | |
| BP-5 | E | 3/4X12X18 | 1 | 18 | 1 1/2 | | | |

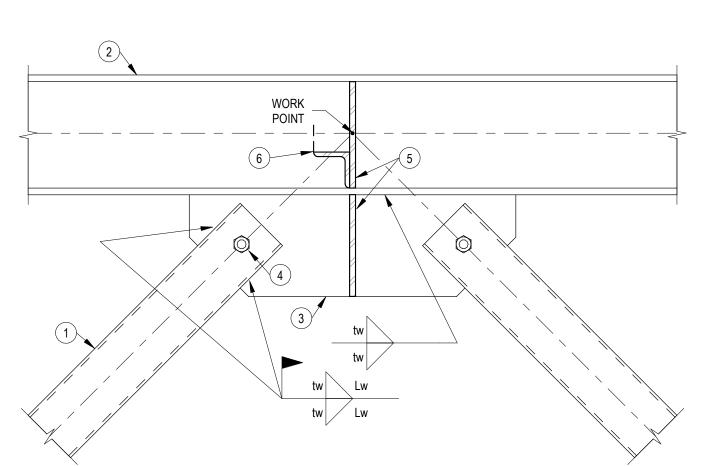


6 SHEAR TAB CONN - COPED 1 1/2" = 1'-0"

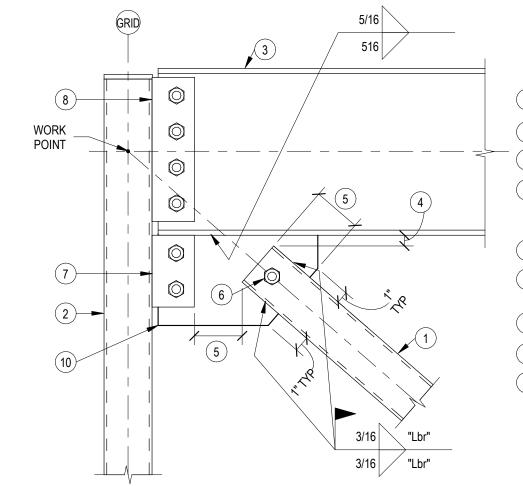


OFFSET TOP AND BOT BEAM COPE CONN NTS





HSS BRACE - BEAM MIDSPAN CONN
1 1/2" = 1'-0"



DETAIL NOTES:

NOTE: CONNECTION DETAILING

MINIMUMNS. FABRICATOR'S ENGR

AND NOTES SHOWN ARE

TO PROVIDE FINAL DESIGN

DETAIL NOTES

) HSS BRACE, RE: PLAN FOR SIZE

(2) STEEL BEAM, RE: PLAN FOR SIZE

& LENGTH AS REQD

(4) ERECTION BOLT AS REQD

BY CONNECTION DESIGN

HSS4x4

HSS5x5

HSS6x6

(6) L3x3x3/16 KICKER TO ADJACENT

tw, WELD Lw, WELD

THICKNESS

5/16"

5/16"

- WELD THICKNESS AND LENGTH

REQD FOR CONN DESIGN - INCREASE WELD THICKNESSES

SHOWN ARE MINIMUMS; INCREASE AS

SHOWN BY THE OVERSIZE OF THE

(3) 3/8" THICK GUSSET PL (A36), WIDTH

5 FULL DEPTH STIFFENER AS REQD

1) HSS BRACE, RE: BRACE ELEVATIONS

(2) HSS COLUMN, RE: PLAN AND SCHEDULE

(3) STEEL BEAM, RE: PLAN

(4) 1" MIN DETAIL GUSSET TO MINIMIZE THE SIZE. ONE OF THE TWO DIMENSION SHOWN WILL CONTROL THE MIN DIMENSION SHOWN

(5) "Lbr" + (2 x WELD THICKNESS)

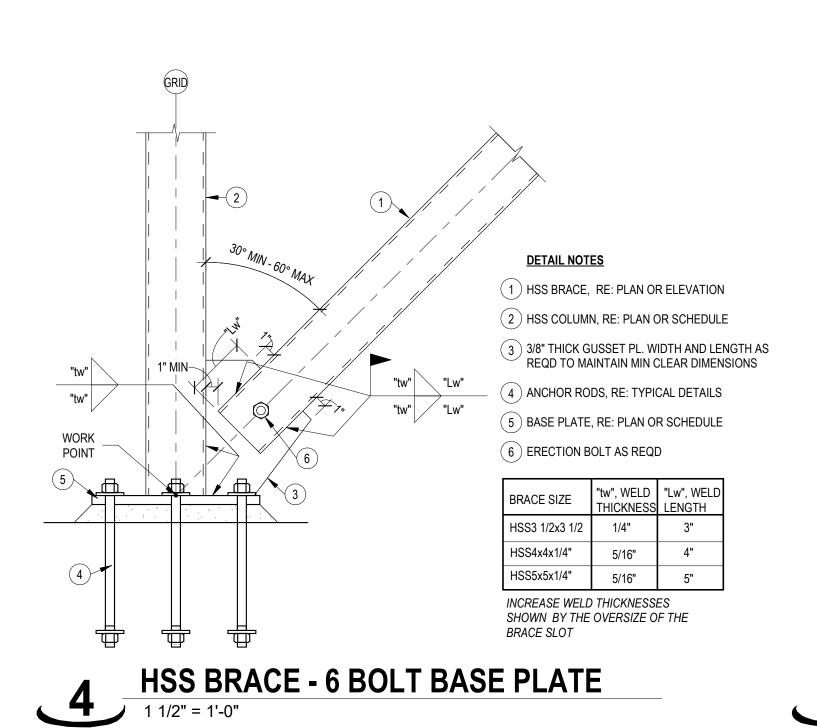
(6) AT CONTRACTOR OPTION PROVIDE BOLT FOR AN ERECTION AID

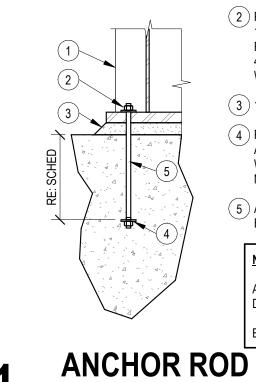
(7) (2) BOLT SHEAR TAB PER TYPICAL DETAILS

(8) BEAM CONNECTION PER TYPICAL DETAILS

(9) 1/2" A36 GUSSET

HSS BRACE - ROOF BEAM TO COLUMN CONN





DETAIL NOTES:

(1) COL AND BASE PLATE, RE: PLAN & SCHEDULE

2 PROVIDE OVERSIZED HOLES IN BASE PLATE AND 1/4" PL WASHER WITH HEAVY HEX NUTS ON ANCHOR RODS. WELD WASHERS TO BASE PLATE 1" MIN ALL 4 SIDES. USE 2"x2" WASHERS @ 3/4" AR & 3"x3" WASHERS @ 1" AR.

(3) 1 1/2" MIN NON-SHRINK NON-METALLIC GROUT

4) PROVIDE EITHER HEADED ANCHOR RODS, OR ALTERNATIVELY PROVIDE 3" SQ x 1/4" PL WASHER WITH HEAVY HEX NUT. TACK WELD WASHER AND NUT TO ANCHOR ROD

(5) ANCHOR ROD PER BASEPLATE SCHEDULE. RODS TO EXTEND 1/2" MIN THRU NUTS TOP AND BOT

A. ACCOUNT FOR GROUT THICKNESS WHEN DETERMINING BOTTOM OF BASE PLATE ELEVATION

B. ANCHOR RODS SHALL BE F1554 GR. 36 UNO

Phone: 913.322.8882 913.322.8886 Email: kevin@dev-inc.com

CONSTRUCTION

8234 Robins Summit, Miss Overland Park, K97/98/2025 913-214-2169

Dev Anand

President & CEO

Kevin Campbell

Senior Architect

8807 Monrovia Street

Lenexa, Kansas 66215

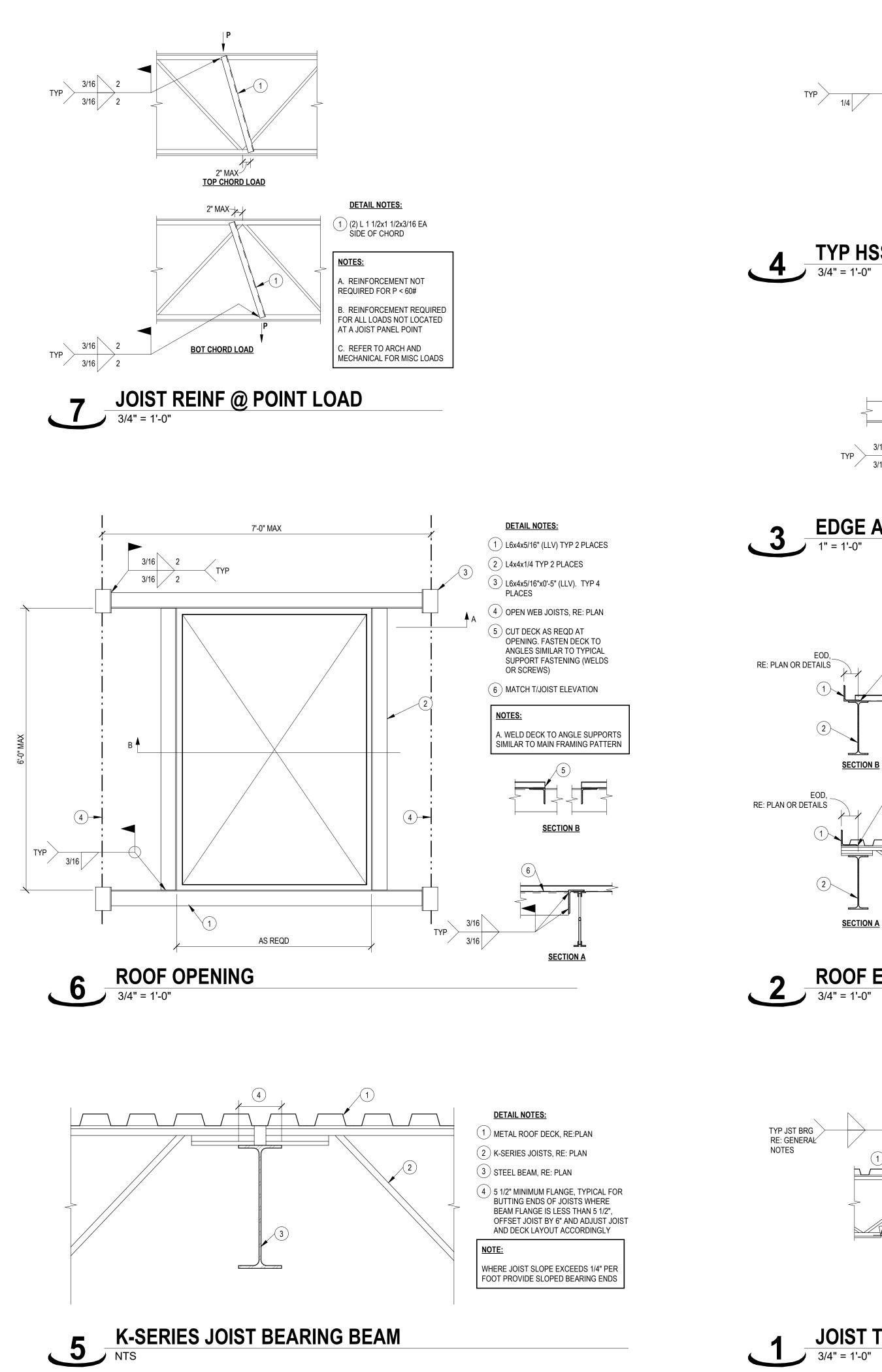
SURGEONS

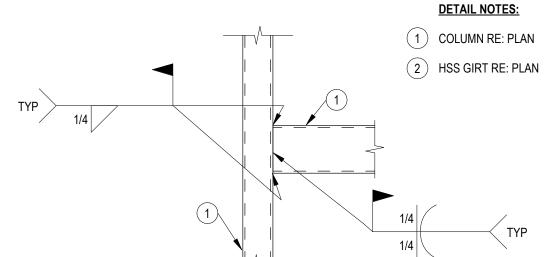
JOHN E. FUNK NUMBER E-2000173299

PROJECT NO. 231206 01/28/2025 REVISION

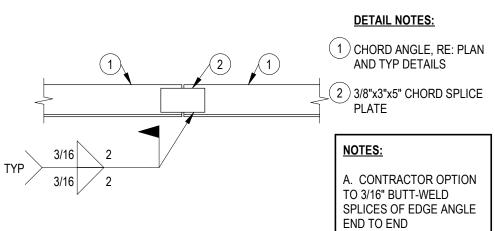
SHEET NUMBER

TYPICAL DETAILS - STEEL



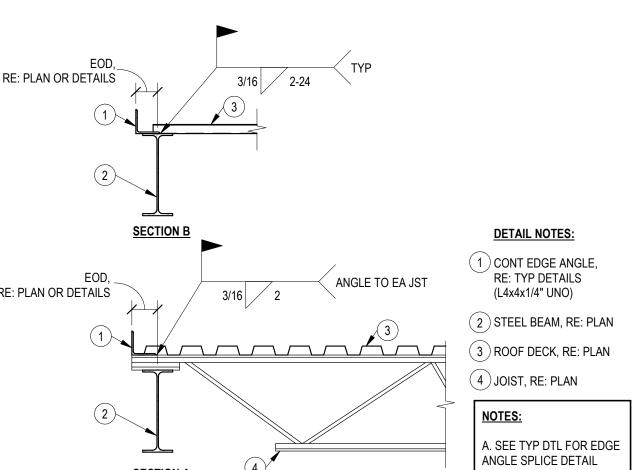


TYP HSS TO HSS CONN3/4" = 1'-0"



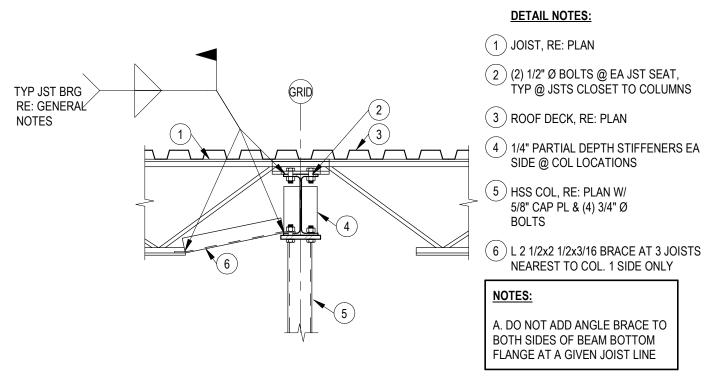
EDGE ANGLE SPLICE

1" = 1'-0"



ROOF EDGE ANGLE

3/4" = 1'-0"



JOIST TO COLUMN CONN

SURGEONS STIC ASSOC

CONSTRUCTION

Development Services Separation of the Services

Dev Anand President & CEO

Fax:

Kevin Campbell Senior Architect

8807 Monrovia Street Lenexa, Kansas 66215

Phone: 913.322.8882

913.322.8886 Email: kevin@dev-inc.com

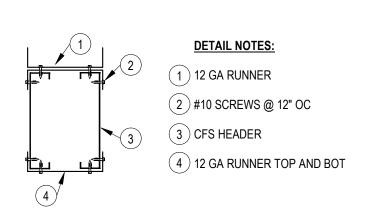
aving jurisdiction and with requirements of the Landlord, if applicable.

JOHN E. FUNK NUMBER 5 E-2000173299

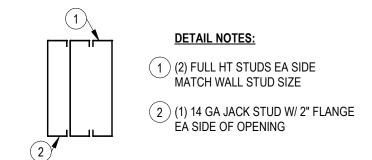
PROJECT NO. 231206 01/28/2025 REVISION DATE

SHEET NUMBER

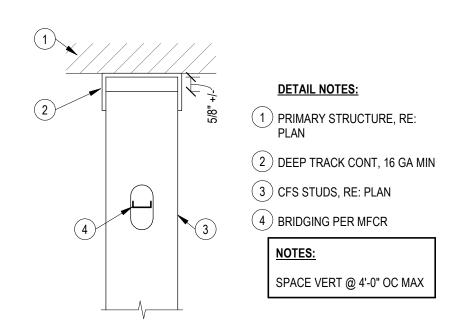
TYPICAL DETAILS - STEEL



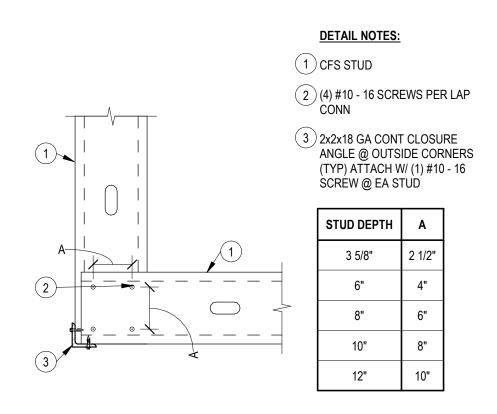
CFS BOX HEADER CONN



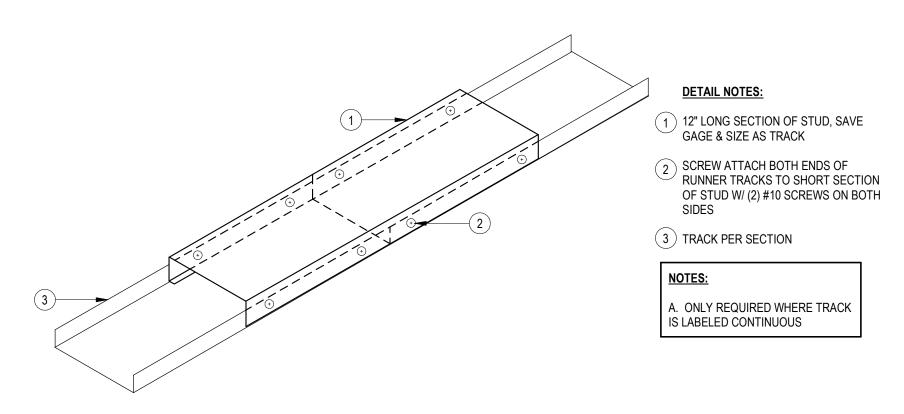
CFS BUILT-UP JAMB 1 1/2" = 1'-0"



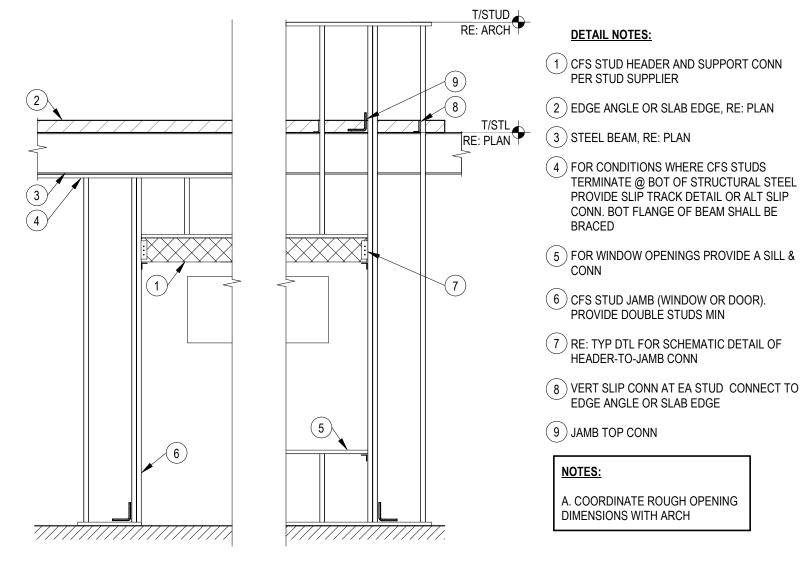
CFS T/STUD SLIP CONN 3/4" = 1'-0"



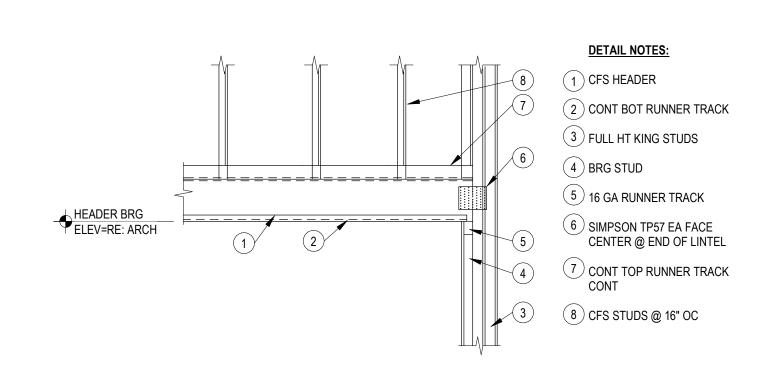
CFS STUDS CORNER CONN 1 1/2" = 1'-0"



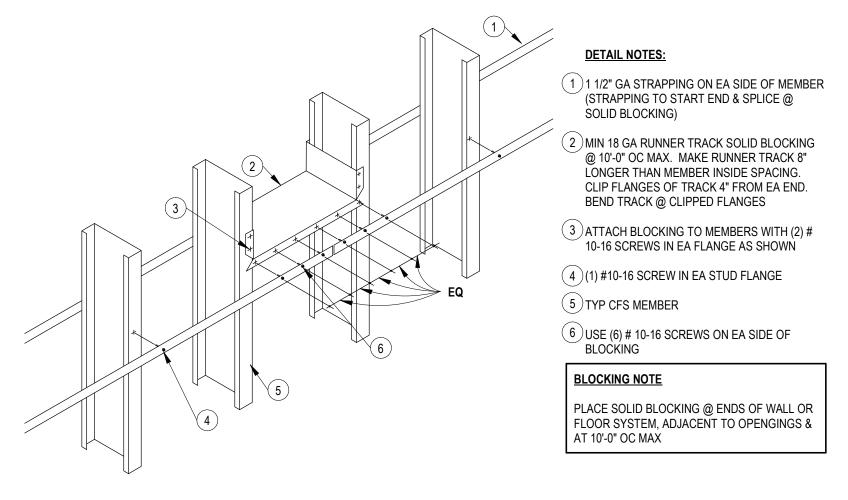
8 TYPICAL TRACK SPLICE
3" = 1'-0"



CFS STUDS @ STEEL BEAM ELEV 3/8" = 1'-0"

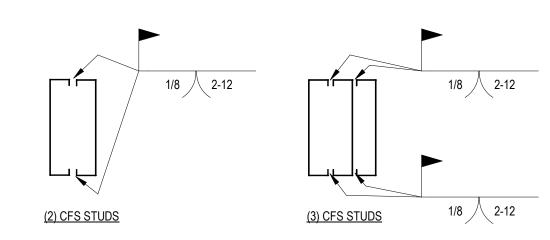


6 CFS BOX HEADER ELEV 1/2" = 1'-0"

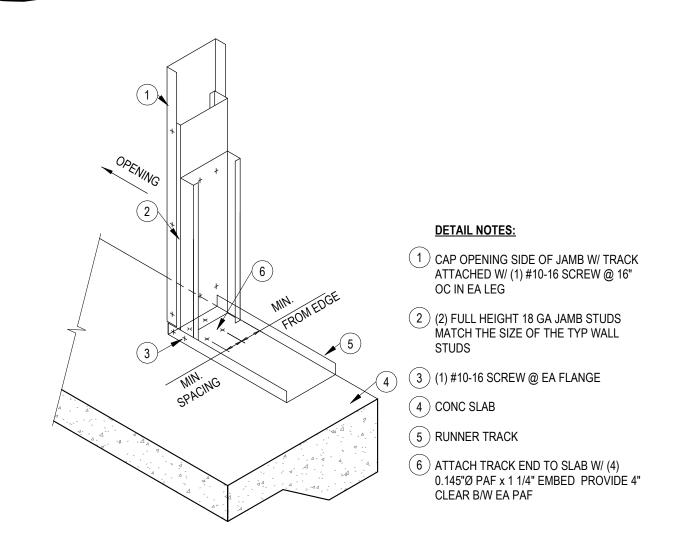


CFS STUD STRAP & BLOCKING

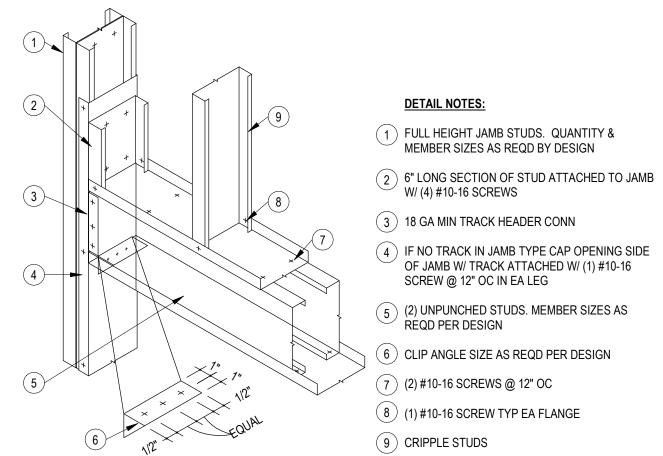
3/4" = 1'-0"

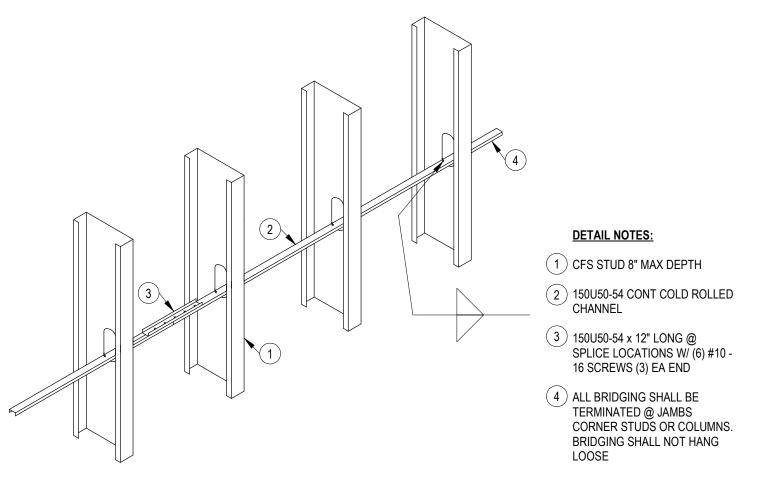


CFS BUILT-UP STUD COLUMNS



CFS SILL CONN @ OPENINGS 3/4" = 1'-0"





CFS STUD BRIDGING 3/4" = 1'-0"

8234 Robinson's Summit, Misson Overland Park, K9769842025 913-214-2169

CONSTRUCTION

Dev Anand President & CEO

Kevin Campbell Senior Architect

8807 Monrovia Street Lenexa, Kansas 66215

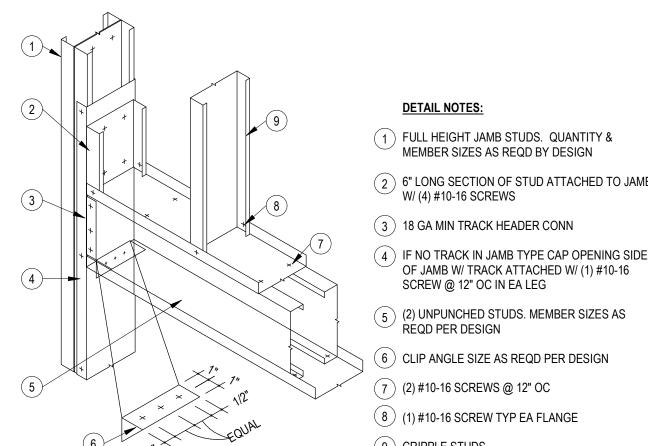
Phone: 913.322.8882 913.322.8886

Email: kevin@dev-inc.com

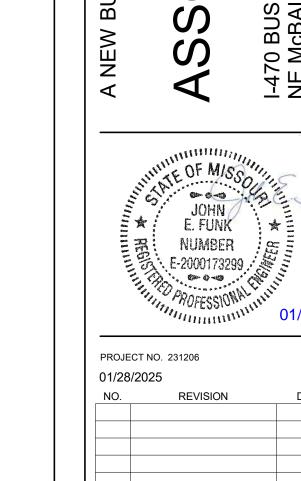
not start Work until all permits and required approvals are obtained

STIC

SURGEONS



CFS JAMB STUD CONN



SHEET NUMBER

TYPICAL DETAILS - CFS

B. SEE ARCHITECTURAL DRAWING FOR DETAILS & DIMENSIONS NOT SHOWN. C. REFER TO S0xx FOR TYPICAL DETAILS. D. TOP OF SLAB ELEVATION = 100'-0" UNO WHICH EQUALS FFE 997.00 PER CIVIL

> Dev Anand President & CEO

Kevin Campbell Senior Architect

8807 Monrovia Street Lenexa, Kansas 66215

Phone: 913.322.8882 913.322.8886 Email: kevin@dev-inc.com

(12) REMOVE EXISTING GUSSET PLATE FROM EXISTING BRACE LOCATION

E. TOP OF TRENCH FOOTING ELEVATION = 99'-4" UNO. THE BOTTOM OF ALL EXTERIOR FOOTINGS

SHALL BE 3'-0" MIN BELOW GRADE, DEEPEN FOOTINGS AS REQUIRED. GRADE IS GENERALLY 6"

F. SPREAD FOOTINGS DENOTED ON PLAN BY "Fx.x". REFER TO SCHEDULE ON THIS SHEET FOR

H. STEEL COLUMNS ARE DENOTED ON PLAN AS "Cx.x". REFER TO SCHEDULE ON THIS SHEET FOR

BELOW FINISH FLOOR ELEVATION (COORDINATE WITH CIVIL).

G. PROVIDE BLOCKOUTS IN SLAB FOR COLUMNS PER TYPICAL DETAIL

1 4" CONCRETE SLAB ON GRADE. REINF W/ 6x6 W2.1xW2.1 WWR. RE:GENERAL

NOTES GRANULAR FILL, VAPOR BARRIER AND JOINTING REQUIREMENTS

(2) 16" WIDE x 3'-0" DEEP TRENCH FOOTING. REINF W/ (2) #5 CONT TOP & BOT & #3

COLUMN SIZE, BASEPLATE TYPE, AND BASEPLATE DIMENSIONS.

SHEET NOTES:

FOR APPLICABILITY.

SIZE AND REINFORCING.

PLAN NOTES:

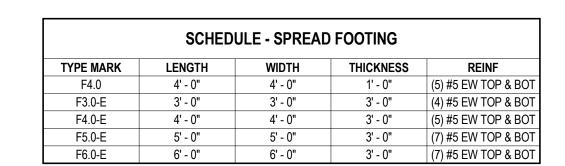
TIES @ 48" OC

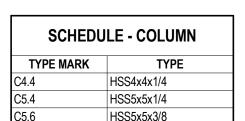
S

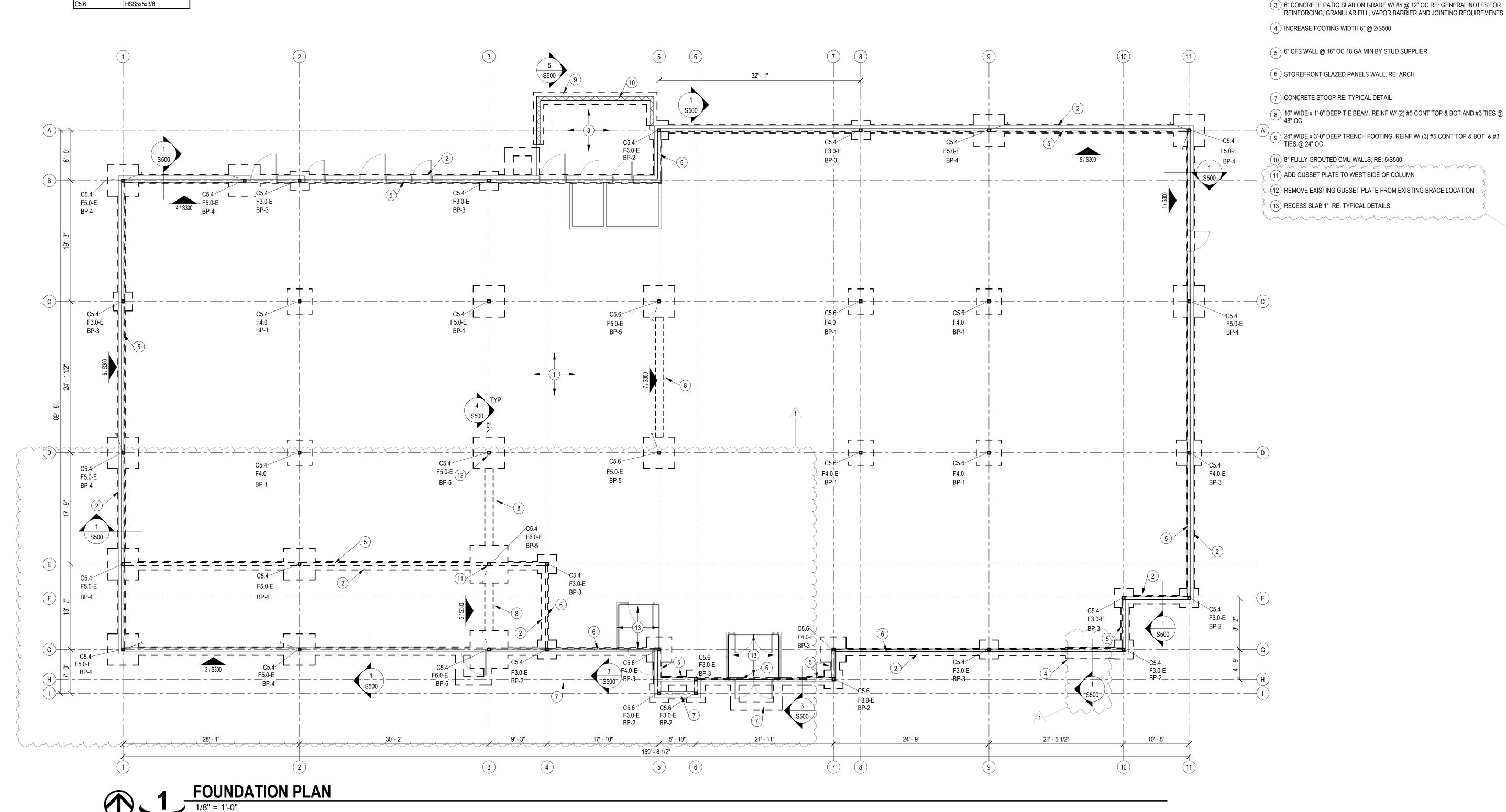
PROJECT NO. 231206 01/28/2025

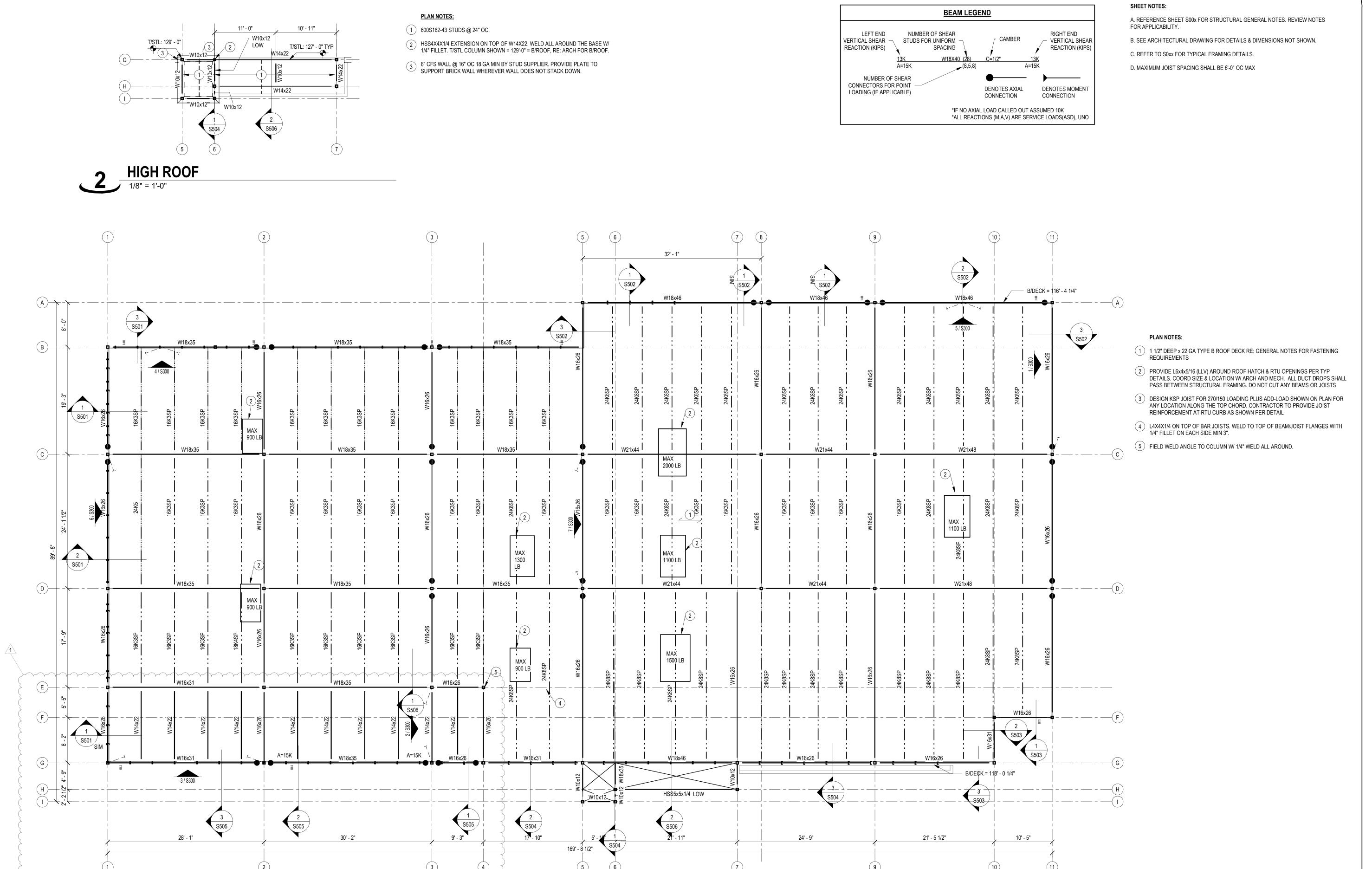
SHEET NUMBER

FOUNDATION PLAN









ROOF FRAMING PLAN

1/8" = 1'-0"

CONSTRUCTION

8234 Robinesi's Summit, Missouri
Coverland Park, K97/98/42025
913-214-2169
stand-sei com

Dev Anand President & CEO

Kevin Campbell Senior Architect

8807 Monrovia Street

Lenexa, Kansas 66215

Phone: 913.322.8882 Fax: 913.322.8886 Email: kevin@dev-inc.com

aving jurisdiction and with requirements of the Landlord, if applicable.

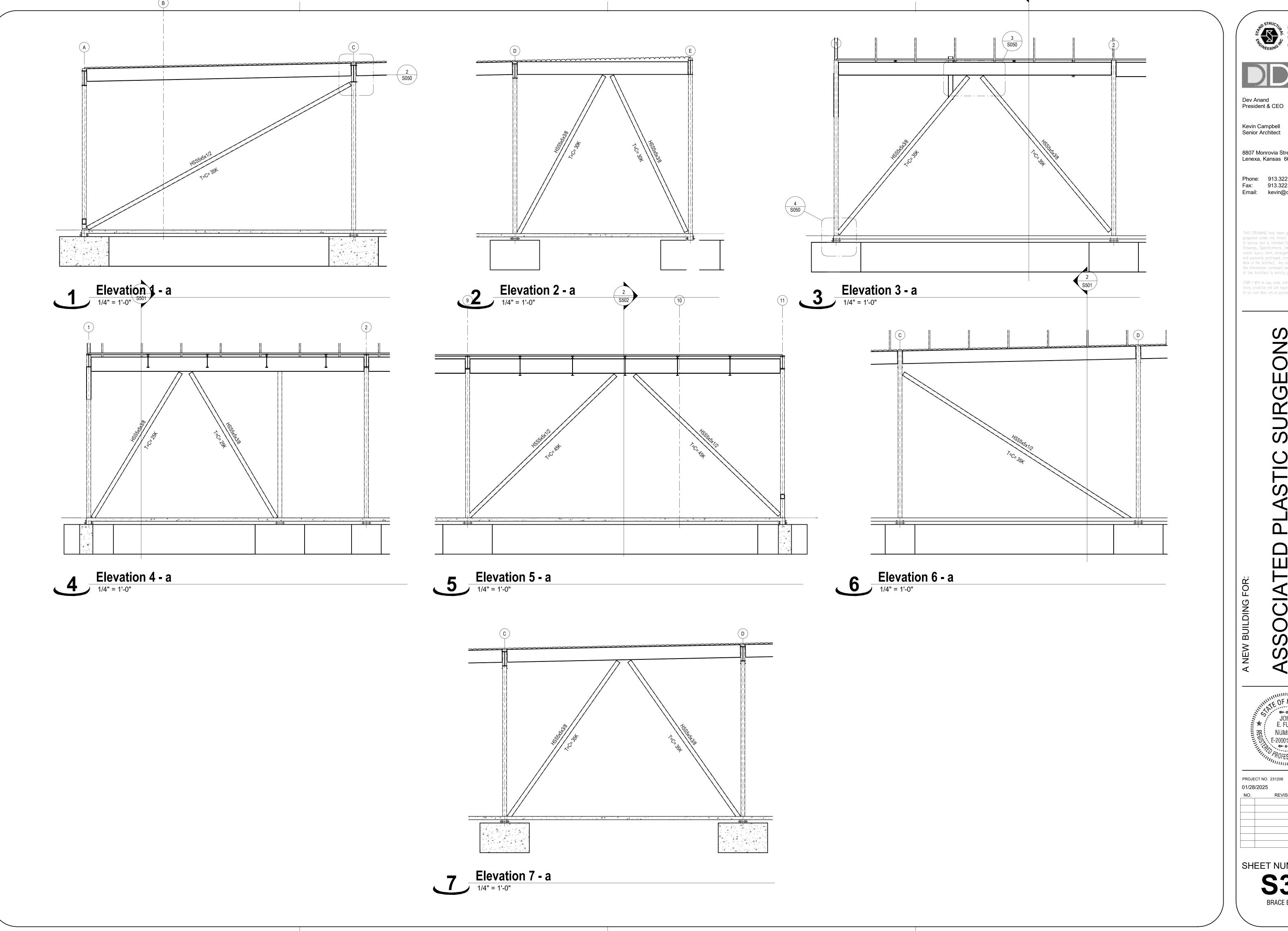
not start Work until all permits and required approvals are obtained.

SURGE

PROJECT NO. 231206 01/28/2025 DATE 06/20/2025

SHEET NUMBER

ROOF FRAMING PLAN



RELEASED FOR CONSTRUCTION Development Services L

8234 Robinson Summit, Missour

Overland Park, K9009842025

913-214-2169

stand-sei

8807 Monrovia Street Lenexa, Kansas 66215

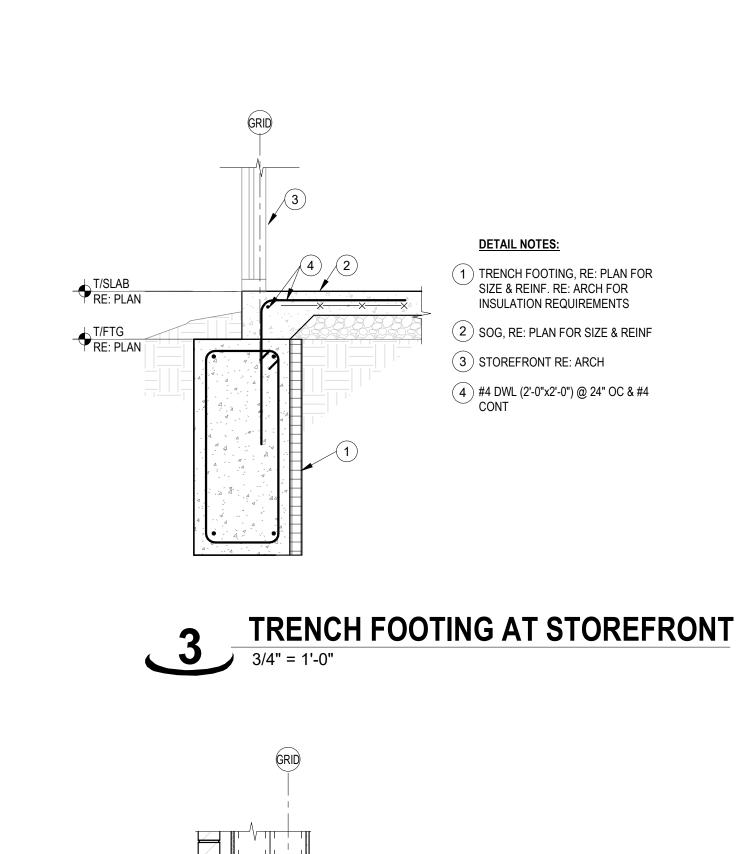
Phone: 913.322.8882 Fax: 913.322.8886 Email: kevin@dev-inc.com

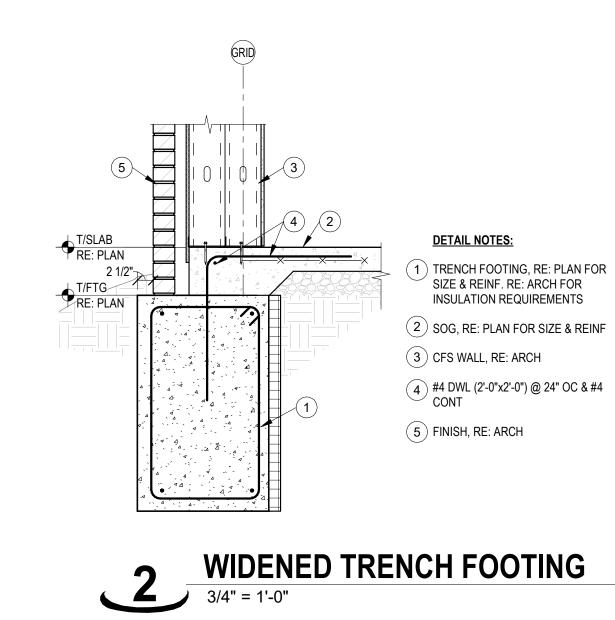
SURGEONS ASSOCIATED

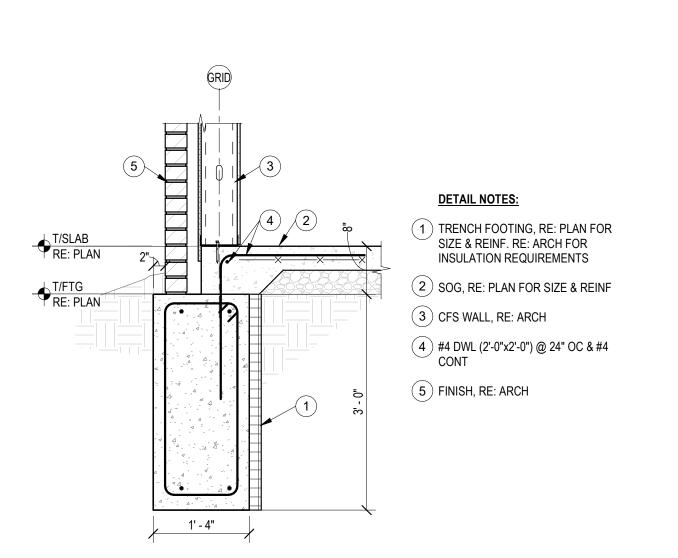
PROJECT NO. 231206 REVISION

SHEET NUMBER

BRACE ELEVATIONS







TYPICAL TRENCH FOOTING



CONSTRUCTION

8234 Robinson's Summit, Mi Overland Park, K.97/98/2025 913-214-2169

President & CEO

Kevin Campbell Senior Architect

8807 Monrovia Street Lenexa, Kansas 66215

Phone: 913.322.8882 Fax: 913.322.8886

Email: kevin@dev-inc.com

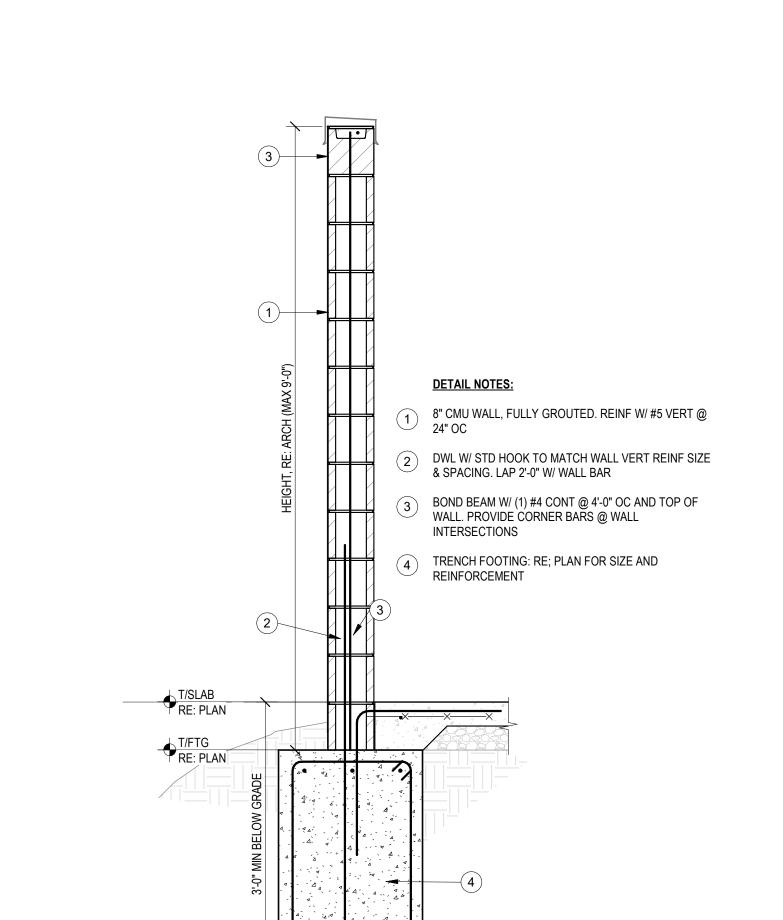
aving jurisdiction and with requirements of the Landlord, if applicable.

JOHN E. FUNK
R NUMBER
F-2000173299

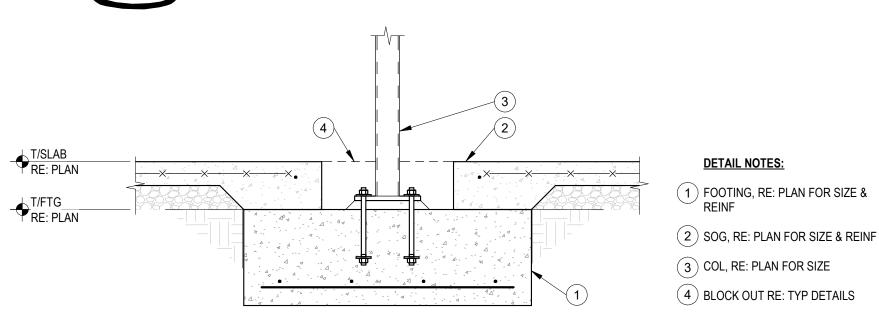
PROJECT NO. 231206 01/28/2025 REVISION

SHEET NUMBER

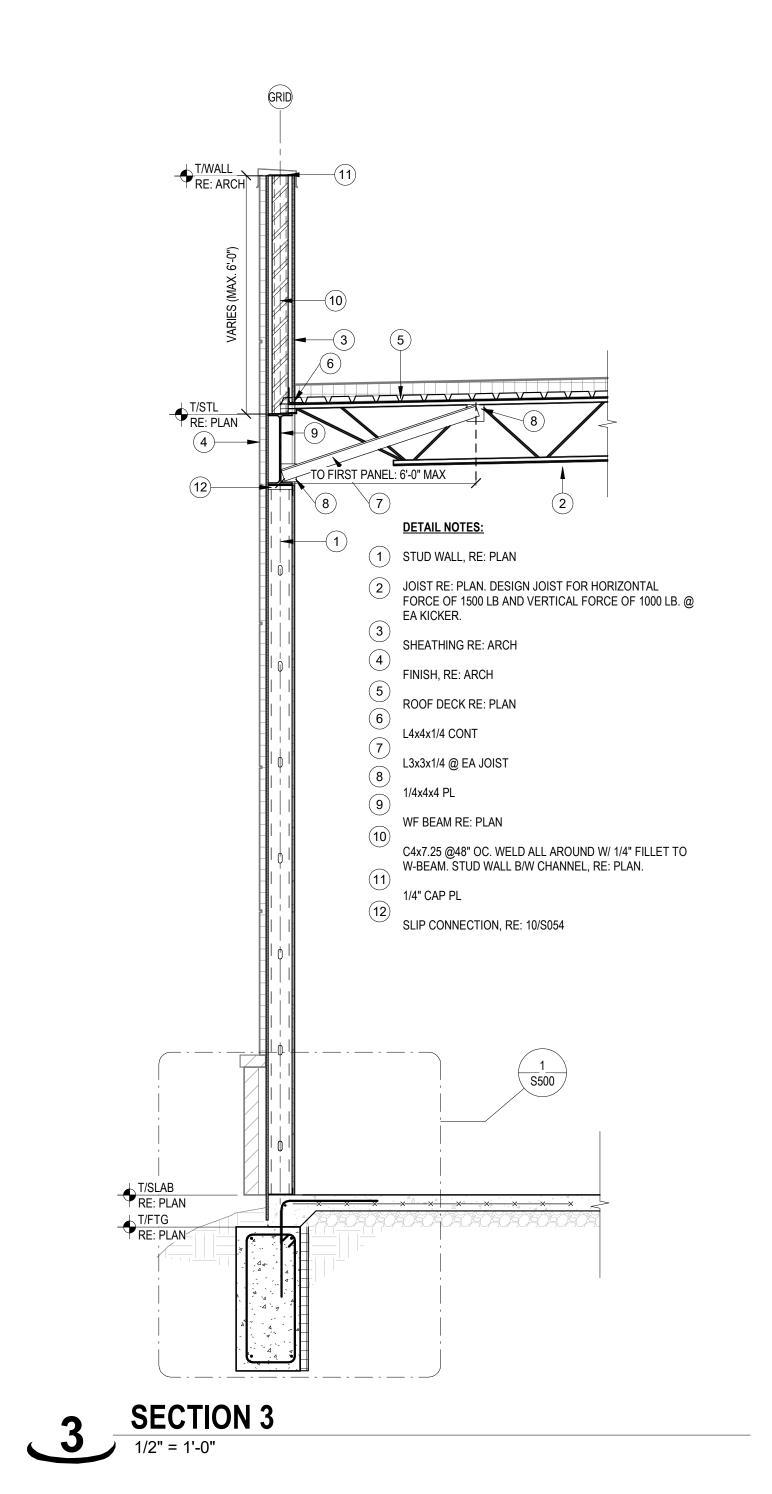
FOUNDATION SECTIONS

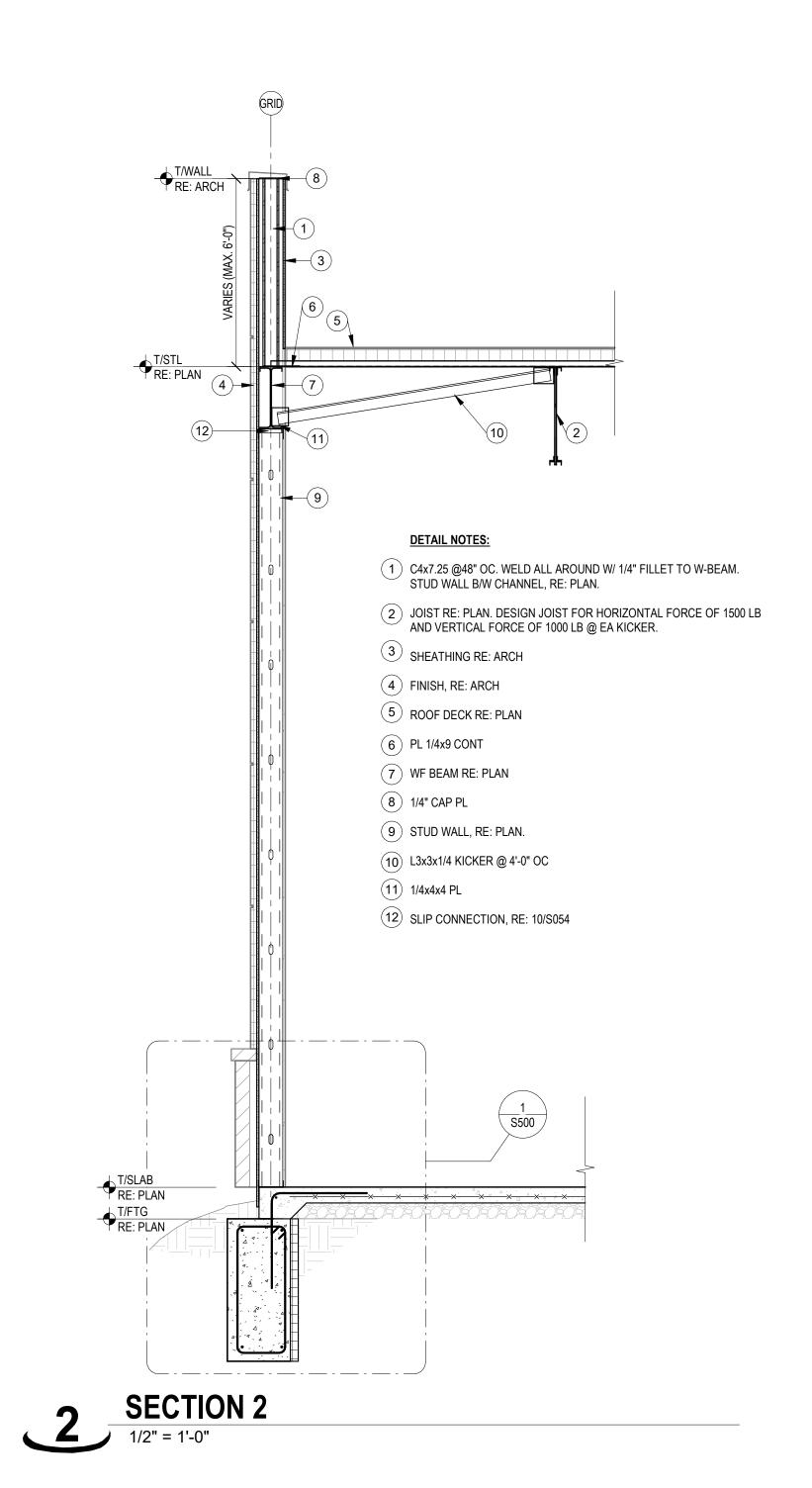


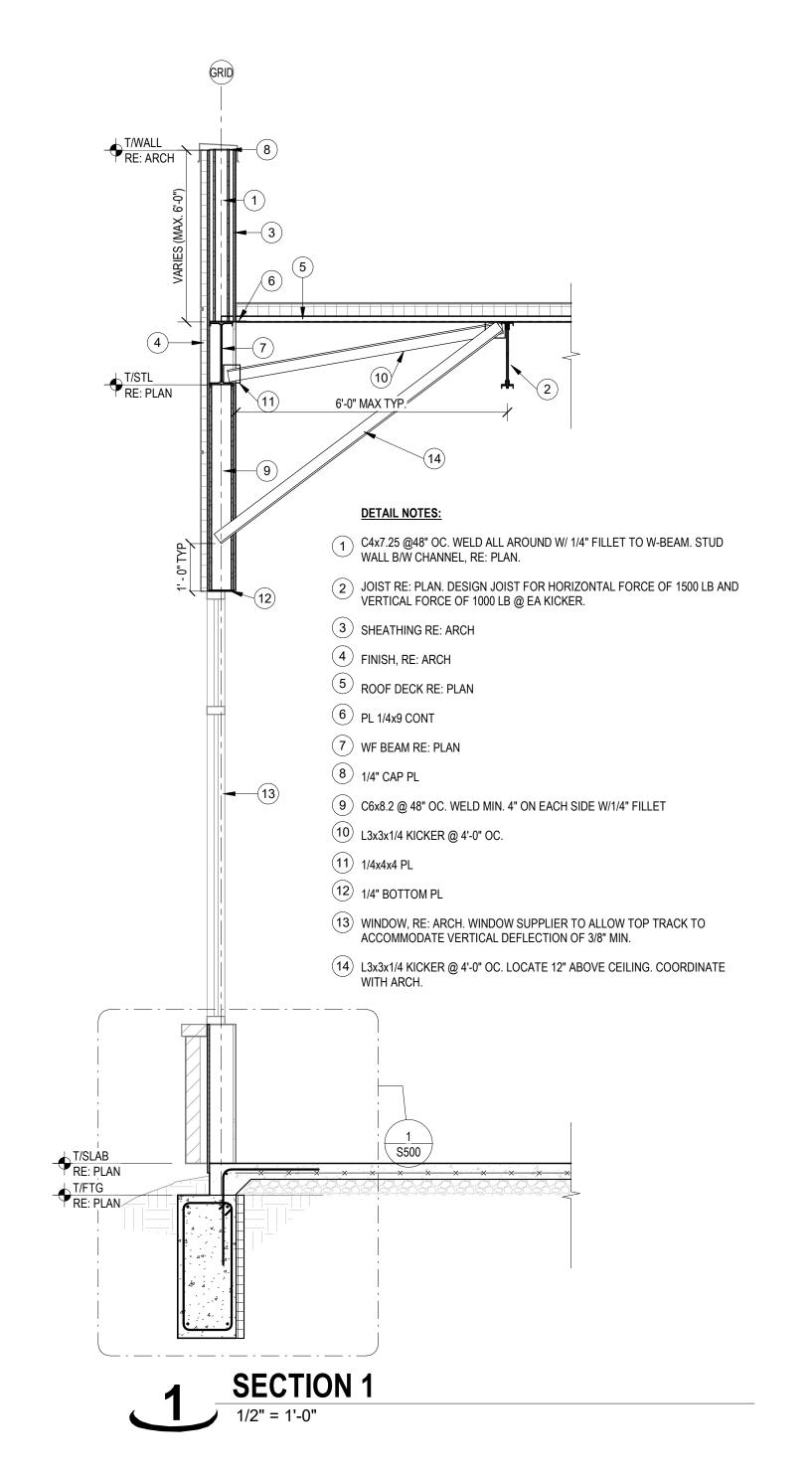
TRENCH FOOTING AT CMU WALL 3/4" = 1'-0"



INTERIOR MASS FTG







CONSTRUCTION 8234 Robinson's Summit, M Overland Park, K9<mark>7/98/202</mark> 913-214-2169

Dev Anand President & CEO

Kevin Campbell Senior Architect

8807 Monrovia Street Lenexa, Kansas 66215

Phone: 913.322.8882 Fax: 913.322.8886 Email: kevin@dev-inc.com

having jurisdiction and with requirements of the Landlord, if applicable.

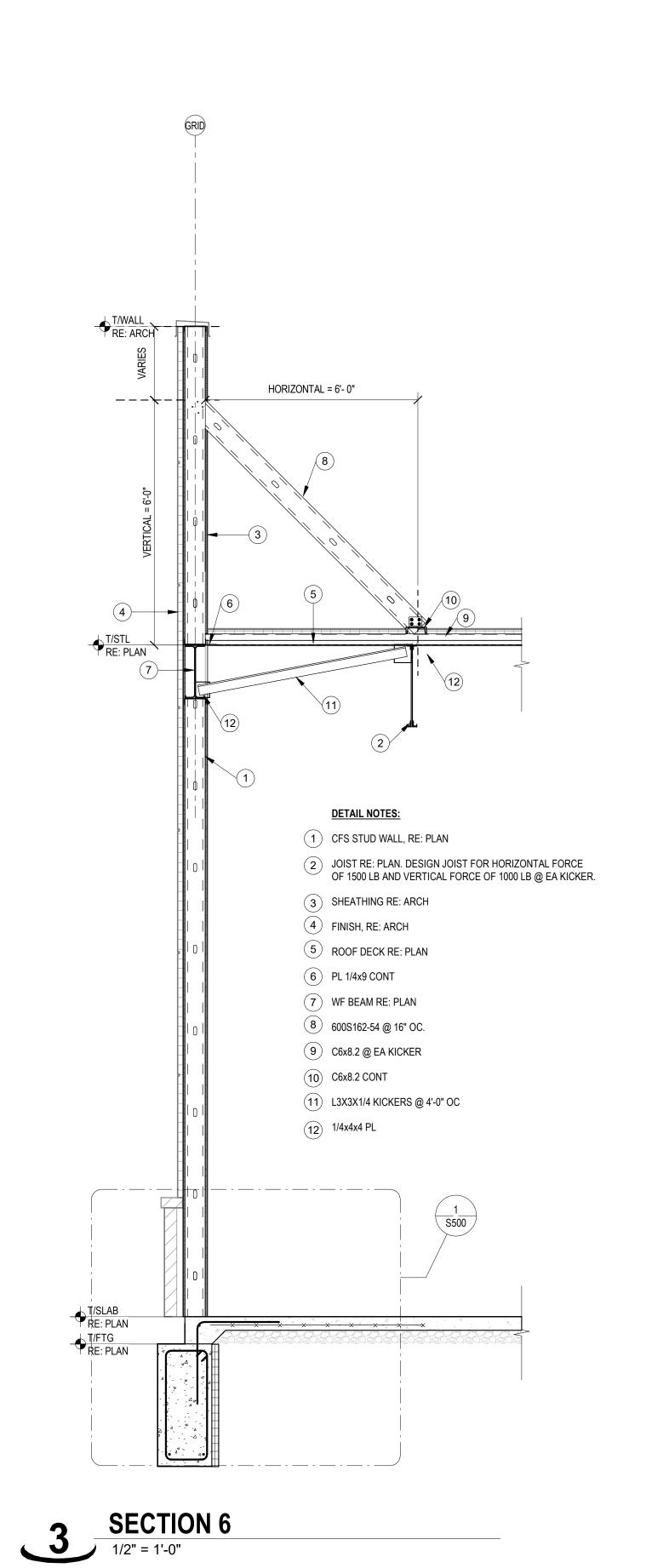
SURGE S

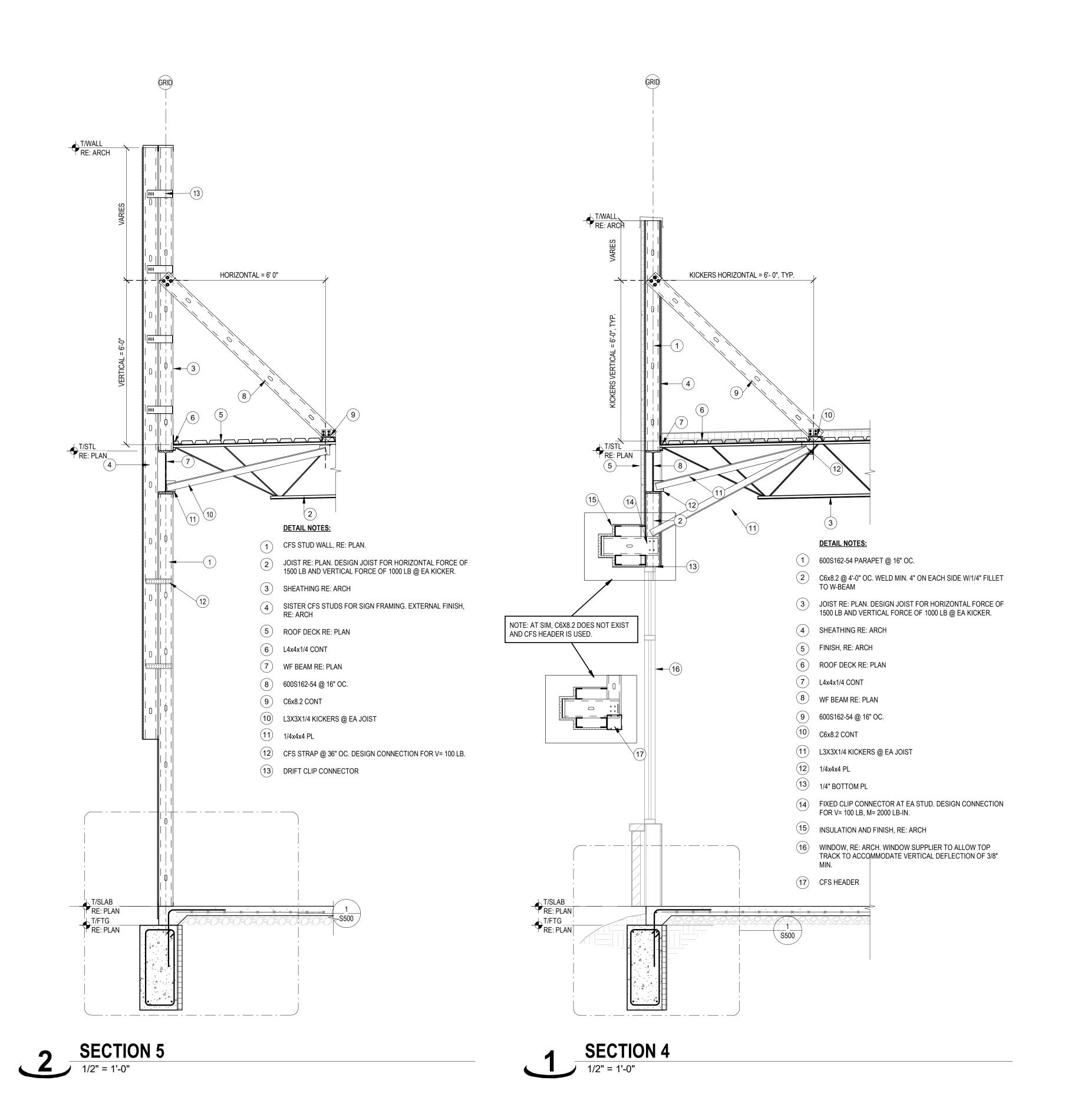
ASSOC

JOHN E. FUNK NUMBER E-2000173299

PROJECT NO. 231206 01/28/2025 REVISION

SHEET NUMBER





CONSTRUCTION 8234 Robinson Saugemit, Mis Overland Park, K97/98/2025 913-214-2169

President & CEO

Kevin Campbell

Senior Architect

8807 Monrovia Street Lenexa, Kansas 66215

Phone: 913.322.8882 Fax: 913.322.8886 Email: kevin@dev-inc.com

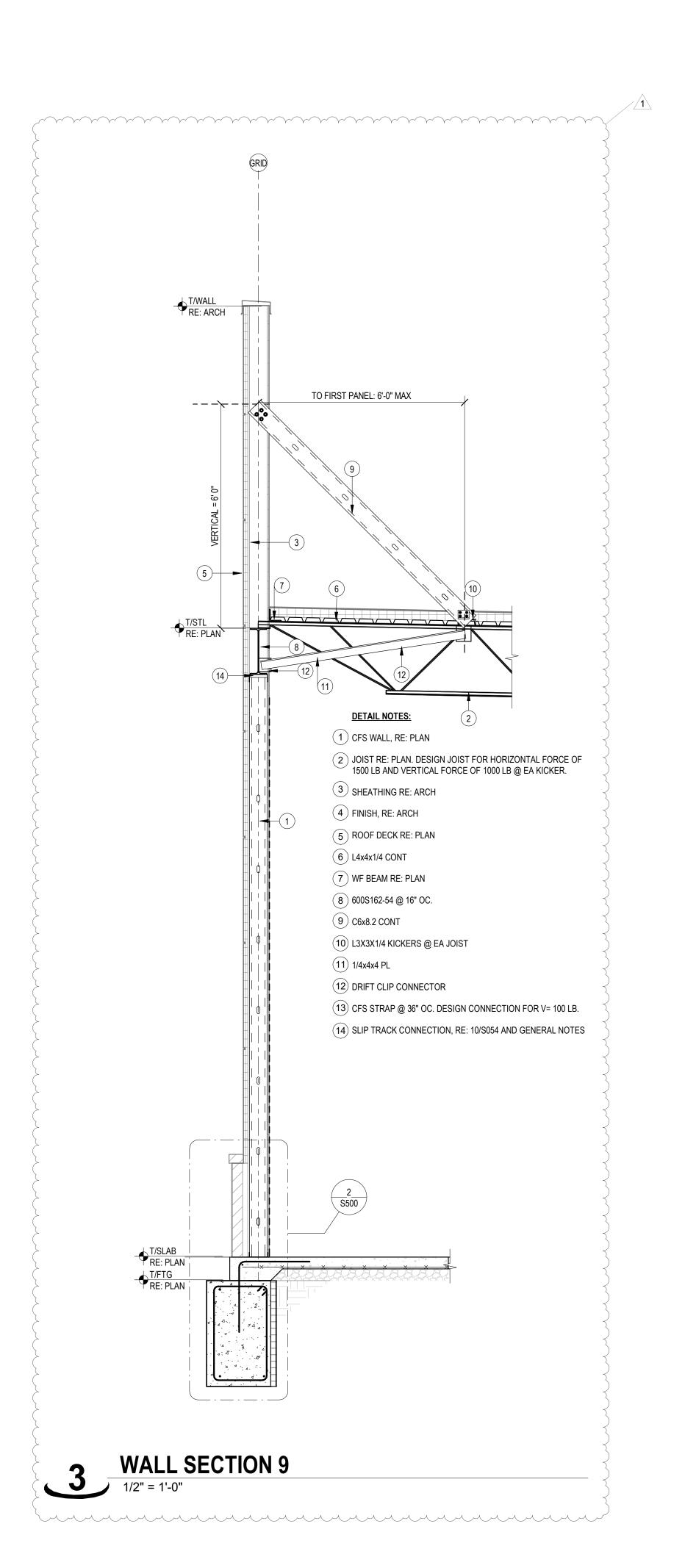
aving jurisdiction and with requirements of the Landlord, if applicable.

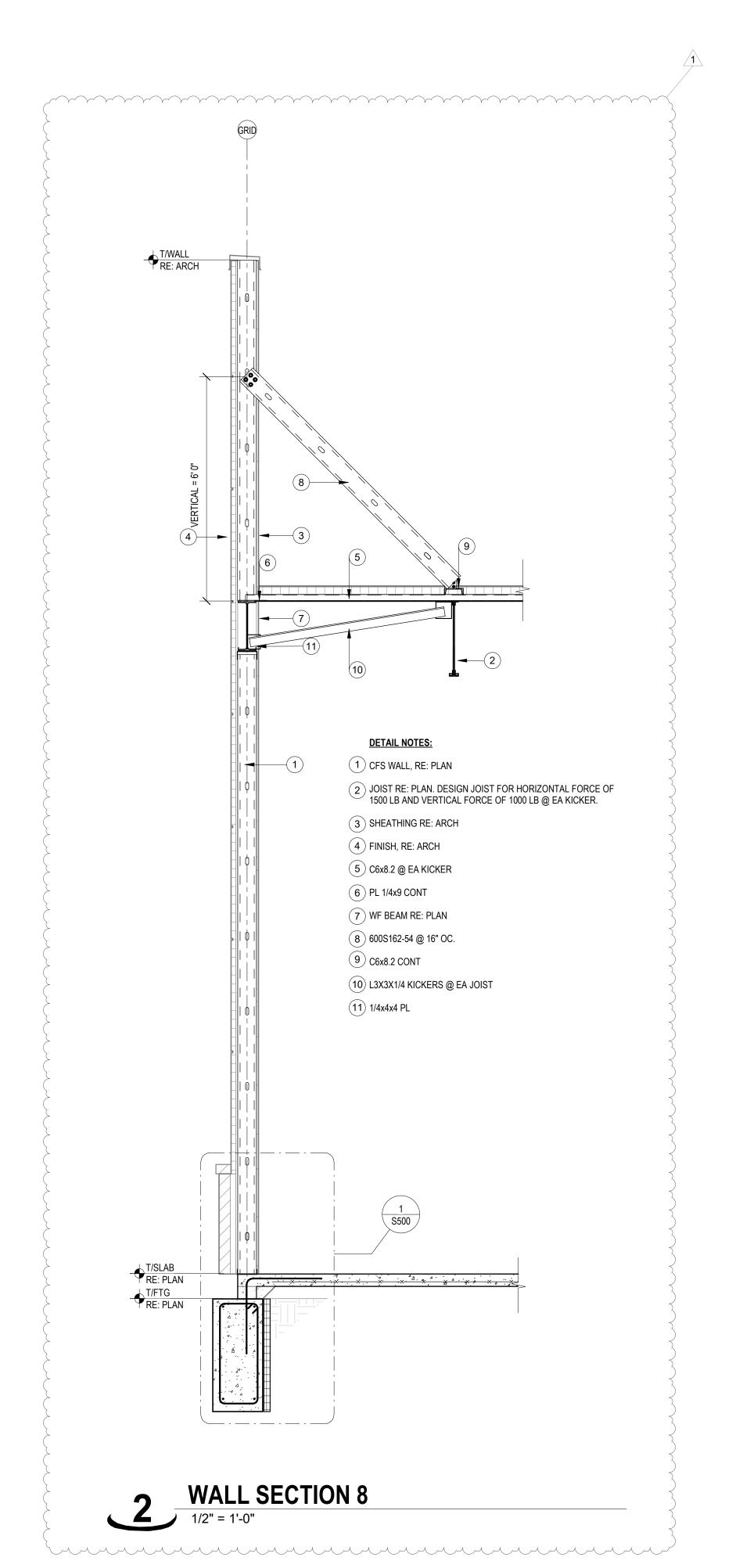
SURGEONS

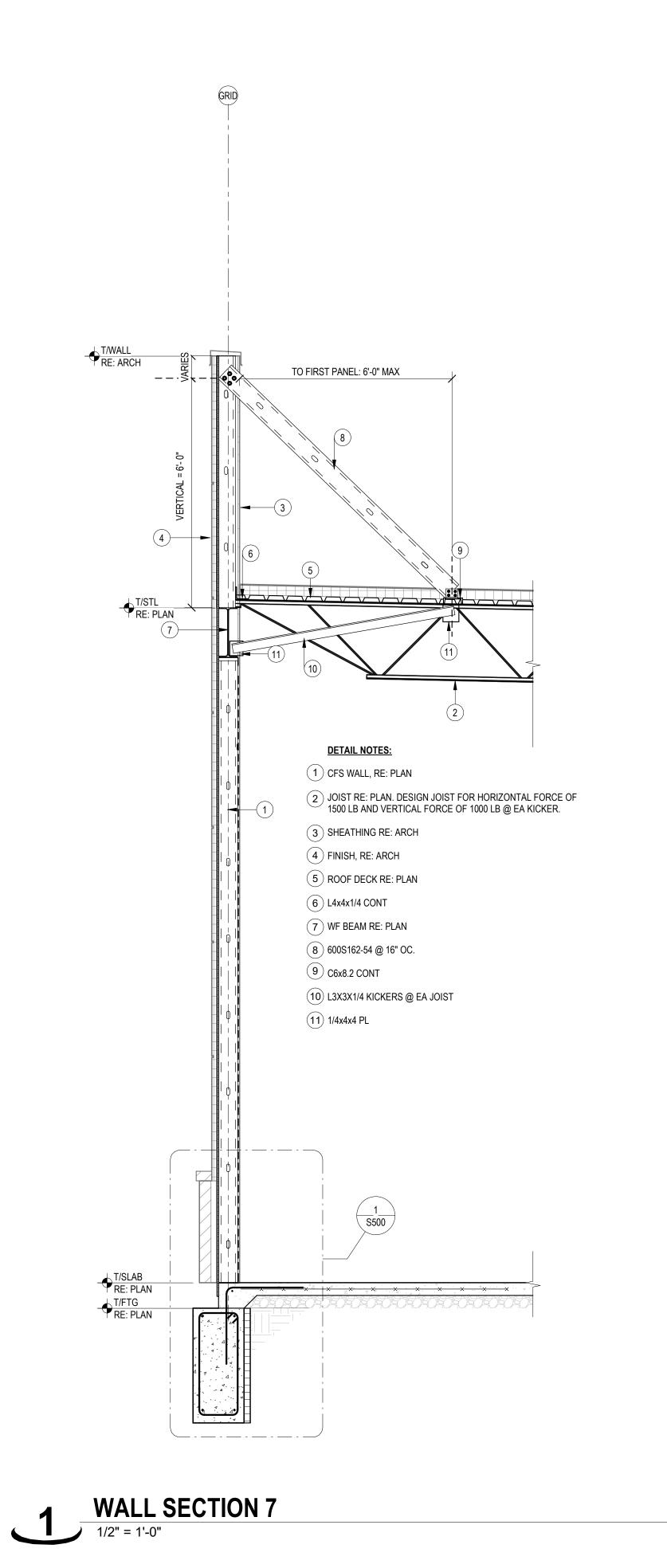
JOHN E. FUNK NUMBER E-2000173299

PROJECT NO. 231206 01/28/2025 REVISION

SHEET NUMBER







CONSTRUCTION 8234 Robinson's Summit, Mi Overland Park, K.97/98/2025 913-214-2169

Dev Anand President & CEO

Kevin Campbell

Senior Architect

8807 Monrovia Street Lenexa, Kansas 66215

Phone: 913.322.8882 Fax: 913.322.8886 Email: kevin@dev-inc.com

aving jurisdiction and with requirements of the Landlord, if applicable.

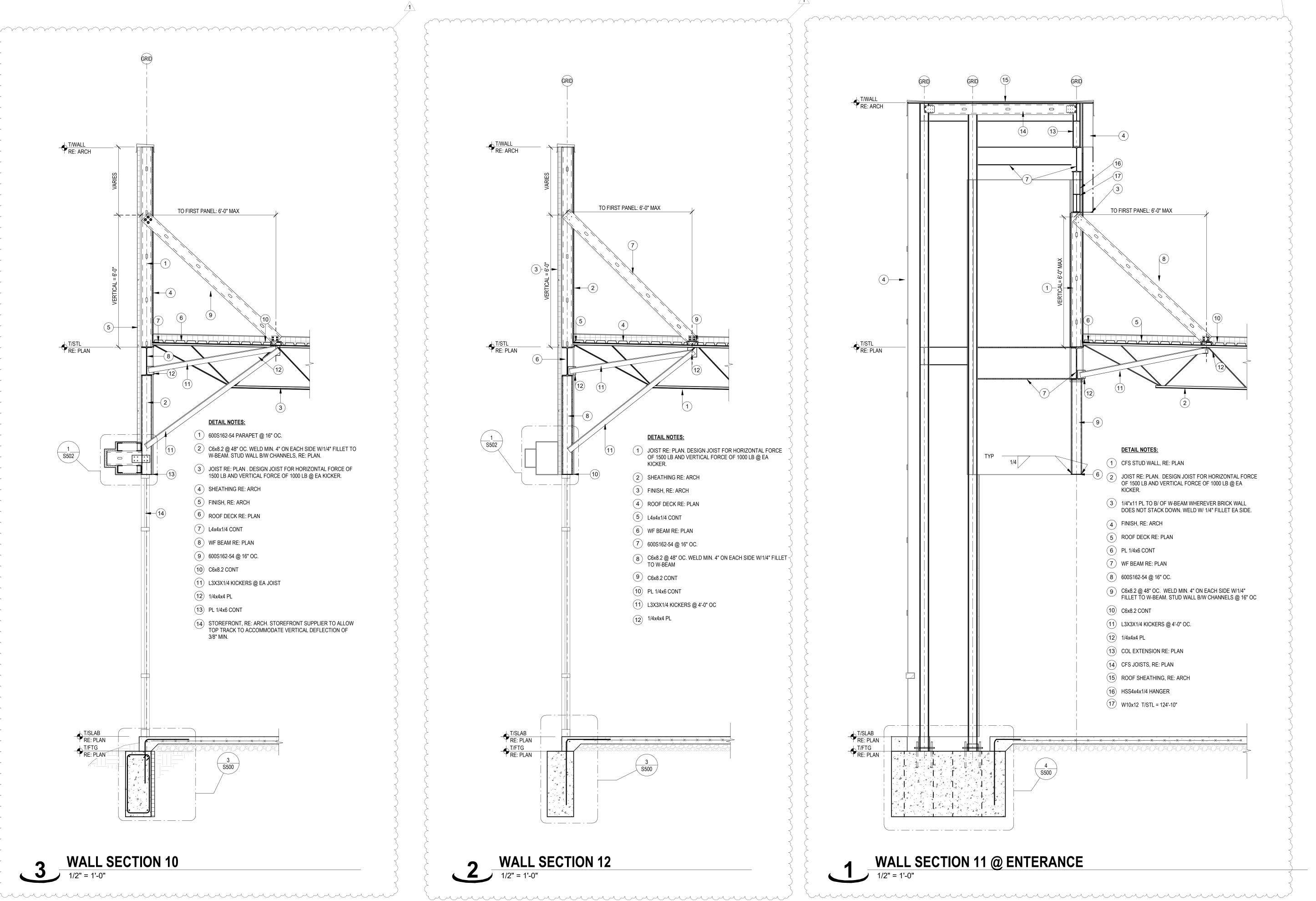
SURGEONS

SI ASSOCIAT

NUMBER E-2000173299

PROJECT NO. 231206 01/28/2025 REVISION 06/20/2025 Rev 3

SHEET NUMBER



CONSTRUCTION

8234 Robinson Saugemit, Mis Overland Park, K97/98/2025 913-214-2169

President & CEO

Kevin Campbell

Senior Architect

8807 Monrovia Street Lenexa, Kansas 66215

Phone: 913.322.8882 Fax: 913.322.8886 Email: kevin@dev-inc.com

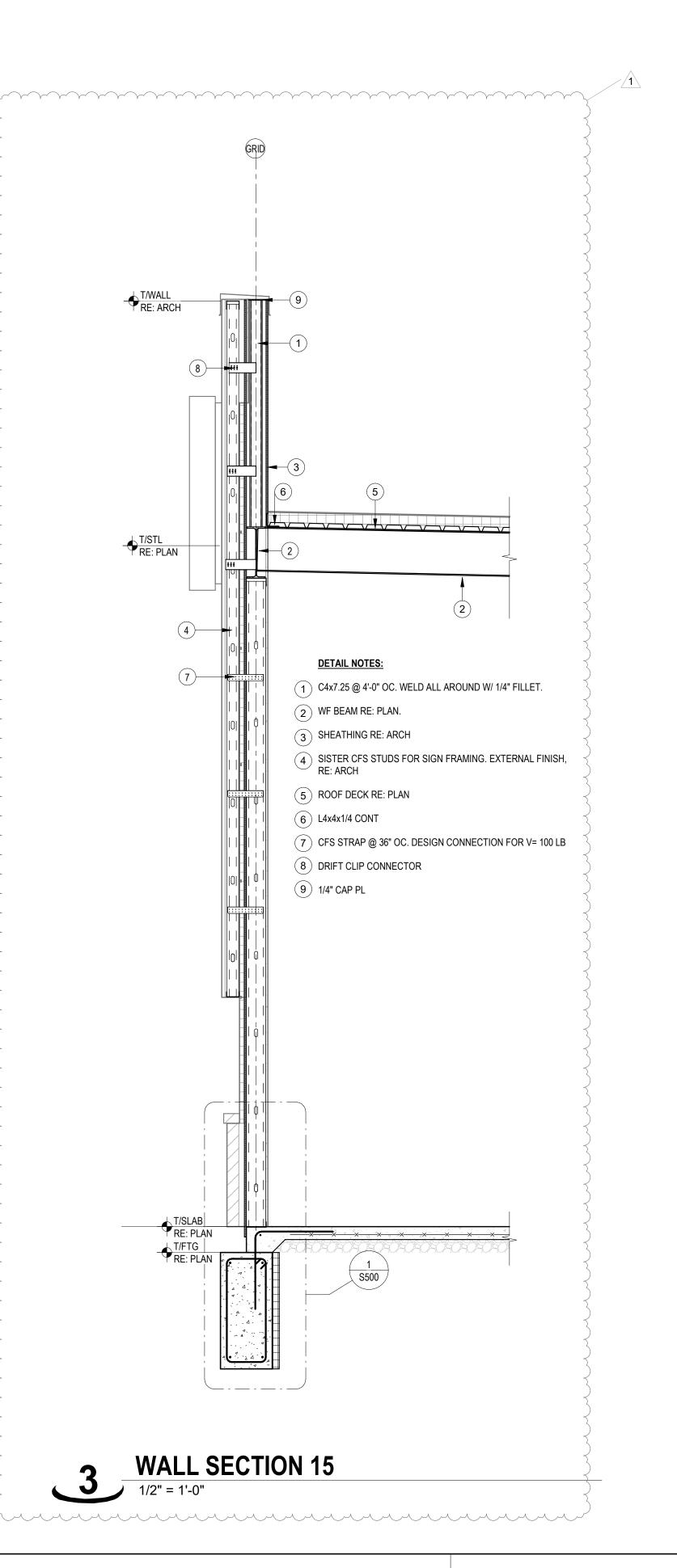
aving jurisdiction and with requirements of the Landlord, if applicable.

SURGEONS

JOHN E. FUNK NUMBER E-2000173299

PROJECT NO. 231206 01/28/2025 REVISION 06/20/2025 Rev 3

SHEET NUMBER



DETAIL NOTES:

2 WF BEAM RE: PLAN.

6 L4x4x1/4 CONT

9 1/4" CAP PL

T/SLAB

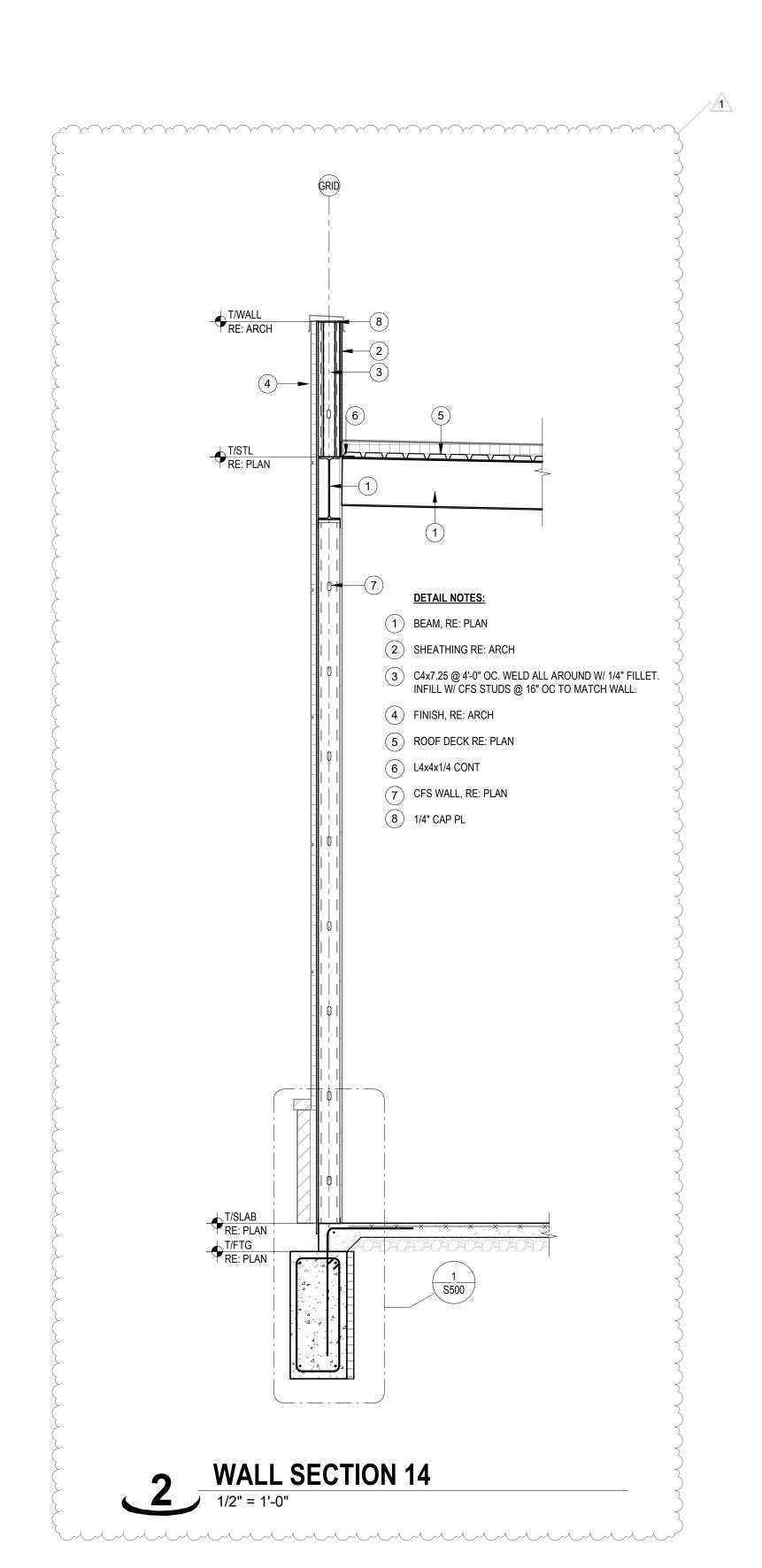
RE: PLAN

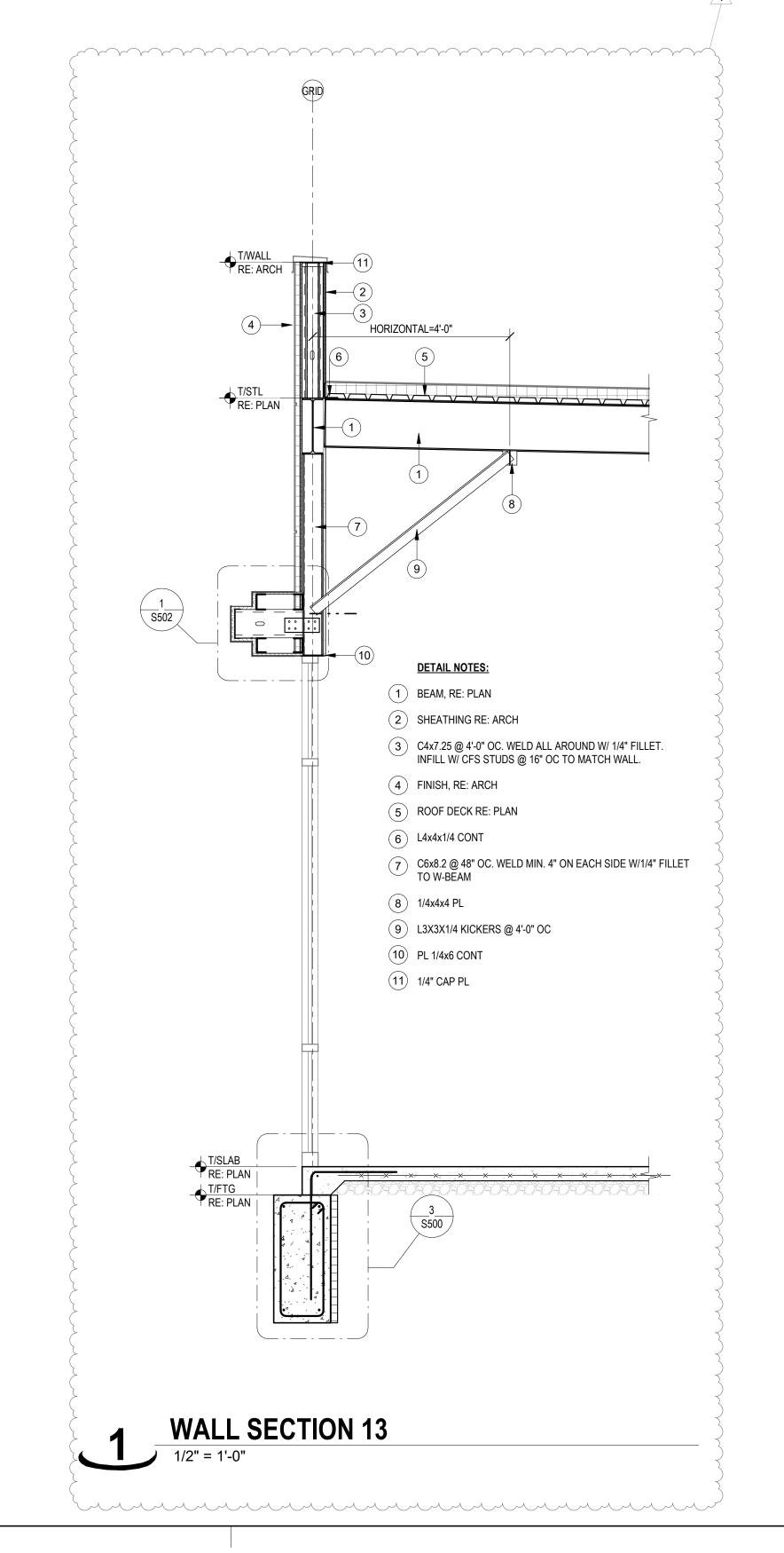
T/FTG

RE: PLAN

WALL SECTION 15

T/WALL RE: ARCH





CONSTRUCTION 8234 Robinson's Supporting Mis Overland Park, K97/98/2025 913-214-2169



Dev Anand President & CEO

Kevin Campbell

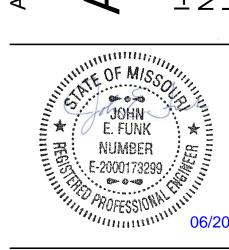
Senior Architect

8807 Monrovia Street Lenexa, Kansas 66215

Phone: 913.322.8882 Fax: 913.322.8886 Email: kevin@dev-inc.com

having jurisdiction and with requirements of the Landlord, if applicable. not start Work until all permits and required approvals are obtained.

SURGEONS

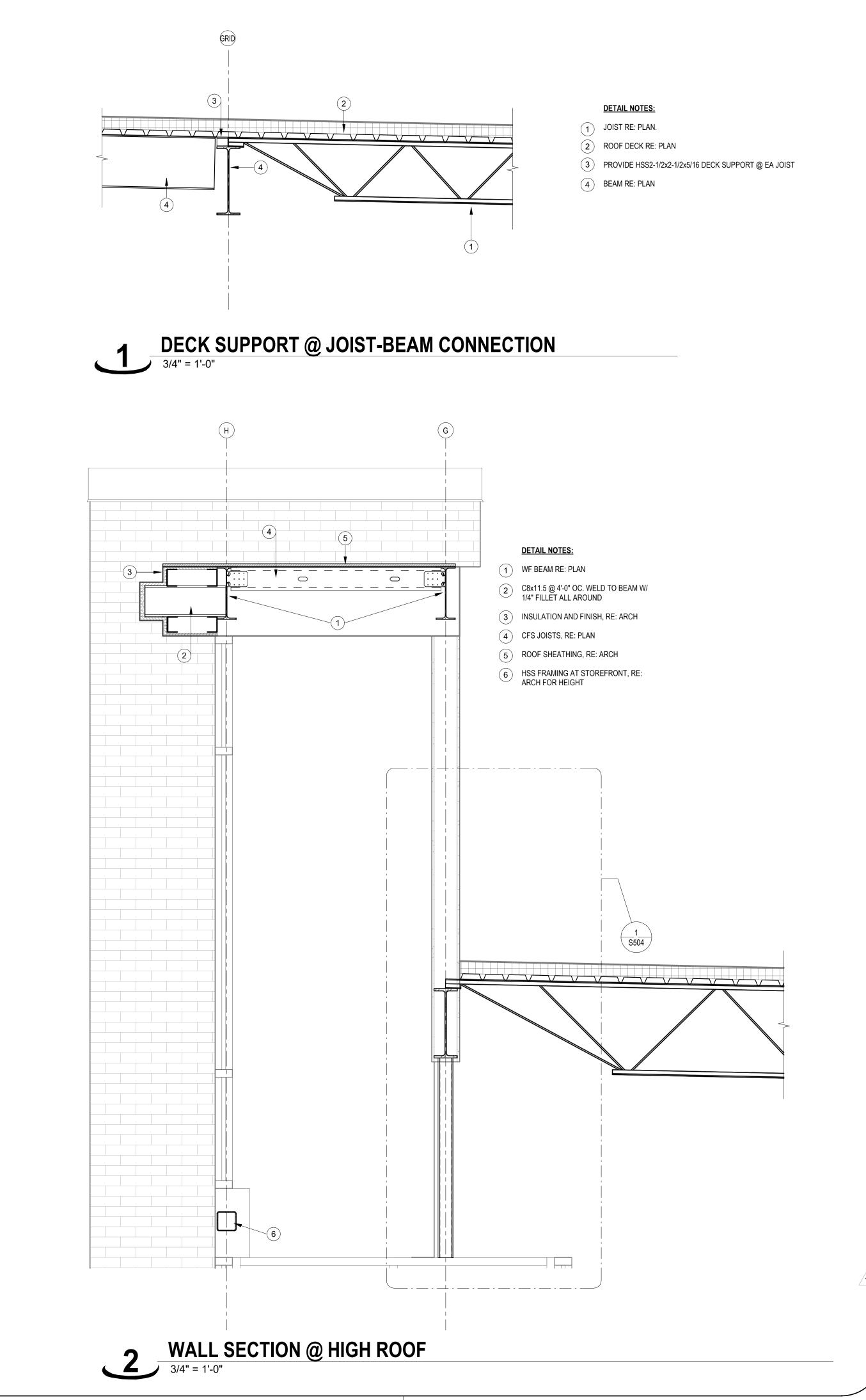


SSOCIAT

PROJECT NO. 231206 01/28/2025 REVISION 06/20/2025 Rev 3

SHEET NUMBER

ROOF FRAMING SECTIONS



CONSTRUCTION 8234 Robinsen's Summit, Missour Overland Park, K907/98/2025 913-214-2169 stand-sei.com

President & CEO

Kevin Campbell

Senior Architect 8807 Monrovia Street

Fax: 913.322.8886 Email: kevin@dev-inc.com

Lenexa, Kansas 66215 Phone: 913.322.8882

having jurisdiction and with requirements of the Landlord, if applicable.

SURGEONS

PLUMBING PLAN NOTES

- 1. 2" W UP TO FUTURE SINK, LAVATORY OR EQUIPMENT.
- 2. 2" W UP TO FUTURE MOP SINK OR SHOWER, 2" V OVER AND TURN UP INTO
- 4. SEE SITE UTILITIES PLAN FOR CONTINUATION. COORDINATE WITH CIVIL
- 6. EXTEND 2" CW UP THROUGH FLOOR AND INSTALL BALL VALVE AND CAPPED CW SERVICE (FOR FUTURE EXTENSION).
- 7. EXTEND 6" FIRE SUPPRESSOR SERVICE UP THROUGH FLOOR AND INSTALL APPROVED GATE VALVE WITH BLIND FLANGE (FOR FUTURE EXTENSION).
- 8. SLOPE SANITARY AND WASTE PIPING A MINIMUM OF 1/8"/FT. (3" AND LARGER) AND 1/4"/FT (2-1/2" AND SMALLER).
- 9. SLOPE FROM THIS POINT TO THE EXTERIOR WALL SHALL BE A MINIMUM OF
- SHEET.

 SHEET.

 The state of the section of Piping.
- 13. SEE RISER #3 FOR THIS SECTION OF PIPING.
- 14. SEE RISER #4 FOR THIS SECTION OF PIPING.

ELECTRICAL PLAN NOTES

- 1. 1" CONDUIT INSTALLED BELOW GRADE FOR DATA CABLES AT NURSES STATION. STUB CONDUIT UP 6" AT BOTH ENDS, INSTALL PULL-STRING AND CAP AT BOTH ENDS FOR FUTURE USE.
- NURSES STATION. STUB CONDUIT UP 6" AT BOTH ENDS, INSTALL PULL-STRING AND CAP AT BOTH ENDS FOR FUTURE USE.

- 3. 4" S UP TO FUTURE WATER CLOSET, 2" V OVER AND TURN UP INTO FUTURE
- 5. MINIMUM INVERT ELEVATION -46.6".

- 10. INSTALL YARD CLEANOUT WITHIN 30" OF EXTERIOR WALL. SEE DETAIL THIS
- 11. 3" W UP TO FUTURE SINK. SEE RISER #1 FOR THIS SECTION OF PIPING.

- 12. SEE RISER #2 FOR THIS SECTION OF PIPING.

- 2. 1" CONDUIT INSTALLED BELOW GRADE FOR WIRING OF RECEPTACLES AT

Dev Anand President & CEO

Kevin Campbell Senior Architect

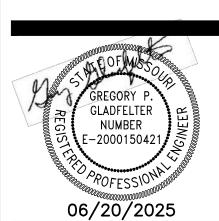
8807 Monrovia Street Lenexa, Kansas 66215

913.322.8882 Phone: Fax: 913.322.8886 Email: kevin@dev-inc.com

THIS DRAWING has been prepared by the Architect, or prepared under his direct supervision as an instrument of service and is intended for use only on this project. All Drawings, Specifications, ideas and designs, including the overall layout, form, arrangement, and composition of spaces and elements portrayed, constitute the original, unpublished Work of the Architect. Any reproduction, use, or disclosure of the information contained herein without the written consent of the Architect is strictly prohibited.

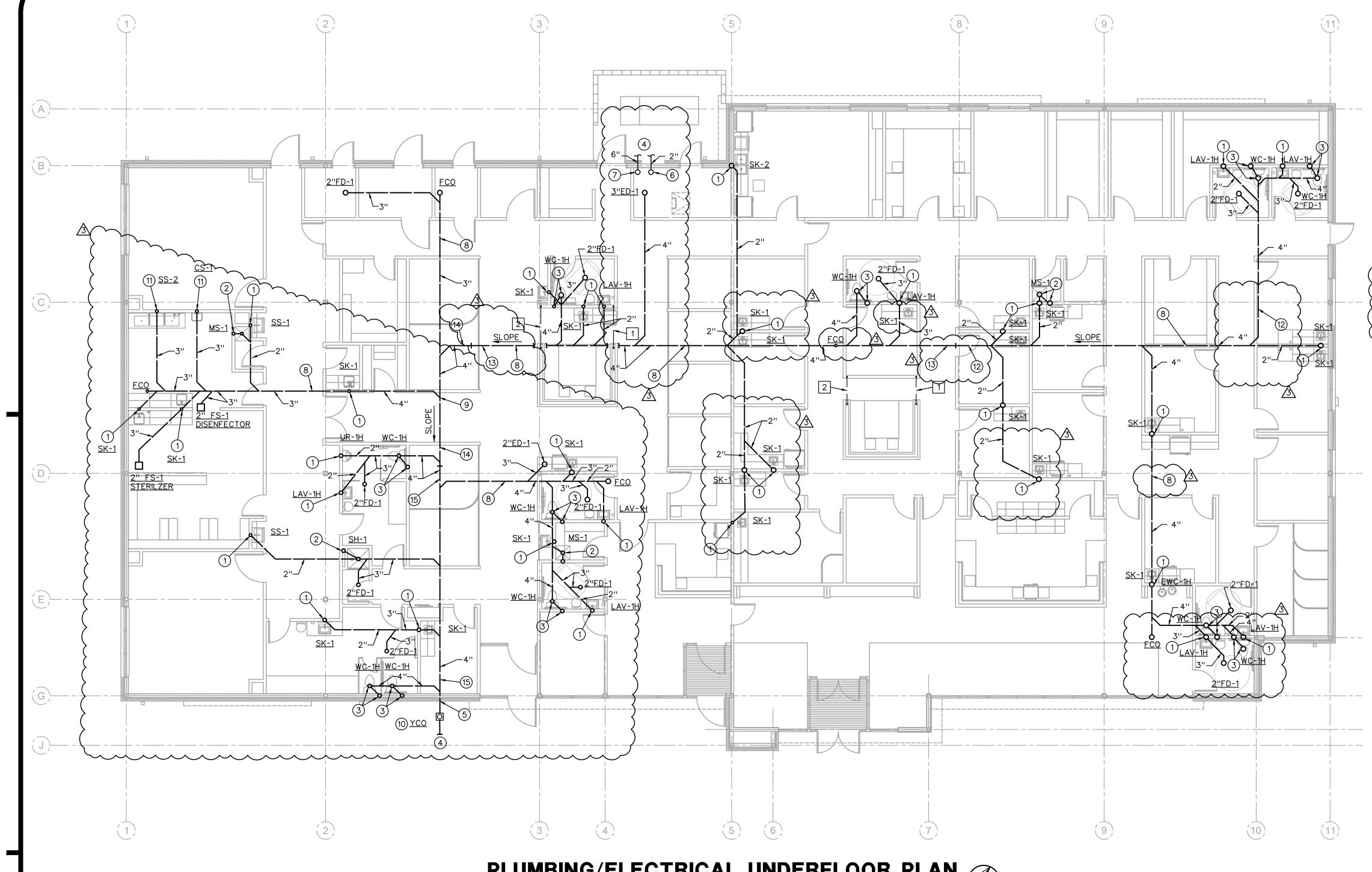
COMPLY WITH all laws, codes, ordinances and regulations with authorities having jurisdiction and with requirements of the Landlord, if applicable. Do not start Work until all permits and required approvals are obtained.

BUILDING SHELL PERMIT

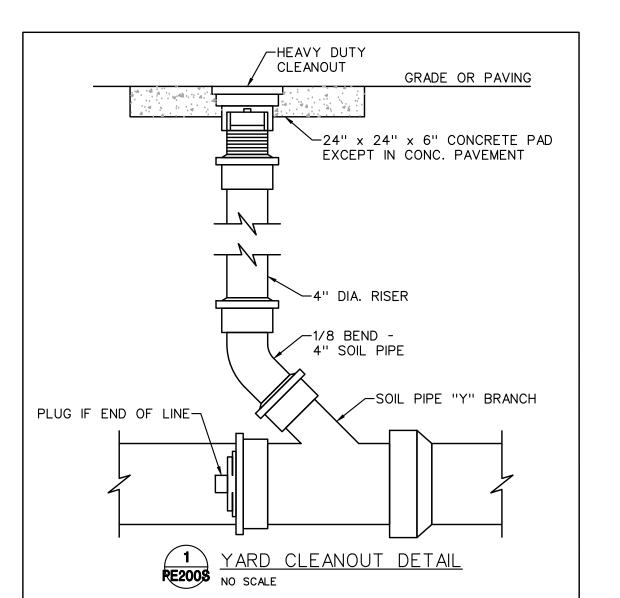


DRAWING ISSUANCE BUILDING SHELL PERMIT

SHEET NUMBER



PLUMBING/ELECTRICAL UNDERFLOOR PLAN 1/8" = 1'-0"







Dev Anand President & CEO

Kevin Campbell Senior Architect

8807 Monrovia Street Lenexa, Kansas 66215

Phone: 913.322.8882 Fax: 913.322.8886

Email: kevin@dev-inc.com

THIS DRAWING has been prepared by the Architect, or prepared under his direct supervision as an instrument of service and is intended for use only on this project. All Drawings, Specifications, ideas and designs, including the overall layout, form, arrangement, and composition of spaces and elements portrayed, constitute the original, unpublished Work of the Architect. Any reproduction, use, or disclosure of the information contained herein without the written consent of the Architect is strictly prohibited.

COMPLY WITH all laws, codes, ordinances and regulations with authorities having jurisdiction and with requirements of the Landlord, if applicable. Do not start Work until all permits and required approvals are obtained.

GEONS

TED PLASTIC SURGEON

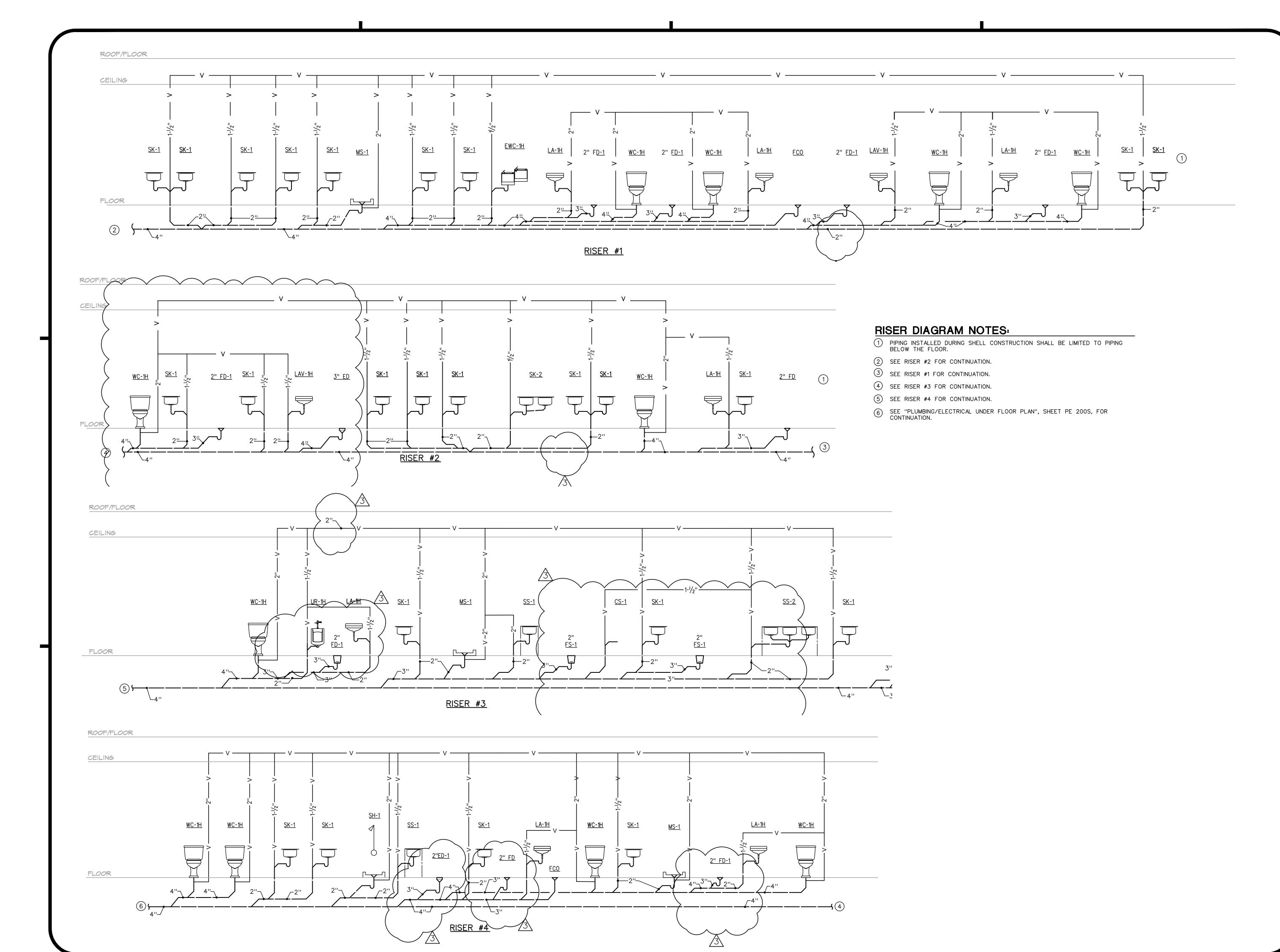
06/20/2025 ROJECT NO. 231206 DRAWING ISSUANC

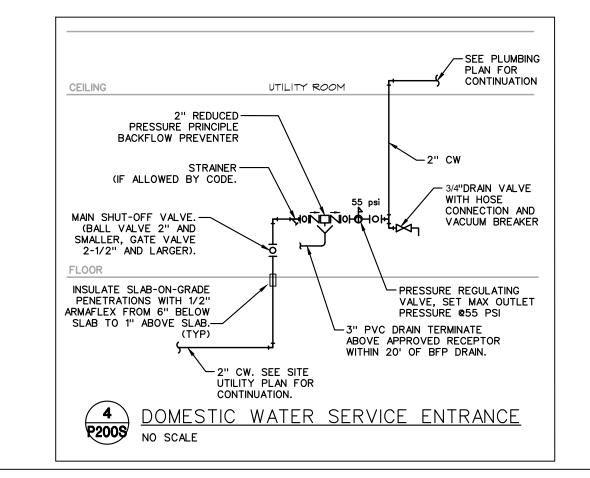
DRAWING ISSUANCE

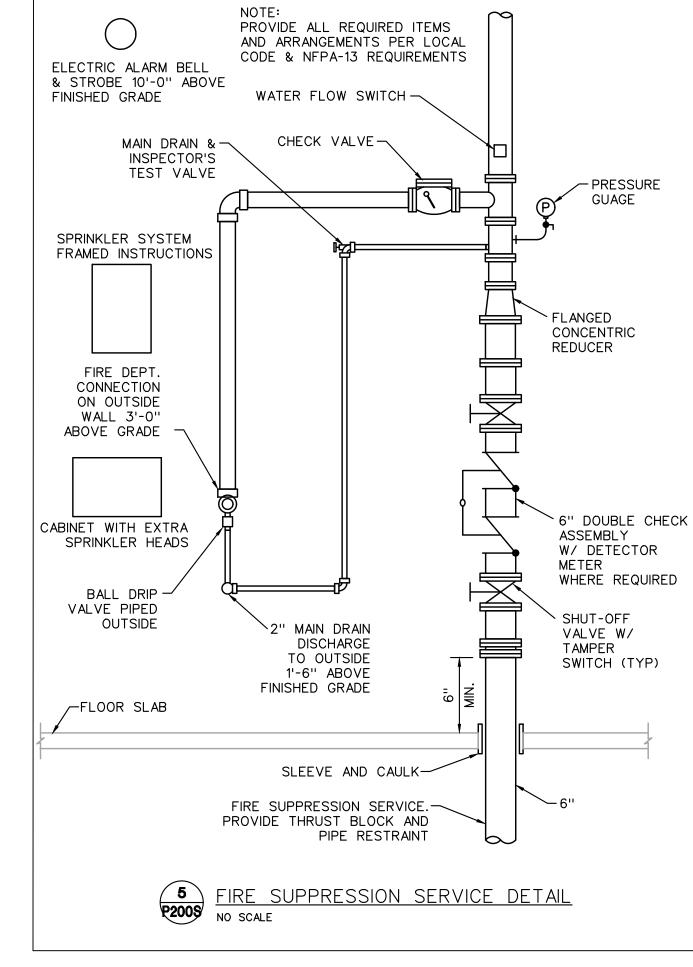
09/27/2024 BUILDING SHELL PERMIT
02/03/2025 BUILDING SHELL PERMIT
06/20/2025 REV 03

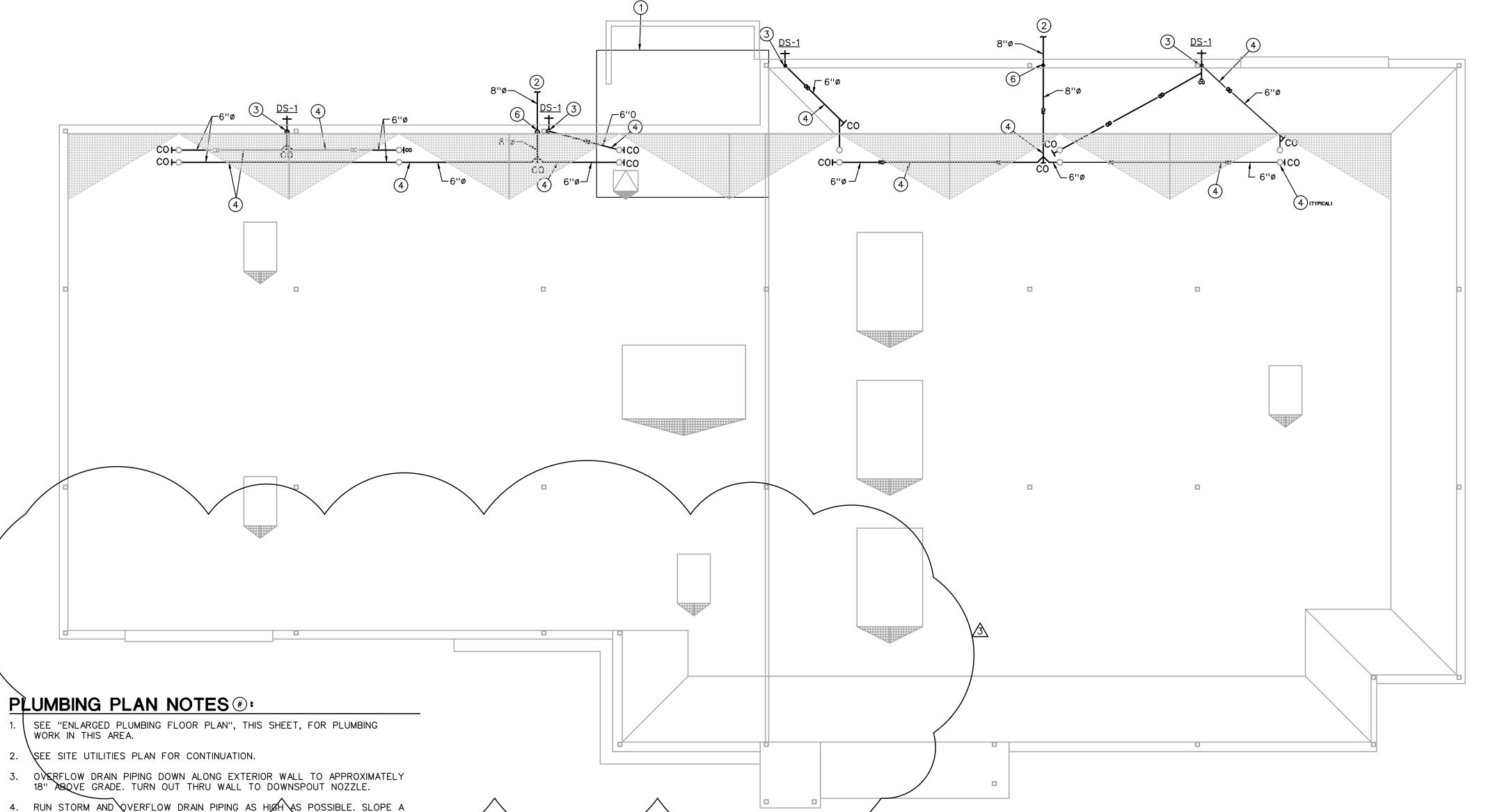
SHEET NUMBER

PE300S



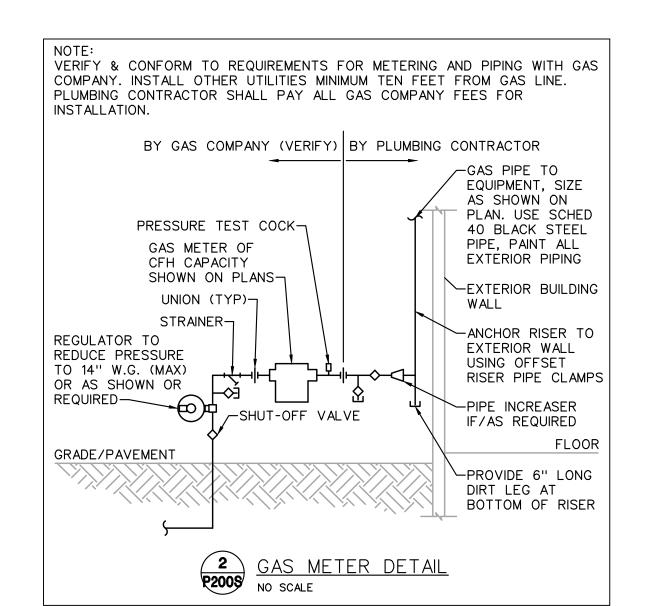












MINIMUM OF 1/8"/FT UNLESS OTHERWISE NOTED.

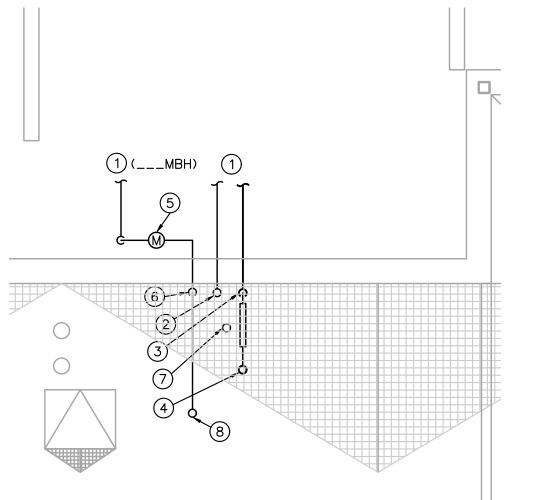
PLAN", SHEET MP200S, FOR DRAIN LOCATION.

5. 4" ST OR OD PIPING UP TO RD OR OD. SEE "HVAC/PLUMBING ROOF

6. STORM DRAIN PIPING DOWN ALONG EXTERIOR WALL TO BELOW THE FLOOR.

ENLARGED PLUMBING PLAN NOTES :

- 1. SEE SITE UTILITIES PLAN FOR CONTINUATION.
- 2. 6" FIRE SUPPRESSION SERVICE (EXTENDED BY THE FIRE SUPPRESSION CONTRACTOR). SEE "FIRE SUPPRESSION SERVICE DETAIL", THIS SHEET.
- 3. 2" CW FROM BELOW CONTINUING THRU BACKFLOW PREVENTER AND PRV. SEE "DOMESTIC CW SERVICE DETAIL", THIS SHEET, FOR CONFIGURATION OF DOMESTIC WATER PIPING.
- 4. CAP PIPING FOR FUTURE EXTENSION.
- 5. NATURAL GAS METER. SEE "NATURAL GAS METER DETAIL", THIS SHEET, FOR CONFIGURATION OF NATURAL GAS PIPING.
- 6. 2-1/2" NATURAL GAS PIPING UP ALONG WALL TO STRUCTURAL SPACE.
- 7. 3" ED-1. COORDINATE LOCATION WITH BACKFLOW PREVENTER.
- 8. 2-1/2" NG UP THRU ROOF.



ENLARGED PLUMBING FLOOR PLAN





Dev Anand President & CEO

Kevin Campbell Senior Architect

8807 Monrovia Street

Lenexa, Kansas 66215

913.322.8882 Phone: 913.322.8886 Email: kevin@dev-inc.com

THIS DRAWING has been prepared by the Architect, or prepared under his direct supervision as an instrument of service and is intended for use only on this project. A Drawings, Specifications, ideas and designs, including the overall layout, form, arrangement, and composition of spaces and elements portrayed, constitute the original, unpublished Work of the Architect. Any reproduction, use, or disclosure of the information contained herein without the written consent of the Architect is strictly prohibited.

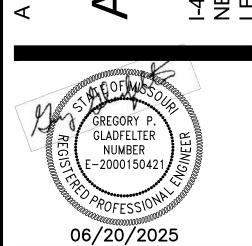
COMPLY WITH all laws, codes, ordinances and regulations with authorities having jurisdiction and with requirements of the Landlord, if applicable. Do not start Work until all permits and required approvals are obtained.

GE

U)

TER

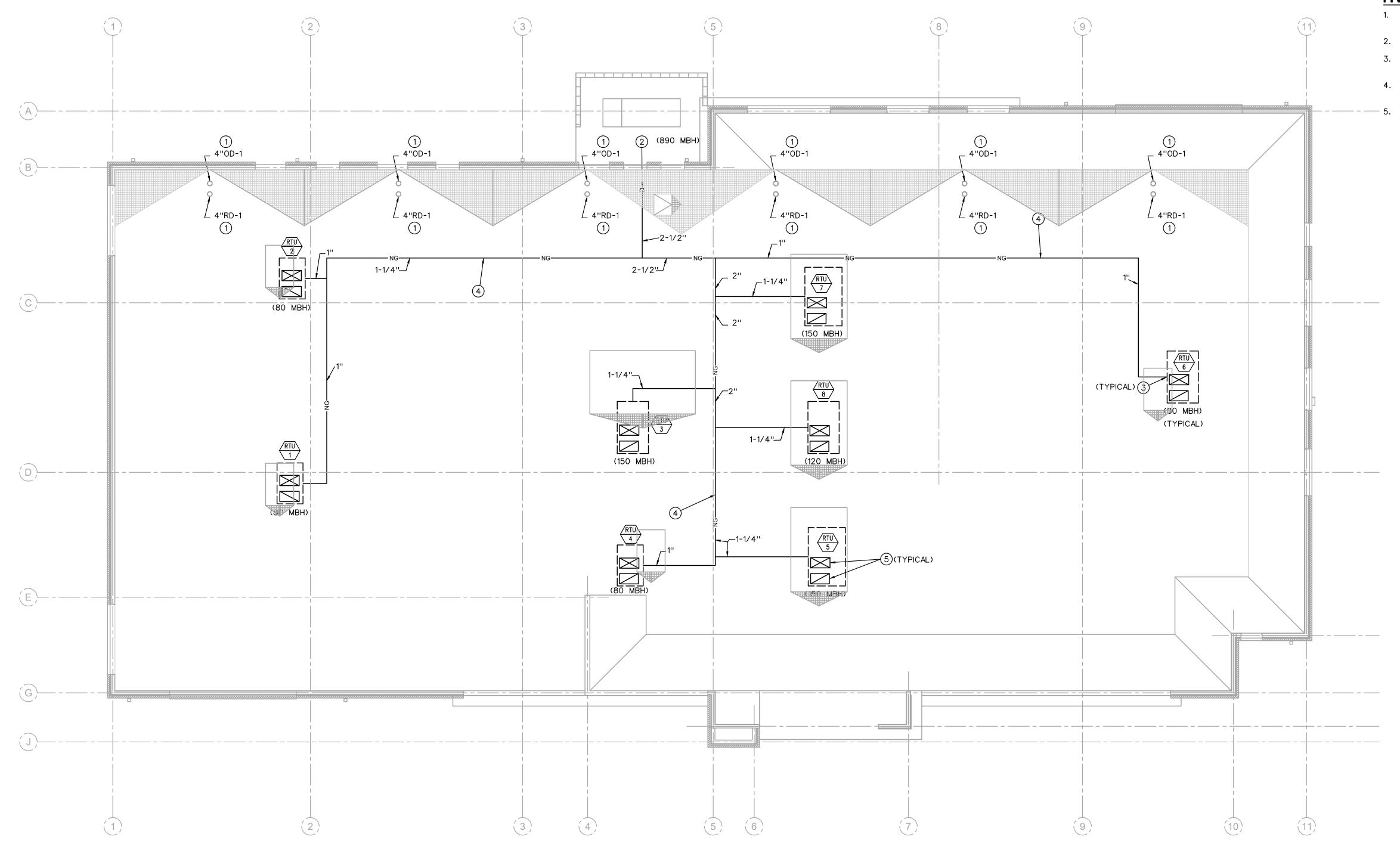
TECHNOL



PROJECT NO. 231206 DRAWING ISSUANCE BUILDING SHELL PERMIT 02/03/2025 BUILDING SHELL PERMIT

SHEET NUMBER

06/20/2025



HVAC/PLUMBING PLAN NOTES #:

- 1. SEE "PLUMBING ABOVE FLOOR PLAN", SHEET P200S, FOR DRAIN PIPING TO RD OR OD.
- 2. 2-1/2" NG FROM BELOW.
- 3. SEE "GAS EQUIPMENT CONNECTION DETAIL", THIS SHEET, FOR PIPING CONNECTION AT RTU.
- 4. NG PIPING RUNNING ACROSS ROOF. SEE "ROOF PIPE SUPPORT DETAIL", THIS SHEET.

 SA AND RA DOWN THROUGH ROOF. COORDINATE RTU LOCATION WITH STRUCTURAL ENGINEER. DEV

President & CEO

Kevin Campbell Senior Architect

8807 Monrovia Street Lenexa, Kansas 66215

Phone: 913.322.8882
Fax: 913.322.8886
Email: kevin@dev-inc.com

THIS DRAWING has been prepared by the Architect, or prepared under his direct supervision as an instrument of service and is intended for use only on this project. All Drawings, Specifications, ideas and designs, including the overall layout, form, arrangement, and composition of spaces and elements portrayed, constitute the original, unpublished Work of the Architect. Any reproduction, use, or disclosure of the information contained herein without the written consent of the Architect is strictly prohibited.

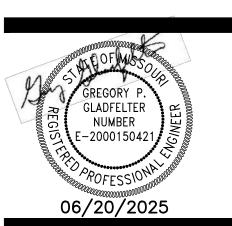
COMPLY WITH all laws, codes, ordinances and regulations with authorities having jurisdiction and with requirements of the Landlord, if applicable. Do not start Work until all permits and required approvals are obtained.

URGEONS

D PLASTIC SU

OCIALED

I-470 BUSINESS NE McBAIN DRIV



PROJECT NO. 231206

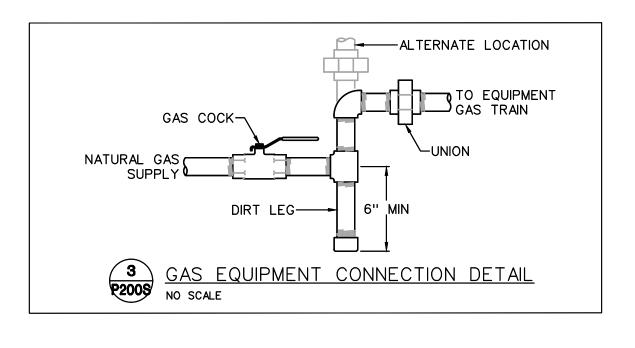
DRAWING ISSUANCE

| 127/2024 | BUILDING SHELL PERMIT | BUILDING SHELL PERMIT | BUILDING SHELL PERMIT | 120/2025 | REV 03

SHEET NUMBER

MP200S





12" x 12" x 3/8" — SUPPORT PAD *ACCESSORY ITEM*

> 3-R SPACER — *ACCESSORY ITEM*

ROOF PIPE SUPPORT DETAIL
NO SCALE

SIDE VIEW

ISOMETRIC VIEW

END VIEW

| DUCT | INSULA | ATION S | SCHEDUL | _E | | | NOTES |
|-----------------------------|--------|-----------|---------|-------|-----------|---------|-------|
| | INTER | RNAL INSU | LATION | EXTER | RNAL INSU | JLATION | |
| | 1/2" | 1" | OTHER | 1" | 2" | OTHER | |
| LOW VELOCITY DUCTS: | | | | | | | |
| RETURN DUCTS | | 0 | | | | | 1 |
| SUPPLY DUCTS (RECT.) | | 0 | | | | | |
| SUPPLY DUCTS (ROUND) | | | | | 0 | | 3,4 |
| EXHAUST DUCTS | 0 | | | 0 | | | 2 |
| OUTSIDE AIR DUCTS | | | | 0 | | | |
| RELIEF DUCTS | 0 | | | | | | 1 |
| MEDIUM/HIGH VELOCITY DUCTS: | | | | | | | |
| ROUND SUPPLY | | | | 0 | | | |
| FLAT OVAL SUPPLY | | | | 0 | | | |

- 1. INSULATION SHALL BE INSTALLED WHEN INDICATED OTHERWISE IN THE CONSTRUCTION DOCUMENTS. OTHERWISE, NO INSULATION IS REQUIRED.
- 2. INSULATION IS REQUIRED WITHIN 6'-O" OF TERMINATION POINT OF EXHAUST AIR. RECTANGULAR DUCTS SHALL BE LINED, ROUND DUCTS SHALL BE WRAPPED.
- 3. CONCEALED ROUND SUPPLY AIR DUCTS AND ROUND SUPPLY AIR DUCTS IN UNCONDITIONED SPACES SHALL BE INSULATED AS INDICATED AND SHALL INCLUDE A VAPOR BARRIER TO PREVENT CONDENSATION FROM FORMING ON COLD METAL SURFACES. NO INSULATION IS REQUIRED FOR ROUND SUPPLY AIR DUCT EXPOSED IN CONDITIONED SPACES UNLESS INDICATED OTHERWISE.
- 4. AT CONTRACTORS OPTION, GALVANIZED STEEL ROUND DOUBLE WALL DUCT MAY BE USED WHERE ROUND SUPPLY AIR DUCTS ARE REQUIRED TO BE INSULATED. DOUBLE WALL DUCT SHALL BE LINX LINDLAB SPIRO-SAFE SPIRAL LOCKSEAM DUCTWORK. SEE THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- 5. AT CONTRACTOR'S OPTION, ROUND DUCT LINER MAY BE USED WHERE ROUND SUPPLY AIR DUCTS ARE REQUIRED TO BE INSULATED. DUCT LINER SHALL BE JOHNS MANVILLE SPIRACOUSTIC PLUS, OR APPROVED EQUAL, 1.5" THICK (R6.4). SEE THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.



PLUMBING SPECIFICATION

- INSTALLATION SHALL BE IN ACCORDANCE WITH THE 2018 INTERNATIONAL PLUMBING CODE, NFPA 90A AND 101 AND ALL STATE AND LOCAL CODES, ORDINANCES AND REGULATIONS.
- 2. ALL WATER BEARING PIPING SHALL BE SLOPED FOR DRAINAGE WITH BALL DRAIN VALVES AT LOW POINTS.
- DRAINAGE PIPING SHALL BE SLOPED IN ACCORDANCE WITH CODE, BUT NOT LESS THAN 1/8" PER FOOT FOR 3" AND LARGER PIPING AND 1/4" PER FOOT FOR 2-1/2" AND SMALLER PIPING. ALL INVERT ELEVATIONS SHALL BE COORDINATED WITH THE STRUCTURAL FOOTINGS.
- 4. PROVIDE DIELECTRIC UNIONS AT ALL CONNECTIONS BETWEEN DISSIMILAR METALS.
- CAULK AND SEAL ALL DUCT AND PIPING PENETRATIONS OF EXTERIOR OR DEMISING WALLS.
- 6. ABOVE GROUND WASTE AND VENT PIPING SHALL BE SCHEDULE 40 PVC WITH SOLVENT CEMENT JOINTS, EXCEPT USE STANDARD WEIGHT NO-HUB CAST IRON IN AIR PLENUMS. VENT PIPING MAY BE SCHEDULE 40 GALVANIZED STEEL WITH SCREWED JOINTS. PAINT ALL EXTERIOR PIPING WITH UV RESISTANT PAINT.
- 7. ABOVE GROUND WATER PIPING SHALL BE COPPER.
- 8. SERVICE VALVES FOR WATER PIPING SYSTEMS UP THRU 2" SHALL BE 1/4 TURN, 150 LB. BALL VALVE WITH BRONZE CHROME PLATED BALL AND TFE SEATS, NIBCO S-585-70.
- 9. COPPER DOMESTIC WATER PIPING SHALL BE INSULATED WITH 1" FIBERGLASS WITH ALL SERVICE JACKET OR COMPARABLE UNICELLULAR INSULATION WITH SMOKE/FLAME RATING OF 25/50. WHEN INSTALLED WITHIN A CHASE ALONG AN EXTERIOR WALL, THE INSULATION SHALL BE 1-1/2" FIBERGLASS AND THE PIPING SHALL BE LOCATED ON THE INTERIOR SIDE OF THE BUILDING WALL INSULATION.
- 10. NATURAL GAS PIPING (ABOVE GROUND) SHALL BE SCHEDULE 40 BLACK STEEL WITH THREADED JOINTS. CONNECT USING JOINT COMPOUND SUITABLE FOR NATURAL GAS PIPING. ALL EXPOSED BLACK STEEL NATURAL GAS PIPING SHALL BE PROTECTED WITH A RUST INHIBITING COATING IN ACCORDANCE WITH THE PLUMBING CODE.
- 11. SERVICE VALVES FOR WATER PIPING SYSTEMS UP THRU 2" SHALL BE 1/4 TURN, 150 LB. BALL VALVE WITH BRONZE CHROME PLATED BALL AND TFE SEATS, NIBCO S-585-70.
- 12. GAS SERVICE VALVES TO BE LUBRICATED PLUG COCKS, ROCKWELL 142 OR 143. CONNECTIONS TO EQUIPMENT SHALL HAVE SERVICE VALVES, 6" MINIMUM DIRT LEG AND UNION OR AT CONTRACTOR OPTION, UL LISTED APPLIANCE FLEXIBLE CONNECTORS MAY BE USED.
- 13. PROVIDE PLUMBING DRAINAGE FIXTURES AS SCHEDULED OR SELECTED BY OWNER WITH ALL REQUIRED TRIM AND ACCESSORIES FOR A COMPLETE WORKING AND CODE COMPLIANT INSTALLATION. REFER TO THE ARCHITECTURAL PLANS FOR EXACT LOCATION OF THE DRAINAGE FIXTURES.
- 14. TEST AND CLEAN PIPING SYSTEMS PER INDUSTRY STANDARDS. PRESSURE TEST OF PRESSURE PIPING SHALL BE AT 1-1/2 TIMES THE ANTICIPATED OPERATING PRESSURE, BUT NOT LESS THAN 50 PSIG FOR 2 HOURS. NON-PRESSURIZED SYSTEMS SHALL BE TESTED WITH 10' WATER COLUMN ABOVE NORMAL OPERATING CONDITIONS OR 5 PSI FOR 2 HOURS. THERE SHALL BE NO MEASURABLE DROP DURING THE TEST PERIOD.

MECHANICAL SPECIFICATION

- INSTALLATION SHALL BE IN ACCORDANCE WITH THE 2018 INTERNATIONAL MECHANICAL AND FUEL GAS CODES, NFPA 90A AND 101 AND ALL STATE AND LOCAL CODES, ORDINANCES AND REGULATIONS.
- 2. COORDINATE EXACT LOCATIONS AND ORIENTATION OF EQUIPMENT WITH ARCHITECTURAL AND STRUCTURAL REQUIREMENTS. EQUIPMENT SHALL BE SCREENED IN ACCORDANCE WITH LOCAL JURISDICTION REQUIREMENTS AND AS SHOWN ON ARCHITECTURAL DRAWINGS.
- 3. DUCTWORK FABRICATION AND INSTALLATION SHALL BE IN ACCORDANCE WITH SMACNA STANDARDS.
- 4. ALL DUCTWORK SHALL BE SHEET METAL, CONSTRUCTED TO SMACNA STANDARDS, MINIMUM OF 2" WG PRESSURE CLASS AND SEAL CLASS 'C' MINIMUM. ALL LONGITUDINAL AND TRANSVERSE JOINTS TO BE SEALED, EXCEPT AS OTHERWISE NOTED. ROUND AND FLEX DUCT CONNECTIONS SHALL BE MADE WITH SPIN COLLARS WITH EXTRACTORS AND VOLUME DAMPERS.
- 5. RECTANGULAR DUCT SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS. CONTRACTOR SHALL INCLUDE AN ALLOWANCE FOR 1" DUCT LINER IN LOW VELOCITY DUCTS WHERE APPLICABLE. CONCEALED ROUND DUCTS SHALL BE INSULATED WITH 2" DUCT WRAP. EXPOSED ROUND DUCTS DO NOT NEED TO BE INSULATED.
- 6. PROVIDE FLEXIBLE FABRIC CONNECTORS AT ALL DUCTWORK CONNECTIONS TO ROTATING EQUIPMENT. CONNECTORS EXPOSED TO SUNLIGHT SHALL BE MADE OF UV RESISTANT MATERIAL.
- 7. TRAP ALL CHILLED CONDENSATE DRAINS AS DETAILED OR AS REQUIRED. PROVIDE A TRAP DEPTH 1" GREATER THAT SYSTEM FAN DEVELOPED STATIC PRESSURE. INSURE AND CERTIFY THAT CONDENSATE DRAINS ARE POSITIVELY SLOPED AT 1"/20' MINIMUM IN DIRECTION OF FLOW.
- 8. ALL ROOF MOUNTING, FLASHINGS AND PENETRATION WORK ASSOCIATED WITH MECHANICAL AND PLUMBING WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE ROOFING MANUFACTURER'S WARRANTY REQUIREMENTS.
- 9. TEST AND CLEAN PIPING SYSTEMS PER INDUSTRY STANDARDS, PRESSURE TEST OF PRESSURE PIPING SHALL BE AT 1-1/2 TIMES THE ANTICIPATED OPERATING PRESSURE, BUT NOT LESS THAN 50 PSIG FOR 2 HOURS. NON-PRESSURIZED SYSTEMS SHALL BE TESTED WITH 10' WATER COLUMN ABOVE NORMAL OPERATING CONDITIONS OR 5 PSI FOR 2 HOURS. THERE SHALL BE NO MEASURABLE DROP DURING THE TEST PERIOD.
- 10. TEST AND BALANCE ALL SYSTEMS.

10. DISABLE ECONOMIZER IF ONE EXISTS. OA VOLUME CALCULATED PER "MO DEPARTMENT OF HEALTH AND SENIOR SERVICES" REQUIREMENTS

11. INFORMATION FROM ORIGINAL CONSTRUCTION DOCUMENTS FOR THIS SPACE USED TO POPULATE THIS SCHEDULE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND NOTIFY ARCHITECT OF ANY DISCREPENCY.

PLUMBING DRAINAGE FIXTURE SCHEDULE

- INSTALL PLUMBING FIXTURES AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. VERIFY ROUGH-IN REQUIREMENTS WITH MANUFACTURER'S DRAWINGS AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE WATER-CONSERVING FIXTURES AND APPURTENANCES IF/AS REQUIRED BY LOCAL AUTHORITIES. CONFIRM ALL LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECTURAL DRAWINGS AND/OR SPECIFICATIONS. CAULK FIXTURES TO WALLS/FLOORS. SET COUNTER MOUNTED SINKS AND LAVATORIES IN A BED OF CAULK. THE SPECIFIED PLUMBING FIXTURES, OR APPROVED EQUALS, SHALL BE USED UNLESS OTHERWISE NOTED OR INDICATED.
- B. ROOF DRAINS (RD-1) WADE #3000-32CAST IRON ROOF DRAIN WITH FLANGE, FLASHING RING WITH GRAVEL STOP AND POLY LOCKING DOME STRAINER. SMITH FIGURE 1010_YE OR 1010_E (OR APPROVED EQUAL) WITH UNDERDECK CLAMP (WHERE REQUIRED), SUMP RECEIVER, EXTENSION SLEEVE (FOR INSULATED ROOFS), SECONDARY FLASHING DEVICE (IF REQUIRED) AND 16" DIAMETER ROUND TOP.
- C. OVERFLOW ROOF DRAINS (OD-1) WADE #3000-32-D CAST IRON ROOF DRAIN WITH FLANGE FLASHING RING WITH GRAVEL STOP, 2" HIGH DAM AND POLY LOCKING DOME STRAINER. J.R. SMITH FIGURE 1080_YE OR 1080_E (OR APPROVED EQUAL). WITH UNDERDECK CLAMP (WHERE REQUIRED), SUMP RECEIVER, EXTENSION SLEEVE (FOR INSULATED ROOFS), SECONDARY FLASHING DEVICE (IF REQUIRED) AND 16" DIAMETER ROUND TOP.
- D. DOWNSPOUT NOZZLES (DS-1) WADE #3940-3 ROUGH BRONZE DOWNSPOUT NOZZLE WITH FLANGE TO SECURE NOZZLE TO SECURE TO WALL. THREADED CONNECTIONS.
- E. FINISHED FLOOR CLEANOUTS; (FFCO) WADE #6000-1-2-S CAST IRON FLOOR CLEANOUT WITH FLANGE, PLASTIC TAPERED PLUG AND SQUARE NICKEL BRONZE ADJUSTABLE TOP. PROVIDE WITH CARPET CLEANOUT MARKER WHEN CLEANOUT IS LOCATED BELOW CARPET. COORDINATE WITH ARCHITECTURAL PLANS.
- F. FINISHED WALL CLEANOUTS: (FWCO) WADE #8560, W/ 8304-85-6 CAST IRON CLEANOUT TEE WITH BRASS PLUG AND 6" ROUND STAINLESS STEEL ACCESS COVER. J.R. SMITH FIGURE 4530. PROVIDE DUCO CAST IRON WALL CLEANOUT TEE WITH COUNTERSUNK PLUG. DELETE COVER PLATE IF CLEANOUT IS IN EXPOSED LOCATION.

HVAC SYSTEM SAFETY CONTROLS

1. DUCT SMOKE DETECTORS SHALL BE FURNISHED BY THE HVAC CONTRACTOR. SEE ELECTRICAL FOR INTEGRATION OF ALL SMOKE DETECTION AND SHUTDOWN OF EQUIPMENT. ALL HVAC EQUIPMENT IN EXCESS OF 2000 CFM SHALL BE EQUIPPED WITH SMOKE DETECTORS IN THE RETURN AIR STREAM OF THE UNIT. WHERE MULTIPLE HVAC UNIT FANS SHARE A COMMON RETURN AIR PLENUM (IN EXCESS OF 2,000 CFM COMBINED), ALL HVAC UNITS (INCLUDING VAV BOX FANS OR OTHER FANS ASSOCIATED WITH THE PLENUM) SHALL BE PROVIDED WITH A SMOKE DETECTOR. WHERE DUCT MOUNTED DETECTORS ARE SHOWN OR REQUIRED, USE DUCT INSERTION TUBE TYPE DETECTORS. IF FIRE ALARM SYSTEM IS INSTALLED, COORDINATE TYPE OF SMOKE DETECTOR WITH THE FIRE ALARM CONTRACTOR. IF A FIRE ALARM SYSTEM IS NOT PROVIDED, COORDINATE INSTALLATION OF A STROBE/HORN WITH THE ELECTRICAL CONTRACTOR TO NOTIFY OCCUPANTS OF THE SENSING OF SMOKE AT A SMOKE DETECTOR.

Dev Anand President & CEO

Kevin Campbell Senior Architect

8807 Monrovia Street Lenexa, Kansas 66215

913.322.8882 Phone: Fax: 913.322.8886 Email: kevin@dev-inc.com

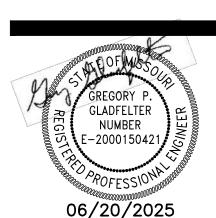
THIS DRAWING has been prepared by the Architect, o prepared under his direct supervision as an instrument of service and is intended for use only on this project. A Drawings, Specifications, ideas and designs, including the overall layout, form, arrangement, and composition of spaces and elements portrayed, constitute the original, unpublished Work of the Architect. Any reproduction, use, or disclosure of the information contained herein without the written consent of the Architect is strictly prohibited.

COMPLY WITH all laws, codes, ordinances and regulations with authorities having jurisdiction and with requirements of the Landlord, if applicable. Do not start Work until all permits and required approvals are obtained.

($\sum_{i=1}^{n} \sum_{j=1}^{n} a_{ij}$

Ш

Ш



PROJECT NO. 231206 DRAWING ISSUANCE

BUILDING SHELL PERMIT

SHEET NUMBER

ROOFTOP UNIT SCHEDULE (GAS-FIRED) HEATING ARRANGEMENT DISCHARGE ECONOMIZER LOCATION | MANUFACTURER REMARKS WEIGHT MIN. FAN EVAP. AMBIENT | EDB | EWB | LDB | LWB | TOTAL | SENS. | MAX INPUT **butput** S.P. STAGES STAGES VOLT | HZ | MCA | MOCP | | °F | °F | °F | °F O.A. TYPE SIZE MBH MBH MBH MBH IN. W.G. 1-7,9 1325 RTU-1 ROOF YHK036A4S0L HORIZ. DOWN 1.0 105 | 72.3 | 64.5 | 57.8 | 55.8 | 33.4 | 19.8 13.0 64.8 480 60 | 11.0 | 15.0 | 807 1-7,9 15.0 RTU-2 ROOF TRANE YHK036A4S0L HORIZ. DOWN 13.0 460 150 1-9 RTU-3 ROOF TRANE YSK150A4S0L HORIZ. DOWN 4000 0.5 105 | 84.2 | 69.7 | 60.3 | 58.4 | 137.2 | 95.3 10.8 121.5 460 45 1326 1-7 1390 RTU-4 ROOF TRANE YHK036A4S0L HORIZ. DOWN 0.5 901 105 | 77.7 | 65.7 | 59.3 | 57.28 | 34.9 | 26.47 13.0 80 64.8 60 | 11.0 | 15.0 | 807 5235 77.0 | 64.8 | 59.8 |56.71| 135.11 | 100.7 1-8 RTU-5 ROOF TRANE YSK150A4S0L HORIZ. DOWN 105 10.8 150 121.5 460 1650 76.8 | 66.3 | 57.8 | 56.5 | 45.50 | 30.60 RTU-6 HORIZ. DOWN 105 13.0 460 ROOF YHK048A4S0L | 78.5 | 66.3 | 59.26 | 56.46 | 138.01 | 93.6 1-8 5.0 | 105 RTU-7 ROOF HORIZ. DOWN 4330 0.50 1432 10.8 150 | 121.5 | 460 60 | 33 1451 YSK150A4S0L 105 80 | 67 | 58.5 | 57.3 | 102.9 | 75.7 1-8 RTU-8 120 97.2 480 1091 ROOF HORIZ. DOWN YSK102A4S0L

- PROVIDE 2' MERV 8 THROWAWAY AIR FILTERS.
- PROVIDE 14" HIGH INSULATED ROOF CURB.
- PROVIDE WITH ENTHALPY ECONOMIZER
- PROVIDE WITH 7 DAY PROGRAMMABLE THERMOSTAT WITH STAGED HEATING AND COOLING CAPABILITY AS REQUIRED FOR OPERATION OF AUXILIARY HEATING, COOLING AND ECONOMIZER CONTROLS.
- PROVIDE FLEXIBLE DUCT CONNECTORS AT ALL DUCT TO UNIT CONNECTIONS.
- PROVIDE FUSED DISCONNECT SWITCH.
- MINIMUM OA SETTING SHALL BE DETERMINED DURING TENANT IMPROVEMENT PHASE.
- 8. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL SMOKE DETECTORS IN SUPPLY AIR AND RETURN AIR DUCTS..
- 9. PROVIDE LOW AMBIENT CONTROL TO 0 DEGREES F.



Dev Anand President & CEO

Kevin Campbell Senior Architect

8807 Monrovia Street Lenexa, Kansas 66215

913.322.8882 Phone: 913.322.8886 Email: kevin@dev-inc.com

THIS DRAWING has been prepared by the Architect, or prepared under his direct supervision as an instrument of service and is intended for use only on this project. All Drawings, Specifications, ideas and designs, including the overall layout, form, arrangement, and composition of spaces and elements portrayed, constitute the original, unpublished Work of the Architect. Any reproduction, use, or disclosure of the information contained herein without the written consent

COMPLY WITH all laws, codes, ordinances and regulations with authorities having jurisdiction and with requirements of the Landlord, if applicable. Do not start Work until all permits and required approvals are obtained.

of the Architect is strictly prohibited.

SURGEON

GREGORY GLADFELTER NUMBER -2000150421

06/06/2025 PROJECT NO. 231206 DRAWING ISSUANCE 09/27/2024 06/20/2025

SHEET NUMBER



0.0 0 1 0.2 0.3 0.3 0.3 0.3 0.3 0.3 0.2 0.

10.0 0.0 10.3 1.2 1.3 1.5 1.3 1.2 1.3 1.6 1.8 1.8 1.1 1.4 1.4 1.6 1.2 1.6 1.2 1.6 1.2 1.6 1.2 1.6 1.6 1.8 1.

0.0 0.0 1.4 STM 2.0 2.2 2.1 1.8 1.5 1.5 1.6 1.7 2.0 2.3 2.5 2.2 1.9 1.5 1.5 1.6 1.7

1.7 5 2.5 5 2.6 2.2 1.4 4 1.4 2 0stm 2.7 3.2 2.7 2.0 1.5 | 1.2

PHOTOMETRIC SITE PLAN

DSX1 LED P3 40K 80CRI BLC3

Description

0.0 0.1 0.4 0.5 0.5 0.6

0.0 | 0.1 | 1.8 2.7 2.7 2.2 1.6 1.8

t.0 t.1 2.0 \ 2.5 2.5 2.2 1.5 t.9

0.4 2.3 2.5 2.6 2.2 1.4 0.8

to 00 1.4 2.4 2.9 2.3 1.8 1.1 5.6 6

 $0.0 \mid 0.1 \quad 2.2 \quad 2.4 \quad 2.4 \quad 2.3 \quad 1.5$

0.0 0 2.4 2.6 2.8 2.4 1.5

0.0 0.0 2.2 2.7 24 2.0 1.2 0.7 0.

to.0 0.0 | 1.7 2.6 2.8 2.3 \1.7 1.0 to.5

\$\begin{pmatrix} \psi_0.0 \\ \

(5)0 | 0.1 | 2.0 2.3 2.5 2.4 1.6 0.9

 $0.0 \quad 0 \quad 0 \quad 1.4 \quad 2.1 \quad 2.6 \quad 2.0 \quad 1.5 \quad 0.9 \quad 0.5$

CalcType Illuminance

Luminaire Schedule

Calculation Summary

Qty Label

 $0.1 \quad 2.1 \quad 2.4 \quad 2.7 \quad 2.5 \quad 1.6 \quad 5$

t.3 1.9 2.5 2.3 1.9 1.2 t.7

1.5 1.9 2.1 1.9 1.3 0.8 0.4

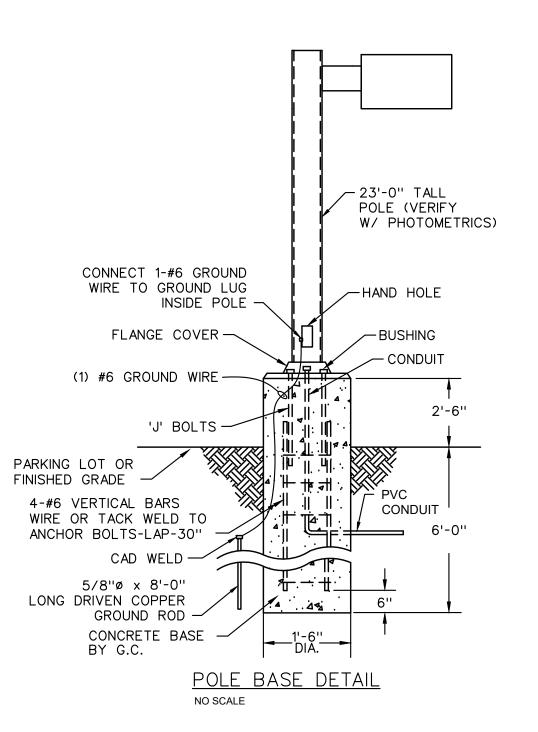
Arrangement

 0
 7
 0
 8
 1.2
 1.6
 1.8
 1.6
 1.6
 1.2
 0.6
 0.2
 0.1
 0.0

1.2 1.9 2.0 2.3 $\frac{1}{2.3}$ $\frac{1}{2.9}$ $\frac{1}{2.9}$

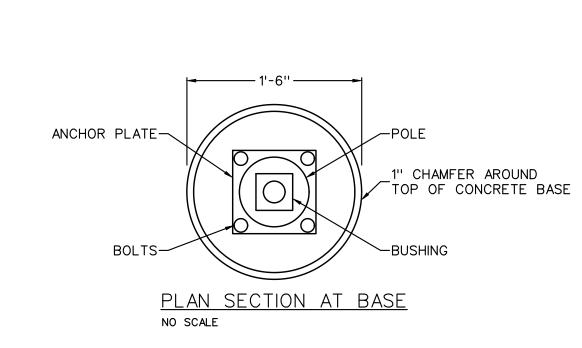






Luminaire Luminaire Total Lumens Watts Watts

12 108 73.2 146.4 102.17 408.68





Gladfelter Engineering Group assumes design responsibility for this project for only the mechanical, plumbing and electrical disciplines with drawing sheet number beginning with M, P mechanical, plumbing and electrical disciplines with drawing sheet number beginning with M, P and E. All other drawings should be considered the work of others. Further, drawings in this project set may contain drawing information, including but not limited to: architectural plans, sections and elevations, site plans and surveys and other information pertinent to showing the mechanical, plumbing and electrical work which is furnished by others, generally indicated by screened or light type. Gladfelter Engineering Group assumes no responsibility or liability for the accuracy or regulatory compliance for work prepared by others even though shown on MPE drawings. Gladfelter Engineering Group assumes responsibility only for the design of mechanical, plumbing and electrical disciplines contained herein, generally indicated in bold type. 10233 Millstone Drive, #4112 Lenexa, Kansas 66220 Phone: 816-916-4675 Email gpg@gegrp.net

Dev Anand President & CEO

> Kevin Campbell Senior Architect

8807 Monrovia Street Lenexa, Kansas 66215

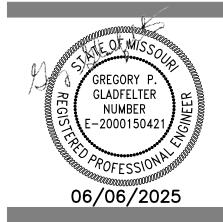
913.322.8882 Phone: 913.322.8886 Email: kevin@dev-inc.com

THIS DRAWING has been prepared by the Architect, or prepared under his direct supervision as an instrument of service and is intended for use only on this project. All Drawings, Specifications, ideas and designs, including the overall layout, form, arrangement, and composition of spaces and elements portrayed, constitute the original, unpublished Work of the Architect. Any reproduction, use, or disclosure of the information contained herein without the written consent of the Architect is strictly prohibited.

COMPLY WITH all laws, codes, ordinances and regulations with authorities having jurisdiction and with requirements of the Landlord, if applicable.

Do not start Work until all permits and required approvals are obtained.

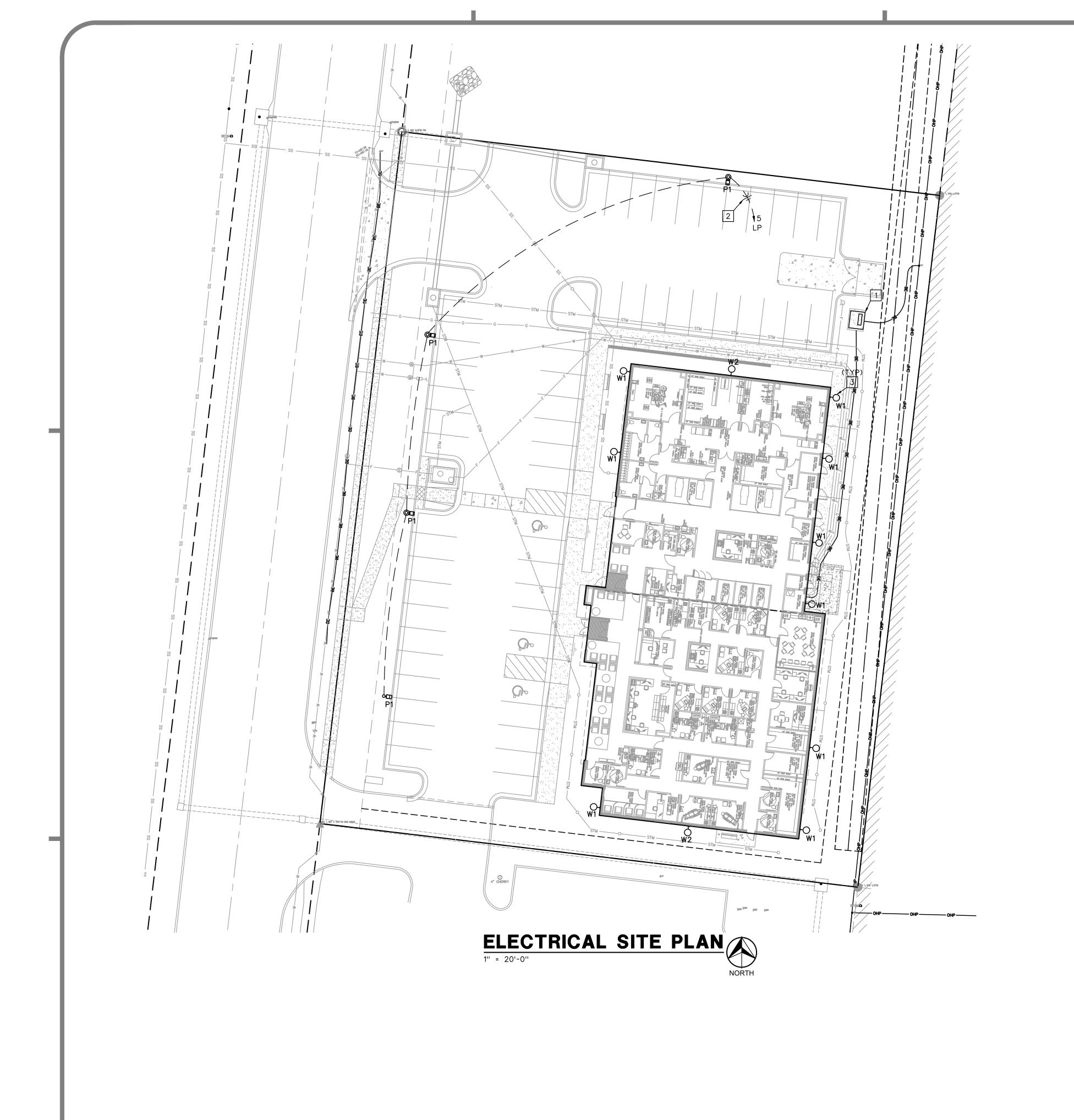
SURGEON



PROJECT NO. 231206

DRAWING ISSUANCE 09/27/2024 06/20/2025

SHEET NUMBER



Gladfelter Engineering Group

Gladfelter Engineering Group assumes design responsibility for this project for only the mechanical, plumbing and electrical disciplines with drawing sheet number beginning with M, P and E. All other drawings should be considered the work of others. Further, drawings in this project set may contain drawing information, including but not limited to: architectural plans, sections and elevations, site plans and surveys and other information pertinent to showing the mechanical, plumbing and electrical work which is furnished by others, generally indicated by screened or light type. Gladfelter Engineering Group assumes no responsibility or liability for the accuracy or regulatory compliance for work prepared by others even though shown on MPE drawings. Gladfelter Engineering Group assumes responsibility only for the design of mechanical, plumbing and electrical disciplines contained herein, generally indicated in bold type. 10233 Millstone Drive, #4112 Lenexa, Kansas 66220 Phone: 816-916-4675 Email gpg@gegrp.net

ELECTRICAL SITE PLAN NOTES #

LIGHTING.

LOCATION OF 750KVA UTILITY COMPANY TRANSFORMER. SEE 'ELECTRICAL RISER DIAGRAM', SHEET E3.0S, FOR INFORMATION.

3. SEE 'LIGHTING FLOOR PLAN', SHEET E2.1S, FOR CONNECTION OF BUILDING

2. INSTALL #10 (CU) WIRE THROUGHOUT ENTIRE LENGTH OF CIRCUIT RUN.

- 1. 1" CONDUIT INSTALLED BELOW GRADE FOR DATA CABLES AT NURSES STATION. STUB CONDUIT UP 6" AT BOTH ENDS, INSTALL PULL-STRING AND CAP AT BOTH ENDS FOR FUTURE USE. VERIFY EXACT LOCATION WITH ARCHITECTURAL TENANT DRAWINGS.
- 2. 1" CONDUIT INSTALLED BELOW GRADE FOR WIRING OF RECEPTACLES AT NURSES STATION. STUB CONDUIT UP 6" AT BOTH ENDS, INSTALL PULL-STRING AND CAP AT BOTH ENDS FOR FUTURE USE. VERIFY
- 3. INSTALL OUTLET BOX FOR RECEPTACLE WITH TOP FLUSH TO BOTTOM
- 4. INSTALL OUTLET BOX FOR WIRING DEVICE AT 42" AFF.

ELECTRICAL GENERAL NOTES

- A) SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF LIGHT FIXTURES.
- B) COORDINATE NEMA RATING OF APPLIANCE PLUGS WITH THE EQUIPMENT
- C) ALL RECEPTACLES WITHIN 6' OF WATER BEARING FIXTURES, EXTERIOR OUTLETS AND ALL OUTLETS IN KITCHEN AREAS SHALL BE GFI STYLE OR THE CIRCUIT SERVING THOSE DEVICES SHALL BE PROTECTED BY MEANS OF A GFI CIRCUIT BREAKER.
- D) OUTLET AND SWITCH BOXES INSTALLED IN RATED WALLS SHALL BE PROVIDED WITH UL LISTED PUTTY PADS TO PROTECT THE RATING OF
- E) CONNECT ALL NIGHT LIGHT, EXIT LIGHT AND EMERGENCY LIGHT FIXTURES TO UNSWITCHED HOT-LEG OF NEAREST 120V LIGHTING CIRCUIT IN SAME AREA.
- F) CONDUIT INSTALLED IN AREAS OF BUILDINGS OR PORTIONS OF BUILDINGS WHERE MEDICAL CARE IS PROVIDED SHALL BE MEDICAL GRADE CONDUIT AND THE INSTALLATION SHALL CONFORM WITH CHAPTER 517 OF THE NEC (HEALTH CARE FACILITIES).
- G) THE ELECTRICAL CONTRACTOR SHALL CONSULT WITH OTHER SUB-CONTRACTORS PROVIDING ENERGIZED EQUIPMENT TO ASSURE THAT ASSOCIATED ELECTRICAL EQUIPMENT MATCHES THE CHARACTERISTICS OF THE EQUIPMENT BEING PROVIDED.

Gladfelter Engineering Group

Gladfelter Engineering Group assumes design responsibility for this project for only the mechanical, plumbing and electrical disciplines with drawing sheet number beginning with M, P and E. All other drawings should be considered the work of others. Further, drawings in this project set may contain drawing information, including but not limited to: architectural plans, sections and elevations, site plans and surveys and other information pertinent to showing the mechanical, plumbing and electrical work which is furnished by others, generally indicated by screened or light type. Gladfelter Engineering Group assumes no responsibility or liability for the accuracy or regulatory compliance for work prepared by others even though shown on MPE drawings. Gladfelter Engineering Group assumes responsibility only for the design of mechanical, plumbing and electrical disciplines contained herein, generally indicated in bold type.

POWER FLOOR PLAN NOTES #

Lee's Summit, I

CONSTRUCTION



President & CEO

Kevin Campbell

Senior Architect

8807 Monrovia Street Lenexa, Kansas 66215

913.322.8882 Phone:

913.322.8886 kevin@dev-inc.com Email:

THIS DRAWING has been prepared by the Architect, or prepared under his direct supervision as an instrument of service and is intended for use only on this project. All Drawings, Specifications, ideas and designs, including the overall layout, form, arrangement, and composition of spaces and elements portrayed, constitute the original, unpublished Work of the Architect. Any reproduction, use, or disclosure of the information contained herein without the written consent of the Architect is strictly prohibited.

COMPLY WITH all laws, codes, ordinances and regulations with authorities having jurisdiction and with requirements of the Landlord, if applicable. Do not start Work until all permits and required approvals are obtained.

SURGEON

GREGORY GLADFELTER NUMBER :-2000150421**/** 06/06/2025

PROJECT NO. 231206 DRAWING ISSUANCE

8807 Monrovia Street Lenexa, Kansas 66215

Dev Anand President & CEO

Kevin Campbell Senior Architect

913.322.8882 Phone: 913.322.8886 Email: kevin@dev-inc.com

CONSTRUCTION

Lee's Summit, I

THIS DRAWING has been prepared by the Architect, or prepared under his direct supervision as an instrument of service and is intended for use only on this project. All Drawings, Specifications, ideas and designs, including the overall layout, form, arrangement, and composition of spaces and elements portrayed, constitute the original, unpublished Work of the Architect. Any reproduction, use, or disclosure of the information contained herein without the written consent of the Architect is strictly prohibited.

COMPLY WITH all laws, codes, ordinances and regulations with authorities having jurisdiction and with requirements of the Landlord, if applicable. Do not start Work until all permits and required approvals are obtained.

SURGEONS

GREGORY GLADFELTER NUMBER E-2000150421

06/06/2025

PROJECT NO. 231206 DRAWING ISSUANCE 03/06/2025 🚹 CITY COMMENTS

04/11/2025 🛕 CITY COMMENTS 06/20/2025

SHEET NUMBER

- A) SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF LIGHT FIXTURES.
- B) COORDINATE NEMA RATING OF APPLIANCE PLUGS WITH THE EQUIPMENT
- C) ALL RECEPTACLES WITHIN 6' OF WATER BEARING FIXTURES, EXTERIOR OUTLETS AND ALL OUTLETS IN KITCHEN AREAS SHALL BE GFI STYLE OR THE CIRCUIT SERVING THOSE DEVICES SHALL BE PROTECTED BY
- D) OUTLET AND SWITCH BOXES INSTALLED IN RATED WALLS SHALL BE PROVIDED WITH UL LISTED PUTTY PADS TO PROTECT THE RATING OF
- E) CONNECT ALL NIGHT LIGHT, EXIT LIGHT AND EMERGENCY LIGHT FIXTURES TO UNSWITCHED HOT-LEG OF NEAREST 120V LIGHTING CIRCUIT IN SAME AREA.
- F) CONDUIT INSTALLED IN AREAS OF BUILDINGS OR PORTIONS OF BUILDINGS WHERE MEDICAL CARE IS PROVIDED SHALL BE MEDICAL GRADE CONDUIT AND THE INSTALLATION SHALL CONFORM WITH CHAPTER 517 OF THE NEC (HEALTH CARE FACILITIES).
- G) THE ELECTRICAL CONTRACTOR SHALL CONSULT WITH OTHER SUB-CONTRACTORS PROVIDING ENERGIZED EQUIPMENT TO ASSURE THAT ASSOCIATED ELECTRICAL EQUIPMENT MATCHES THE CHARACTERISTICS OF THE EQUIPMENT BEING PROVIDED.

Gladfelter Engineering Group assumes design responsibility for this project for only the mechanical, plumbing and electrical disciplines with drawing sheet number beginning with M, P

Gladfelter Engineering Group

sections and elevations, site plans and surveys and other information pertinent to showing the mechanical, plumbing and electrical work which is furnished by others, generally indicated by screened or light type. Gladfelter Engineering Group assumes no responsibility or liability for the accuracy or regulatory compliance for work prepared by others even though shown on MPE drawings. Gladfelter Engineering Group assumes responsibility only for the design of mechanical, plumbing and electrical disciplines contained herein, generally indicated in bold type. 10233 Millstone Drive, #4112 Lenexa, Kansas 66220 Phone: 816-916-4675

and E. All other drawings should be considered the work of others. Further, drawings in this project set may contain drawing information, including but not limited to: architectural plans,

SYSTEMS POWER FLOOR PLAN NOTES#

- 1. 30A/3P, NON-FUSED, NEMA 3R DISCONNECT SWITCH INSTALLED ON SIDE OF UNIT. DO NOT INSTALL ON ACCESS PANEL.
- 2. 60A/3P, NON-FUSED, NEMA 3R DISCONNECT SWITCH INSTALLED ON SIDE
- OF UNIT. DO NOT INSTALL ON ACCESS PANEL.

 3. 3/4" CONDUIT WITH 3-#8 (CU) AND 1-#10 (CU) EQUIPMENT GROUNDING
- CONDUCTOR.
- 4. WP/GF RECEPTACLE INSTALLED ON SIDE OF UNIT. DO NOT INSTALL ON ACCESS PANEL.

Dev Anand President & CEO

CONSTRUCTION

Lee's Summit,

Kevin Campbell Senior Architect

8807 Monrovia Street

Lenexa, Kansas 66215

 Phone:
 913.322.8882

 Fax:
 913.322.8886

 Email:
 kevin@dev-inc.com

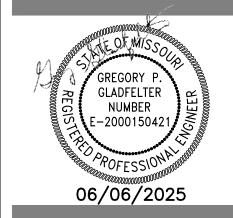
THIS DRAWING has been prepared by the Architect, or prepared under his direct supervision as an instrument of service and is intended for use only on this project. All Drawings, Specifications, ideas and designs, including the overall layout, form, arrangement, and composition of spaces and elements portrayed, constitute the original, unpublished Work of the Architect. Any reproduction, use, or disclosure of the information contained herein without the written consent of the Architect is strictly prohibited.

COMPLY WITH all laws, codes, ordinances and regulations with authorities having jurisdiction and with requirements of the Landlord, if applicable. Do not start Work until all permits and required approvals are obtained.

ASTIC SURGEONS

SOCIATED

I-470 BUSIN



PROJECT NO. 231206

PROJECT NO. 231206

DRAWING ISSUANCE

DRAVVING ISSUANCE
9/27/2024 SHELL PER
6/20/2025 REV

SHEET NUMBER

E2.2S

ELECTRICAL GENERAL NOTES

- A) COORDINATE NEMA RATING OF APPLIANCE PLUGS WITH THE EQUIPMENT SPECIFICATIONS.
- B) CONDUIT INSTALLED IN AREAS OF BUILDINGS OR PORTIONS OF BUILDINGS WHERE MEDICAL CARE IS PROVIDED SHALL BE MEDICAL GRADE CONDUIT AND THE INSTALLATION SHALL CONFORM WITH CHAPTER 517 OF THE NEC (HEALTH CARE FACILITIES).
- C) THE ELECTRICAL CONTRACTOR SHALL CONSULT WITH OTHER SUB-CONTRACTORS PROVIDING ENERGIZED EQUIPMENT TO ASSURE THAT ASSOCIATED ELECTRICAL EQUIPMENT MATCHES THE CHARACTERISTICS OF THE EQUIPMENT BEING PROVIDED.

Gladfelter Engineering Group assumes design responsibility for this project for only the mechanical, plumbing and electrical disciplines with drawing sheet number beginning with M, P and E. All other drawings should be considered the work of others. Further, drawings in this project set may contain drawing information, including but not limited to: architectural plans, sections and elevations, site plans and surveys and other information pertinent to showing the mechanical, plumbing and electrical work which is furnished by others, generally indicated by screened or light type. Gladfelter Engineering Group assumes no responsibility for the accuracy or regulatory compliance for work prepared by others even though shown on MPE drawings. Gladfelter Engineering Group assumes responsibility only for the design of mechanical, plumbing and electrical disciplines contained herein, generally indicated in bold type.

BRANCH CIRCUIT CONCEALED IN CEILING OR WALL. ARROWS INDICATE |||| >>> HOMERUNS TO PANEL. ALL CONDUCTORS ARE #12 EXCEPT AS NOTED. - +-- - CONDUIT RUN UNDERGROUND OR BENEATH FLOOR SLAB.

GROUNDING CONDUCTOR #12 EXCEPT AS NOTED. \longrightarrow Θ WALL MOUNTED JUNCTION BOX.

CEILING MOUNTED JUNCTION BOX. PANELBOARD (SURFACE MOUNTED). INSTALL W/TOP 6'-0" AFF.

DISTRIBUTION PANEL (SURFACE MOUNTED).

DISCONNECT SWITCH FURNISHED WITH EQUIPMENT.

DISCONNECT SWITCH. SIZED AS NOTED.

COMBINATION EXIT/EMERGENCY LIGHT FIXTURE WITH (2) HEADS CEILING OR WALL MOUNTED EMERGENCY LIGHTING UNIT WITH (2) HEADS.

 \longrightarrow LED STRIP FIXTURE. Ю

+3'-10"

WALL MOUNTED LIGHT FIXTURE.

+REMOTE WEATHERPROOF EMERGENCY LIGHT FIXTURE.

SINGLE POLE SWITCH. +3'-10" AFF. THREE-WAY SWITCH +3'-10" AFF.

DUPLEX RECEPTACLE. +1'-6" AFF OR AS NOTED.

OCCUPANCY SENSOR. +3'-10" AFF.

DUPLEX RECEPTACLE INSTALLED ABOVE COUNTERTOP. DUPLEX RECEPTACLE WITH WEATHERPROOF PLATE. HEIGHT AS NOTED.

DUPLEX RECEPTACLE W/GROUND FAULT PROTECTION. +1'-6" AFF OR AS NOTED.

FOURLEX RECEPTACLE. +1'-6" AFF OR AS NOTED. COMBINATION VOICE/DATA OUTLET WITH 3/4" CONDUIT STUBBED UP OUT OF BOX TO ABOVE ACCESSIBLE CEILING. +1'-6" AFF OR AS NOTED.

COMBINATION VOICE/DATA OUTLET WITH 3/4" CONDUIT STUBBED UP OUT OF BOX TO ABOVE ACCESSIBLE CEILING. INSTALLED ABOVE COUNTERTOP.

HEIGHT TO CENTERLINE OF OUTLET BOX ABOVE FINISHED FLOOR.

RTU-1 ROOF TOP UNIT AND NUMBER. AFF ABOVE FINISH FLOOR.

EC ELECTRICAL CONTRACTOR. TTB TELEPHONE TERMINAL BOARD AVAILABLE FAULT CURRENT

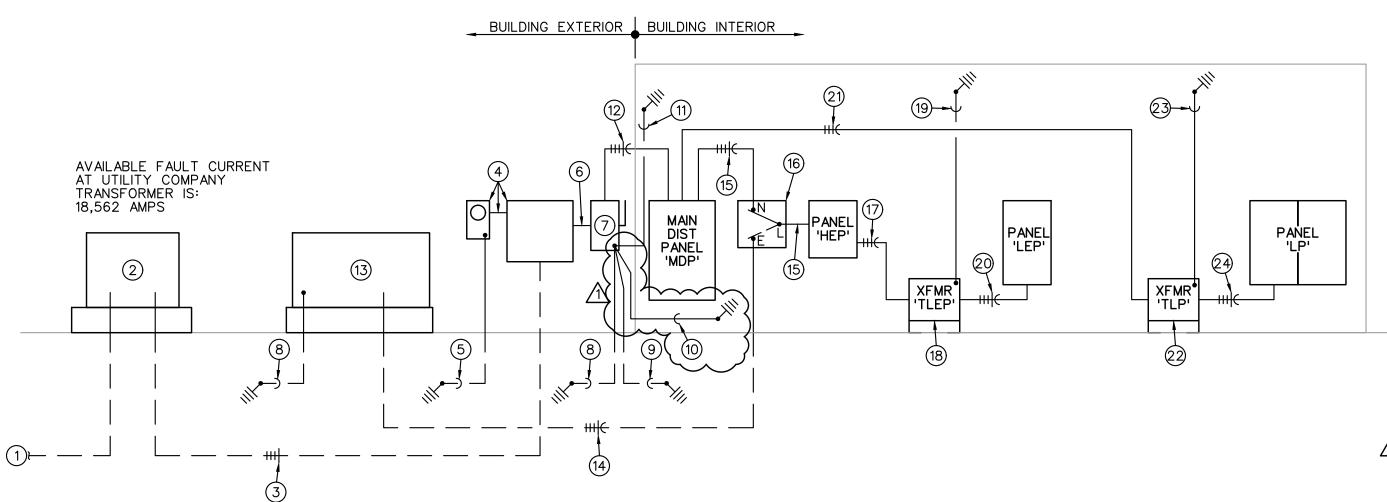
EGC EQUIPMENT GROUNDING CONDUCTOR (EQUIPMENT GROUNDS)

GEC GROUNDING ELECTRODE CONDUCTOR (SERVICE GROUNDS)

MAIN BONDING JUMPER

ELECTRICAL GENERAL NOTES

- A) CONTRACTOR SHALL COORDINATE INSTALLATION REQUIREMENTS AND SCHEDULING OF ALL WORK WITH ARCHITECT AND GENERAL CONTRACTOR.
- B) INSTALLATION SHALL COMPLY WITH LATEST EDITION OF N.E.C. AND LOCAL AUTHORITY HAVING JURISDICTION.
- C) CONTRACTOR SHALL BE LICENSED TO PERFORM WORK IN MUNICIPALITY WHERE PROJECT IS LOCATED.
- D) ALL WIRING SHALL BE INSTALLED IN CONDUIT. EMT CONDUIT WITH SET SCREW FITTINGS MAY BE UTILIZED WHERE PERMITTED BY CODE. MINIMUM CONDUIT SIZE SHALL BE 1/2".
- E) ALL WIRING SHALL BE COPPER WITH 600 VOLT INSULATION AND COLOR CODED, UNLESS NOTED OTHERWISE.
- F) ALUMINUM WIRING SHALL ONLY BE USED FOR FEEDERS FROM TRANSFORMER TO MAIN DISTRIBUTION PANEL. ALUMINUM CONDUCTORS SHALL BE ALCAN STABILOY AA-8000 SERIES, 600 VOLT INSULATION.
- G) CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMIT AND INSPECTION FEES.
- H) MC CABLE MAY BE INSTALLED WHERE PERMITTED BY CODE. CONDUCTORS SHALL BE MINIMUM #12 GAUGE AND COPPER.
- I) INSTALL BLANK COVER PLATE ON ALL PULL BOXES AND JUNCTION BOXES.
- J) TYPEWRITTEN PANELBOARD DIRECTORY SHALL BE PROVIDED FOR PANELBOARD AND CORRECTLY FILLED OUT.
- K) CONTRACTOR SHALL COORDINATE INSTALLATION OF ELECTRICAL WORK WITH ALL OTHER TRADES INVOLVED WITH CONSTRUCTION OF PROJECT.
- L) ALL WIRING DEVICES SHALL BE RATED 20 AMP, OR AS NOTED ON DRAWINGS. COORDINATE LOCATION WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
- M) CONTRACTOR SHALL FIELD VERIFY EXACT ROUTING OF ALL CONDUITS TO NEW EQUIPMENT.
- N) FURNISH MATERIALS AND LABOR FOR A COMPLETE AND OPERATIONAL ELECTRICAL INSTALLATION.
- O) MATERIAL AND EQUIPMENT SHALL BE NEW AND SHALL BEAR THE 'UL' LABELS AS REQUIRED.
- P) CONTRACTOR SHALL COORDINATE INSTALLATION OF EQUIPMENT FURNISHED BY
- Q) PANELBOARD, TRANSFORMERS, MAIN DISTRIBUTION PANEL AND DISCONNECT SWITCHES SHALL BE MANUFACTURED BY ITE/SIEMENS OR EQUAL.
- R) ALL CONCRETE PADS AND POLE BASES ARE PROVIDED AND INSTALLED BY
- S) PVC (SCHEDULE 40) CONDUIT MAY BE USED FOR CONDUITS INSTALLED BELOW FINISHED GRADE OR CONCRETE FLOOR SLAB. PROVIDE WITH APPROVED FITTINGS.
- T) DISCONNECT SWITCHES SHALL BE MANUFACTURED BY ITE/SIEMENS OR EQUAL. NEMA 1 FOR INDOOR INSTALLATION AND NEMA 3R FOR OUTDOOR INSTALLATION.
- U) ALL LIGHT FIXTURES AND DEVICES MOUNTED IN CEILING SHALL BE BRACED TO RESIST SEISMIC FORCES IN ACCORDANCE WITH IBC, NEC, AND LOCAL AUTHORITY HAVING JURISDICTION.
- V) THERMOSTAT OUTLET BOXES SHALL BE PROVIDED AND INSTALLED WITH 3/4" CONDUIT STUBBED UP OUT TOP OF BOX TO ABOVE ACCESSIBLE CEILING. PROVIDE BUSHING ON END OF CONDUIT.
- W) EMERGENCY AND EXIT LIGHT FIXTURES SHALL BE PROVIDED WITH BATTERY BACK-UP FOR MINIMUM OF (90) MINUTES. EMERGENCY AND EXIT LIGHT FIXTURES SHALL BE CONNECTED TO HOT LEG OF CIRCUIT, NOT SWITCHED.



ELECTRICAL RISER DIAGRAM

ELECTRICAL RISER DIAGRAM NOTES®

- 1. TWO (2) 4" PVC CONDUITS FOR PRIMARY SERVICE CABLES. TERMINATE AT PROPERTY LINE. INSTALL CONDUITS WITH TOP MINIMUM OF 3'-6" BELOW FINISHED GRADE.
- UTILITY COMPANY PAD MOUNT TRANSFORMER WITH 480Y/277V PRIMARY. INSTALL CONCRETE PAD PER UTILITY COMPANY STANDARDS.
- 3. THREE (3) SETS OF 3" PVC CONDUIT WITH 4-#400KCMIL (AL) IN EACH. INSTALL CONDUITS WITH TOP MINIMUM OF 3'-6" BELOW FINISHED GRADE.
- 4. UTILITY COMPANY CT CABINET, METER CAN/SOCKET AND 1-1/4" CONDUIT FOR METERING CABLES. INSTALL PER UTILITY COMPANY REQUIREMENTS.
- 5. 3/4" CONDUIT WITH 1-#6 (CU) GROUNDING ELECTRODE CONDUCTOR. CONNECT TO 5/8" ROUND x 10'-0" LONG COPPER CLAD STEEL DRIVEN GROUND ROD.
- THREE (3) SETS OF 3" CONDUIT WITH 4-#400KCMIL (AL) IN EACH.
- 8. 3/4" CONDUIT WITH 1-#6 (CU) GROUNDING ELECTRODE CONDUCTOR. CONNECT

7. 800A/3P, FUSED, NEMA 3R DISCONNECT SWITCH WITH (3) 800A FUSES.

- TO 3/4" ROUND x 12'-0" LONG COPPER CLAD STEEL DRIVEN GROUND ROD. 9. 3/4" CONDUIT WITH 1-#4 (CU) GROUNDING ELECTRODE CONDUCTOR. CONNECT TO 20'-0" LONG COPPER CLAD STEEL CONDUCTOR IN CONCRETE BUILDING
- FOOTING. 10. 3/4" CONDUIT WITH 1-#2/0 (CU) GROUND WIRE. CONNECT TO COLD WATER SERVICE PIPE, AHEAD OF MAIN SHUT-OFF
- 11. 3/4" CONDUIT WITH 1-#2/0 (CU) GROUND WIRE. CONNECT TO BUILDING STEEL. 12. THREE (3) SETS OF 3" CONDUIT WITH 4-#400KCMIL (AL) AND 1-#1/0 (CU) EQUIPMENT GROUNDING CONDCUTOR IN EACH.
- 13. 100KW/125KVA, 277/480V, 3-PHASE, 4-WIRE EMERGENCY GENERATOR WITH 150A/3P OUTPUT CIRCUIT BREAKER. NEMA 3R ENCLOSURE.

- 14. 2" PVC CONDUIT WITH 4-#1/0 (CU) AND 1-#6 (CU) EQUIPMENT GROUNDING CONDUCTOR IN EACH.
- 15. 2" CONDUIT WITH 4-#1/0 (CU) AND 1-#6 (CU) EQUIPMENT GROUNDING CONDUCTOR IN EACH.
- 16. 150A/3P/SN AUTOMATIC TRANSFORMER SWITCH. NEMA 1 ENCLOSURE.
- 17. 1-1/4" CONDUIT WITH 3-#3 (CU) AND 1-#8 (CU) EQUIPMENT GROUNDING CONDUCTOR.
- 18. 75KVA TRANSFORMER WITH 480VOLT DELTA PRIMARY 208Y/120V, 3-PHASE, 4W SECONDARY. INSTALL ON VIBRATION ISOLATION PAD.
- 19. 3/4" CONDUIT WITH 1-#2 (CU) GROUNDING ELECTRODE CONDUCTOR. CONNECT TO BUILDING STEEL.
- 20. 2" CONDUIT WITH 4-#3/0 (CU) AND 1-#6 (CU) EQUIPMENT GROUNDING CONDUCTOR.
- 21. 2-1/2" CONDUIT WITH 3-#250KCMIL (CU) AND 1-#4 (CU) EQUIPMENT GROUNDING CONDUCTOR.
- 22. 150KVA TRANSFORMER WITH 480VOLT DELTA PRIMARY 208Y/120V, 3-PHASE, 4W SECONDARY. INSTALL ON VIBRATION ISOLATION PAD.
- 23. 3/4" CONDUIT WITH 1-#2 (CU) GROUNDING ELECTRODE CONDUCTOR. CONNECT TO BUILDING STEEL.
- 24. TWO (2) SETS OF 2" CONDUITS WITH 4-#3/0 (CU) AND 1-#3 (CU) EQUIPMENT GROUNDING CONDUCTOR IN EACH.



Email gpg@gegrp.net

Gladfelter Engineering Group assumes design responsibility for this project for only the mechanical, plumbing and electrical disciplines with drawing sheet number beginning with M, P and E. All other drawings should be considered the work of others. Further, drawings in this project set may contain drawing information, including but not limited to: architectural plans, sections and elevations, site plans and surveys and other information pertinent to showing the mechanical, plumbing and electrical work which is furnished by others, generally indicated by screened or light type. Gladfelter Engineering Group assumes no responsibility or liability for the accuracy or regulatory compliance for work prepared by others even though shown on MPE drawings. Gladfelter Engineering Group assumes responsibility only for the design of mechanical, plumbing and electrical disciplines contained herein, generally indicated in bold type.



CONSTRUCTION

Lee's Summit, N

Dev Anand President & CEO

Kevin Campbell Senior Architect

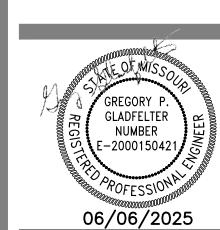
8807 Monrovia Street Lenexa, Kansas 66215

> Phone: 913.322.8882 913.322.8886 Fax: Email: kevin@dev-inc.com

THIS DRAWING has been prepared by the Architect, or prepared under his direct supervision as an instrument of service and is intended for use only on this project. All Drawings, Specifications, ideas and designs, including the overall layout, form, arrangement, and composition of spaces and elements portraved, constitute the original, unpublished Work of the Architect. Any reproduction, use, or disclosure of the information contained herein without the written consent of the Architect is strictly prohibited.

COMPLY WITH all laws, codes, ordinances and regulations with authorities having jurisdiction and with requirements of the Landlord, if applicable. Do not start Work until all permits and required approvals are obtained

()



PROJECT NO. 231206 DRAWING ISSUANCE

CITY COMMENTS

03/06/2025 🚹 06/20/2025

| SCHEI 22kAIC | OULE OF 'MDP' | SERVICE ENTRANCE LABEL 100% NEUTRAL BUS, GROUND BUS | | | | | | | | |
|---|----------------------|--|---------|------|--------|---|--|--|--|--|
| SURFACE MOUNTED, N 277/480 VOLTS 3 PHASE 4 WIRE 800A M | | | | | | | | | | |
| CIR. | | | BREAKER | | DEMAND | | | | | |
| NO. | DESCRIPTION | FRAME | POLE | TRIP | AMPS | | | | | |
| М | MAIN CIRCUIT BREAKER | 800 | 3 | 800 | 436.4 | 1 | | | | |
| 1 | PANEL 'HEP' | 200 | 3 | 150 | 137.4 | 1 | | | | |
| 2 | XFMR 'TLP' | 250 | 3 | 250 | 180.0 | 1 | | | | |
| 3 | RTU-4 | 100 | 3 | 15 | 11.0 | | | | | |
| 4 | RTU-5 | 100 | 3 | 45 | 33.0 | | | | | |
| 5 | RTU-6 | 100 | 3 | 20 | 16.0 | | | | | |
| 6 | RTU-7 | 100 | 3 | 45 | 33.0 | | | | | |
| 7 | RTU-8 | 100 | 3 | 35 | 26.0 | | | | | |
| 8 | SPARE | 100 | 3 | - | - | | | | | |

PANEL SCHEDULE NOTES

1. ESTIMATED FUTURE DEMAND.

| PANEI | L <u>HEP</u> <u>277/</u> | 480 | VOLTS | ■. | 200 | _ A. Bl | JS | | SERVI | CE ENT | RANCE | | |
|---|--------------------------|-------|----------------|------|------------|---------|---------------------------------------|-----|----------------|--------|-----------------------|--|--|
| 10kAl | c · | 3 | PHASE | | | _ A. M | AIN BREAKER | | FEED | THRU L | LUGS | | |
| | I., | 4 | WIRE | | MAI | N LUGS | S ONLY | | SUBFEED LUGS | | | | |
| CIRC. | CIRCUIT | CIRC. | BRKR. | VA | | CIRC. | CIRCUIT | | CIRC. | BRKR. | VA | | |
| NO. | DESCRIPTION | AMPS | POLES | VA | Ø | NO. | DESCRIPTION | | AMPS | POLES | VA | | |
| 1 | | | | 3051 | Α | 2 | | | | | 3050 | | |
| 3 | RTU-1 | 15 | 3 | 3050 | В | 4 | RTU-2 | | 15 | 3 | 3051 | | |
| 5 | | | | 3051 | С | 6 | | | | | 3051 | | |
| 7 | | | 3 | 8320 | Α | 8 | XFMR 'TLEP' | | | | 21600 | | |
| 9 | RTU-3 | 40 | | 8320 | В | 10 | | 100 | 3 | 21600 | | | |
| 11 | | | | 8320 | O | 12 | | | | | 21600 | | |
| TOTAL CONNECTED LOAD DEMAND FACTURE 108064 VA | | | | 125 | | = | | VA | | _ | AL BUS % FACTOR | | |
| = 9 | SURFACE MOUNTED | | PTS @ PTS @ | | _ | | - V. - V. 83104 V. 114304 V. | | | | _% | | |
| _ | LUSH MOUNTED | OTHER | _ | _100 | % : | | | | DEMAND CURRENT | | | | |

| | <u> </u> | | | | | | | | | | | | | | _ | | | — | | | |
|---------|---|-----|---|--|--------------------------|--------------|--|-------|----------------|------------------------------------|--------------|-------------------------|--------|----------------|--------|------|--------------|------------------------|-------|----------------|--------|
| PANE | | | VOLTS | | |)_ A. B | | SERVI | | | PANEL | . <u>LP</u> 12 | 20/208 | VOLTS | | | _ A. BU | | SERVI | | |
| 3 PHASE | | | | | | | | | | SESTI | N 0 05 0 | 3 | | | | | | FEED | | | |
| | | 1 | | | MA | 1 | _ | SUBF | | | | ON <u>2</u> OF <u>2</u> | | | | MAII | | | SUBF | | 3S |
| CIRC. | CIRCUIT DESCRIPTION | | BRKR. POLES | VA | Ø | CIRC. NO. | CIRCUIT DESCRIPTION | | BRKR. POLES | -l \/Δ | CIRC. NO. | CIRCUIT DESCRIPTION | | BRKR. POLES | VA | Ø | CIRC. NO. | CIRCUIT DESCRIPTION | | BRKR. POLES | VA |
| 1 | STRIP LIGHTS | 20 | 1 | 1262 | Α | 2 | WP/GF REC - RTU | 20 | 1 | 900 | 43 | - | 20 | 1 | - | Α | 44 | - | 20 | 1 | - |
| 3 | LTS - EXTERIOR BLDG | 20 | 1 | 358 | В | 4 | - | 20 | 1 | - | 45 | - | 20 | 1 | - | В | 46 | - | 20 | 1 | - |
| 5 | SITE LIGHTING | 20 | 1 | 408 | С | 6 | - | 20 | 1 | - | 47 | - | 20 | 1 | - | С | 48 | - | 20 | 1 | - |
| 7 | - | 20 | 1 | - | A | 8 | - | 20 | 1 | - | 49 | - | 20 | 1 | - | Α | 50 | - | 20 | 1 | - |
| 9 | - | 20 | 1 | - | В | 10 | - | 20 | 1 | - | 51 | - | 20 | 1 | - | В | 52 | - | 20 | 1 | - |
| 11 | - | 20 | 1 | - | С | 12 | - | 20 | 1 | - | 53 | - | 20 | 1 | - | С | 54 | - | 20 | 1 | - |
| 13 | - | 20 | 1 | - | Α | 14 | - | 20 | 1 | - | 55 | - | 20 | 1 | - | Α | 56 | - | 20 | 1 | - |
| 15 | - | 20 | 1 | - | В | 16 | - | 20 | 1 | - | 57 | - | 20 | 1 | - | В | 58 | - | 20 | 1 | - |
| 17 | - | 20 | 1 | - | С | 18 | - | 20 | 1 | - | 59 | - | 20 | 1 | - | С | 60 | - | 20 | 1 | - |
| 19 | - | 20 | 1 | - | A | 20 | - | 20 | 1 | - | 61 | - | 20 | 1 | - | Α | 62 | - | 20 | 1 | - |
| 21 | - | 20 | 1 | - | В | 22 | - | 20 | 1 | - | 63 | - | 20 | 1 | - | В | 64 | - | 20 | 1 | - |
| 23 | - | 20 | 1 | - | С | 24 | - | 20 | 1 | - | 65 | - | 20 | 1 | - | С | 66 | - | 20 | 1 | - |
| 25 | - | 20 | 1 | - | А | 26 | - | 20 | 1 | - | 67 | - | 20 | 1 | - | Α | 68 | - | 20 | 1 | - |
| 27 | - | 20 | 1 | - | В | 28 | - | 20 | 1 | - | 69 | - | 20 | 1 | - | В | 70 | - | 20 | 1 | - |
| 29 | - | 20 | 1 | - | С | 30 | - | 20 | 1 | - | 71 | - | 20 | 1 | - | С | 72 | - | 20 | 1 | - |
| 31 | - | 20 | 1 | - | Α | 32 | - | 20 | 1 | - | 73 | - | 20 | 1 | - | Α | 74 | - | 20 | 1 | - |
| 33 | - | 20 | 1 | - | В | 34 | - | 20 | 1 | - | 75 | - | 20 | 1 | - | В | 76 | - | 20 | 1 | - |
| 35 | - | 20 | 1 | - | С | 36 | - | 20 | 1 | - | 77 | - | 20 | 1 | - | С | 78 | - | 20 | 1 | - |
| 37 | - | 20 | 1 | - | Α | 38 | - | 20 | 1 | - | 79 | - | 20 | 1 | - | Α | 80 | - | 20 | 1 | - |
| 39 | - | 20 | 1 | - | В | 40 | - | 20 | 1 | - | 81 | - | 20 | 1 | - | В | 82 | - | 20 | 1 | - |
| 41 | - | 20 | 1 | - | С | 42 | - | 20 | 1 | - | 83 | - | 20 | 1 | - | С | 84 | - | 20 | 1 | - |
| _ | AL CONNECTED LOAD 2028 VA SURFACE MOUNTED FLUSH MOUNTED | - I | LIGHTS (RECEPT RECEPT OTHER (| D FACTORS @ 125 S @ 100 S @ 50 @ 100 EMAND LOAD | _ % _ % _ % _ % | = <u> </u> | 2535 VA 900 VA - VA - VA 2535 VA | F | | AL BUS) % FACTOR) % CURRENT AMPS | | _ | | | E SECT | | | | | | |

LIGHT FIXTURE SCHEDULE

| TYPE | MANUFACTURER | LAMP | <u>VOLTS</u> WATTS |
|------|--|--|-----------------------|
| Α | LITHONIA LTG #TZL1D L96 6000LM FST MVOLT 35K 80CRI WH | LED | <u>120</u> 59 |
| В | LITHONIA LTG #ZL1D L48 3000LM FST MVOLT 35K 80CRI WH | LED | <u>120</u> 30 |
| P1 | LITHONIA LTG #DSX1 LED P3 40K 80CRI BLC3 | LED | <u>120</u> 102 |
| W1 | ACUITY BRANDS #SQP402-L1L10-FLD_1 | LED | <u>120</u> 12 |
| W2 | LITHONIA LTG #DSXW1 LED 20C 1000 40K T2M MV | LED | <u>120</u> 73 |
| ЕМ | EXITRONIX #LED90 | (2) LED HEADS WITH UNIT | <u>120</u> 10 |
| EEM | EXITRONIX #MLED | WEATHERPROOF LED REMOTE | <u>6</u> 8 |
| Х | EXITRONIX #VEX-U-BP-WB-WH-120-R | RED LED WITH UNIT | <u>120</u> 10 |
| XEM | EXITRONIX #VLED-1-WH-EL90-R | RED LED AND (2) LED HEADS WITH UNIT | <u>120</u> 15 |

TYPE 'X' AND/OR 'XEM' FIXTURES SHALL HAVE 12 WATTS OF REMOTE CAPACITY AND POWER TYPE 'EEM'.

MINIMUM SIZE OF EQUIPMENT GROUNDING CONDUCTORS FOR GRD'G RACEWAY & EQUIPMENT

(NEC TABLE 250-122)

| RATING OR SETTING OF AUTOMATIC | SIZE (AWG | OR KCMILL) |
|--|-----------|---|
| OVER CURRENT PROTECTION DEVICE IN CIRCUIT AHEAD OF EQUIPMENT, CONDUIT, ETC, NOT EXCEEDING THE FOLLOWING. | COPPER | ALUMINUM OR COPPER CLAD ALUMINUM |
| 15 AMPERES | 14 | 12 |
| 20 AMPERES | 12 | 10 |
| 30 AMPERES | 10 | 8 |
| 40 AMPERES | 10 | 8 |
| 60 AMPERES | 10 | 8 |
| 100 AMPERES | 8 | 6 |
| 200 AMPERES | 6 | 4 |
| 300 AMPERES | 4 | 2 |
| 400 AMPERES | 3 | 1 |
| 500 AMPERES | 2 | 1/0 |
| 600 AMPERES | 1 | 2/0 |
| 800 AMPERES | 1/0 | 3/0 |

EQUIPMENT AND RACE WAY GROUNDING SHALL COMPLY, AS A MINIMUM, WITH THE CONDUCTOR SIZES REPRESENTED IN THIS TABLE AND WITH OTHER REQUIREMENTS AND ALLOWANCES SET FORTH IN THE NATIONAL ELECTRICAL CODE (NFPA 70).

MAXIMUM CIRCUIT LENGTH SCHEDULE

| OID OLUT | wipe | MAXIMUM CIRCUIT LENGTH IN FEET | | | | | | | | | | |
|--------------------|--------------|--------------------------------|-----------|----------------|-------|-------|--|--|--|--|--|--|
| CIRCUIT AMPERES | WIRE SIZE | 2 W | IRE, 1 PH | 3 WIRE, 3 PHAS | | | | | | | | |
| / WIII EINES | 5 | 120 V | 240 V | 277 V | 208 V | 480 \ | | | | | | |
| 20 | #12 | 60 | 125 | 145 | 125 | 285 | | | | | | |
| 25 | #10 | 80 | 160 | 180 | 160 | 365 | | | | | | |
| 30 | #10 | 65 | 130 | 150 | 130 | 305 | | | | | | |
| 50 | #6 | 95 | 195 | 225 | 195 | 450 | | | | | | |
| 60 | #6 | 80 | 160 | 185 | 160 | 375 | | | | | | |
| 100 | #3 | 95 | 195 | 225 | 195 | 450 | | | | | | |
| 125 | #1 | 125 | 250 | 285 | 250 | 575 | | | | | | |
| 200 | 3/0 | 155 | 310 | 360 | 310 | 725 | | | | | | |
| | | | | | | | | | | | | |

NOTES:

- 1. ALL CONDUCTORS ARE SOLID COPPER. APPLICATION OF CONDUCTOR SIZE IS LIMITED TO CONDUCTORS WITH THE FOLLOWING INSULATION TYPES: FEPW, RH, RHW, THHW, THW, THWN, XHHW, AND USE.
- CIRCUIT LENGTH IS THE ONE WAY DISTANCE FROM THE OVER CURRENT PROTECTION DEVICE TO THE POINT OF USE.
- 3. IF THE INSTALLED CIRCUIT LENGTH EXCEEDS THE INDICATED MAXIMUM CIRCUIT LENGTH INDICATED, THEN THE CONDUCTORS SHALL BE INCREASED ONE NOMINAL WIRE SIZE.

8807 Monrovia Street

Lenexa, Kansas 66215

Dev Anand President & CEO

Kevin Campbell Senior Architect

913.322.8882 Phone: 913.322.8886 Email: kevin@dev-inc.com

CONSTRUCTION

Lee's Summit, Mi

THIS DRAWING has been prepared by the Architect, or prepared under his direct supervision as an instrument of service and is intended for use only on this project. All Drawings, Specifications, ideas and designs, including the overall layout, form, arrangement, and composition of spaces and elements portrayed, constitute the original, unpublished Work of the Architect. Any reproduction, use, or disclosure of the information contained herein without the written consent of the Architect is strictly prohibited.

COMPLY WITH all laws, codes, ordinances and regulations with authorities having jurisdiction and with requirements of the Landlord, if applicable. Do not start Work until all permits and required approvals are obtained.

SURGEON

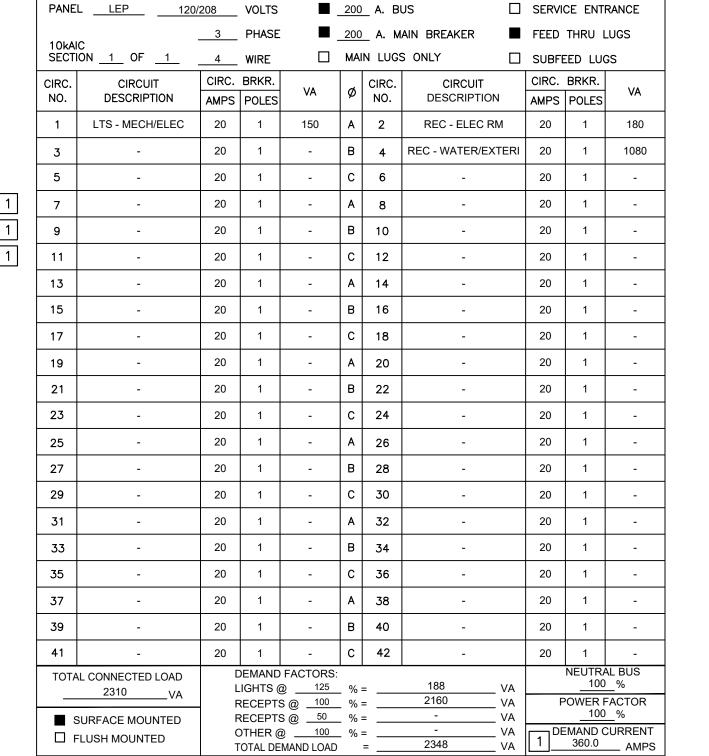
TECHNOLOGY

GREGORY GLADFELTER NUMBER -2000150421 06/06/2025

PROJECT NO. 231206 DRAWING ISSUANCE

SHEET NUMBER

E3.1S



Gladfelter Engineering Group 10233 Millstone Drive, #4112 Lenexa, Kansas 66220 Phone: 816-916-4675

Gladfelter Engineering Group assumes design responsibility for this project for only the mechanical, plumbing and electrical disciplines with drawing sheet number beginning with M, P and E. All other drawings should be considered the work of others. Further, drawings in this project set may contain drawing information, including but not limited to: architectural plans, sections and elevations, site plans and surveys and other information pertinent to showing the mechanical, plumbing and electrical work which is furnished by others, generally indicated by screened or light type. Gladfelter Engineering Group assumes no responsibility or liability for the accuracy or regulatory compliance for work prepared by others even though shown on MPE drawings. Gladfelter Engineering Group assumes responsibility only for the design of mechanical plumbing and electrical disciplines contained berein generally indicated in hold type. mechanical, plumbing and electrical disciplines contained herein, generally indicated in bold type.

COORDINATE ARRANGEMENT, MOUNTING, AND SUPPORT OF ELECTRICAL EQUIPMENT: TO ALLOW MAXIMUM POSSIBLE HEADROOM UNLESS SPECIFIC MOUNTING HEIGHTS THAT REDUCE HEADROOM ARE INDICATED. TO PROVIDE FOR EASE OF DISCONNECTING THE EQUIPMENT WITH MINIMUM INTERFERENCE TO OTHER INSTALLATIONS.

TO ALLOW RIGHT OF WAY FOR PIPING AND CONDUIT INSTALLED AT REQUIRED SLOPE. SO CONNECTING RACEWAYS, CABLES, WIREWAYS, CABLE TRAYS, AND BUSWAYS WILL BE CLEAR OF OBSTRUCTIONS AND OF THE WORKING AND ACCESS SPACE OF OTHER COORDINATE LOCATION OF ACCESS PANELS AND DOORS FOR ELECTRICAL ITEMS THAT ARE BEHIND FINISHED SURFACES OR OTHERWISE CONCEALED.

METRAFLEX CO.

DESCRIPTION: MODULAR SEALING DEVICE, DESIGNED FOR FIELD ASSEMBLY, TO FILL ANNULAR SPACE BETWEEN SLEEVE AND RACEWAY OR CABLE. MANUFACTURERS:

ADVANCE PRODUCTS & SYSTEMS, INC. CALPICO, INC.

PIPELINE SEAL AND INSULATOR, INC. SEALING ELEMENTS: EPDM INTERLOCKING LINKS SHAPED TO FIT SURFACE OF CABLE OR CONDUIT. INCLUDE TYPE AND NUMBER REQUIRED FOR MATERIAL AND SIZE OF RACEWAY OR

PRESSURE PLATES: PLASTIC. INCLUDE TWO FOR EACH SEALING ELEMENT. CONNECTING BOLTS AND NUTS: STAINLESS STEEL OF LENGTH REQUIRED TO SECURE PRESSURE PLATES TO SEALING ELEMENTS. INCLUDE ONE FOR EACH SEALING ELEMENT.

COMMON REQUIREMENTS FOR ELECTRICAL INSTALLATION COMPLY WITH NECA 1

SLEEVE INSTALLATION FOR ELECTRICAL PENETRATIONS ELECTRICAL PENETRATIONS OCCUR WHEN RACEWAYS, CABLES, WIREWAYS, CABLE TRAYS, OR BUSWAYS PENETRATE CONCRETE SLABS, CONCRETE OR MASONRY WALLS, OR FIRE-RATED FLOOR AND WALL ASSEMBLIES. CONCRETE SLABS AND WALLS: INSTALL SLEEVES FOR PENETRATIONS UNLESS

CORE-DRILLED HOLES OR FORMED OPENINGS ARE USED. INSTALL SLEEVES DURING ERECTION OF SLABS AND WALLS.

USE PIPE SLEEVES UNLESS PENETRATION ARRANGEMENT REQUIRES RECTANGULAR FIRE-RATED ASSEMBLIES: INSTALL SLEEVES FOR PENETRATIONS OF FIRE-RATED FLOOR AND WALL ASSEMBLIES UNLESS OPENINGS COMPATIBLE WITH FIRESTOP SYSTEM USED ARE

FABRICATED DURING CONSTRUCTION OF FLOOR OR WALL. CUT SLEEVES TO LENGTH FOR MOUNTING FLUSH WITH BOTH SURFACES OF WALLS. INTERIOR PENETRATIONS OF NON-FIRE-RATED WALLS AND FLOORS: SEAL ANNULAR SPACE BETWEEN SLEEVE AND RACEWAY OR CABLE, USING JOINT SEALANT APPROPRIATE FOR SIZE, DEPTH, AND LOCATION OF JOINT.

FIRE-RATED-ASSEMBLY PENETRATIONS: MAINTAIN INDICATED FIRE RATING OF WALLS, PARTITIONS, CEILINGS, AND FLOORS AT RACEWAY AND CABLE PENETRATIONS. INSTALL SLEEVES AND SEAL RACEWAY AND CABLE PENETRATION SLEEVES WITH FIRESTOP ROOF-PENETRATION SLEEVES: SEAL PENETRATION OF INDIVIDUAL RACEWAYS AND CABLES

ABOVEGROUND, EXTERIOR-WALL PENETRATIONS: SEAL PENETRATIONS USING STEEL PIPE SLEEVES AND MECHANICAL SLEEVE SEALS. SELECT SLEEVE SIZE TO ALLOW FOR 1-INCH (25-MM) ANNULAR CLEAR SPACE BETWEEN PIPE AND SLEEVE FOR INSTALLING MECHANICAL UNDERGROUND, EXTERIOR-WALL PENETRATIONS: INSTALL CAST-IRON PIPE SLEEVES. SIZE SLEEVES TO ALLOW FOR 1-INCH (25-MM) ANNULAR CLEAR SPACE BETWEEN RACEWAY OR CABLE AND SLEEVE FOR INSTALLING MECHANICAL SLEEVE SEALS. SLEEVE-SEAL INSTALLATION INSTALL TO SEAL EXTERIOR WALL PENETRATIONS.

WITH FLEXIBLE BOOT-TYPE FLASHING UNITS APPLIED IN COORDINATION WITH ROOFING

APPLY FIRESTOPPING TO PENETRATIONS OF FIRE-RATED FLOOR AND WALL ASSEMBLIES FOR ELECTRICAL INSTALLATIONS TO RESTORE ORIGINAL FIRE-RESISTANCE RATING OF

2.GROUNDING AND BONDING

ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES: LISTED AND LABELED AS DEFINED IN NFPA 70, ARTICLE 100, BY A TESTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION AND MARKED FOR INTENDED USE

COMPLY WITH UL 467 FOR GROUNDING AND BONDING MATERIALS AND EQUIPMENT.

PRODUCTS

INSULATED CONDUCTORS: COPPER WIRE OR CABLE INSULATED FOR 600 V UNLESS OTHERWISE REQUIRED BY APPLICABLE CODE OR AUTHORITIES HAVING JURISDICTION. BARE COPPER CONDUCTORS: SOLID CONDUCTORS: ASTM B 3.

STRANDED CONDUCTORS: ASTM B 8.

GROUNDING ELECTRODES GROUND RODS: COPPER-CLAD; 3/4 INCH BY10 FEET (19 MM BY 3 M) IN DIAMETER.

EXECUTION

APPLICATIONS CONDUCTORS: INSTALL SOLID CONDUCTOR FOR NO. 8 AWG AND SMALLER, AND STRANDED CONDUCTORS FOR NO. 6 AWG AND LARGER, UNLESS OTHERWISE INDICATED. GROUNDING BUS: INSTALL IN ELECTRICAL AND TELEPHONE EQUIPMENT ROOMS, IN ROOMS HOUSING SERVICE FOUIPMENT, AND FLISEWHERE AS INDICATED. INSTALL BUS ON INSULATED SPACERS 1 INCH (25 MM), MINIMUM, FROM WALL 6 INCHES (150 MM) ABOVE FINISHED FLOOR, UNLESS OTHERWISE INDICATED.

EQUIPMENT GROUNDING INSTALL INSULATED EQUIPMENT GROUNDING CONDUCTORS WITH ALL FEEDERS AND BRANCH CIRCUITS. METAL POLES SUPPORTING OUTDOOR LIGHTING FIXTURES: INSTALL GROUNDING ELECTRODE AND A SEPARATE INSULATED EQUIPMENT GROUNDING CONDUCTOR IN ADDITION TO GROUNDING CONDUCTOR INSTALLED WITH BRANCH-CIRCUIT CONDUCTORS.

BONDING STRAPS AND JUMPERS: INSTALL IN LOCATIONS ACCESSIBLE FOR INSPECTION AND MAINTENANCE, EXCEPT WHERE ROUTED THROUGH SHORT LENGTHS OF CONDUIT. BONDING TO STRUCTURE: BOND STRAPS DIRECTLY TO BASIC STRUCTURE, TAKING CARE NOT TO PENETRATE ANY ADJACENT PARTS

BONDING TO EQUIPMENT MOUNTED ON VIBRATION ISOLATION HANGERS AND SUPPORTS: INSTALL SO VIBRATION IS NOT TRANSMITTED TO RIGIDLY MOUNTED USE EXOTHERMIC-WELDED CONNECTORS FOR OUTDOOR LOCATIONS, BUT IF A

DISCONNECT-TYPE CONNECTION IS REQUIRED, USE A BOLTED CLAMP. GROUNDING AND BONDING FOR PIPING METAL WATER SERVICE PIPE: INSTALL INSULATED COPPER GROUNDING CONDUCTORS, IN CONDUIT, FROM BUILDING'S MAIN SERVICE EQUIPMENT, OR GROUNDING BUS, TO MAIN METAL WATER SERVICE ENTRANCES TO BUILDING. CONNECT GROUNDING CONDUCTORS TO MAIN METAL WATER SERVICE PIPES, USING A BOLTED CLAMP

CONNECTOR OR BY BOLTING A LUG-TYPE CONNECTOR TO A PIPE FLANGE, USING ONE OF THE LUG BOLTS OF THE FLANGE. WHERE A DIFLECTRIC MAIN WATER FITTING IS INSTALLED, CONNECT GROUNDING CONDUCTOR ON STREET SIDE OF FITTING. BOND METAL GROUNDING CONDUCTOR CONDUIT OR SLEEVE TO CONDUCTOR AT EACH END. WATER METER PIPING: USE BRAIDED-TYPE BONDING JUMPERS TO ELECTRICALLY BYPASS WATER METERS. CONNECT TO PIPE WITH A BOLTED CONNECTOR. BOND EACH ABOVEGROUND PORTION OF GAS PIPING SYSTEM DOWNSTREAM FROM

FQUIPMENT SHUTOFF VAI VE GROUNDING FOR STEEL BUILDING STRUCTURE: INSTALL A DRIVEN GROUND ROD AT BASE OF EACH CORNER COLUMN AND AT INTERMEDIATE EXTERIOR COLUMNS AT DISTANCES NOT MORE THAN 60 FEET (18 M) APART.

3.HANGERS AND SUPPORTS FOR ELECTRICAL SYSTEMS

QUALITY ASSURANCE COMPLY WITH NFPA 70.

PRODUCTS

SUPPORT, ANCHORAGE, AND ATTACHMENT COMPONENTS RACEWAY AND CABLE SUPPORTS: AS DESCRIBED IN NECA 1 AND NECA 101. CONDUIT AND CABLE SUPPORT DEVICES: STEEL AND MALLEABLE-IRON HANGERS, CLAMPS, AND ASSOCIATED FITTINGS, DESIGNED FOR TYPES AND SIZES OF RACEWAY OR CABLE TO BE SUPPORT FOR CONDUCTORS IN VERTICAL CONDUIT: FACTORY-FABRICATED ASSEMBLY CONSISTING OF THREADED BODY AND INSULATING WEDGING PLUG OR PLUGS FOR NON-ARMORED ELECTRICAL CONDUCTORS OR CABLES IN RISER CONDUITS. PLUGS SHALL

HAVE NUMBER SIZE AND SHAPE OF CONDUCTOR GRIPPING PIECES AS REQUIRED TO SUIT INDIVIDUAL CONDUCTORS OR CABLES SUPPORTED. BODY SHALL BE MALLEABLE IRON.

1/4 INCH (6 MM) IN DIAMETER

APPLICATION COMPLY WITH NECA 1 AND NECA 101 FOR APPLICATION OF HANGERS AND SUPPORTS FOR ELECTRICAL EQUIPMENT AND SYSTEMS EXCEPT IF REQUIREMENTS IN THIS SECTION ARE MAXIMUM SUPPORT SPACING AND MINIMUM HANGER ROD SIZE FOR RACEWAY: SPACE SUPPORTS FOR EMT, IMC, AND RMC AS REQUIRED BY NFPA 70. MINIMUM ROD SIZE SHALL BE MULTIPLE RACEWAYS OR CABLES: INSTALL TRAPEZE-TYPE SUPPORTS FABRICATED WITH STEEL SLOTTED SUPPORT SYSTEM, SIZED SO CAPACITY CAN BE INCREASED BY AT LEAST 25 PERCENT IN FUTURE WITHOUT EXCEEDING SPECIFIED DESIGN LOAD LIMITS. SECURE RACEWAYS AND CABLES TO THESE SUPPORTS WITH TWO-BOLT CONDUIT CLAMPS. SUPPORT INSTALLATION

COMPLY WITH NECA 1 AND NECA 101 FOR INSTALLATION REQUIREMENTS EXCEPT AS SPECIFIED IN THIS ARTICLE. RACEWAY SUPPORT METHODS: IN ADDITION TO METHODS DESCRIBED IN NECA 1, EMT, IMC, AND RMC MAY BE SUPPORTED BY OPENINGS THROUGH STRUCTURE MEMBERS, AS PERMITTED IN NFPA 70.

MOUNTING AND ANCHORAGE OF SURFACE-MOUNTED EQUIPMENT AND COMPONENTS: ANCHOR AND FASTEN ELECTRICAL ITEMS AND THEIR SUPPORTS TO BUILDING STRUCTURAL ELEMENTS BY THE FOLLOWING METHODS UNLESS OTHERWISE INDICATED BY CODE: TO WOOD: FASTEN WITH LAG SCREWS OR THROUGH BOLTS.

TO NEW CONCRETE: BOLT TO CONCRETE INSERTS. TO MASONRY: APPROVED TOGGLE-TYPE BOLTS ON HOLLOW MASONRY UNITS AND EXPANSION ANCHOR FASTENERS ON SOLID MASONRY UNITS. TO EXISTING CONCRETE: EXPANSION ANCHOR FASTENERS. INSTEAD OF EXPANSION ANCHORS, POWDER-ACTUATED DRIVEN THREADED STUDS

PROVIDED WITH LOCK WASHERS AND NUTS MAY BE USED IN EXISTING STANDARD-WEIGHT CONCRETE 4 INCHES (100 MM) THICK OR GREATER. DO NOT USE FOR ANCHORAGE TO LIGHTWEIGHT-AGGREGATE CONCRETE OR FOR SLABS LESS THAN 4 INCHES (100 MM) THICK. TO STEEL: BEAM CLAMPS (MSS TYPE 19, 21, 23, 25, OR 27) COMPLYING WITH MSS SP-69. TO LIGHT STEEL: SHEET METAL SCREWS.

ITEMS MOUNTED ON HOLLOW WALLS AND NONSTRUCTURAL BUILDING SURFACES: CABINETS, PANELBOARDS, DISCONNECT SWITCHES, CONTROL ENCLOSURES, PULL AND JUNCTION BOXES, TRANSFORMERS, AND OTHER DEVICES ON SLOTTED-CHANNEL RACKS ATTACHED TO SUBSTRATE

4. CONDUCTORS AND CABLES

COMPLY WITH NFPA 70.

ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES: LISTED AND LABELED AS DEFINED IN NFPA 70, ARTICLE 100, BY A TESTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION, AND MARKED FOR INTENDED USE.

EXECUTION

CONDUCTORS AND CABLES MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING

ALCAN PRODUCTS CORPORATION; ALCAN CABLE DIVISION. AMERICAN INSULATED WIRE CORP.; A LEVITON COMPANY.

GENERAL CABLE CORPORATION. SENATOR WIRE & CABLE COMPANY. SOUTHWIRE COMPANY.

COPPER CONDUCTORS: COMPLY WITH NEMA WC 70. CONDUCTOR INSULATION: COMPLY WITH NEMA WC 70 FOR TYPE THHN-THWN. MULTICONDUCTOR CABLE: COMPLY WITH NEMA WC 70 FOR METAL-CLAD CABLE, TYPE MC WITH GROUND WIRE. CONNECTORS AND SPLICES

AVAILABLE MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS. MANUFACTURERS OFFERING PRODUCTS THAT MAY BE INCORPORATED INTO THE WORK INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING: AFC CABLE SYSTEMS, INC.

HUBBELL POWER SYSTEMS, INC O-Z/GEDNEY; EGS ELECTRICAL GROUP LLC. 3M: ELECTRICAL PRODUCTS DIVISION.

TYCO FLECTRONICS CORP DESCRIPTION: FACTORY-FABRICATED CONNECTORS AND SPLICES OF SIZE, AMPACITY RATING, MATERIAL, TYPE, AND CLASS FOR APPLICATION AND SERVICE INDICATED.

CONDUCTOR MATERIAL APPLICATIONS FEEDERS: COPPER. SOLID FOR NO. 10 AWG AND SMALLER; STRANDED FOR NO. 8 AWG AND

BRANCH CIRCUITS: COPPER. SOLID FOR NO. 10 AWG AND SMALLER; STRANDED FOR CONDUCTOR INSULATION AND MULTICONDUCTOR CABLE APPLICATIONS AND WIRING SERVICE ENTRANCE, FEEDERS: TYPE THHN-THWN, SINGLE CONDUCTORS IN RACEWAY. BRANCH CIRCUITS CONCEALED IN CONCRETE, BELOW SLABS-ON-GRADE, AND UNDERGROUND: TYPE THHN-THWN, SINGLE CONDUCTORS IN RACEWAY. BRANCH CIRCUITS NOT CONCEALED IN CONCRETE: TYPE THHN-THWN, SINGLE CONDUCTORS IN RACEWAY OR METAL-CLAD CABLE, TYPE MC].

INSTALLATION OF CONDUCTORS AND CABLES CONCEAL CABLES IN FINISHED WALLS, CEILINGS, AND FLOORS, UNLESS OTHERWISE

INSTALL EXPOSED CABLES PARALLEL AND PERPENDICULAR TO SURFACES OF EXPOSED STRUCTURAL MEMBERS, AND FOLLOW SURFACE CONTOURS WHERE POSSIBLE. IDENTIFY AND COLOR-CODE CONDUCTORS AND CABLES ACCORDING TO SECTION "HANGERS AND SUPPORTS FOR ELECTRICAL SYSTEMS.

5.RACEWAYS AND BOXES

ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES: LISTED AND LABELED AS DEFINED IN NFPA 70, ARTICLE 100, BY A TESTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION, AND MARKED FOR INTENDED USE. COMPLY WITH NFPA 70.

PRODUCTS

MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING ALLIED TUBE & CONDUIT; A TYCO INTERNATIONAL LTD. CO. O-Z GEDNEY; A UNIT OF GENERAL SIGNAL.

WHEATLAND TUBE COMPANY. FITTINGS FOR CONDUIT (INCLUDING ALL TYPES AND FLEXIBLE AND LIQUIDTIGHT), EMT, AND CABLE: NEMA FB 1: LISTED FOR TYPE AND SIZE RACEWAY WITH WHICH USED. AND FOR APPLICATION AND ENVIRONMENT IN WHICH INSTALLED. CONDUIT FITTINGS FOR HAZARDOUS (CLASSIFIED) LOCATIONS: COMPLY WITH UL 886

FITTINGS FOR EMT: STEEL OR DIE-CAST. SET-SCREW OR COMPRESSION TYPE FOR CONCEALED LOCATIONS. STEEL OR DIE-CAST, COMPRESSION TYPE FOR EXPOSED NONMETALLIC CONDUIT AND TUBING

MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING: CANTEX INC CERTAINTEED CORP.; PIPE & PLASTICS GROUP.

RACO; A HUBBELL COMPANY THOMAS & BETTS CORPORATION BOXES, ENCLOSURES, AND CABINETS MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS

BY ONE OF THE FOLLOWING: HUBBELL INCORPORATED; KILLARK ELECTRIC MANUFACTURING CO. DIVISION.

O-Z/GEDNEY; A UNIT OF GENERAL SIGNAL RACO; A HUBBELL COMPANY. THOMAS & BETTS CORPORATION

WALKER SYSTEMS, INC.; WIREMOLD COMPANY (THE).

EXECUTION

RACEWAY APPLICATION OUTDOORS: APPLY RACEWAY PRODUCTS AS SPECIFIED BELOW, UNLESS OTHERWISE INDICATED:

EXPOSED AND CONCEALED CONDUIT: RIGID STEEL CONDUIT. UNDERGROUND CONDUIT: RNC, TYPE EPC-40-PVC, DIRECT BURIED. CONNECTION TO VIBRATING EQUIPMENT (INCLUDING TRANSFORMERS AND HYDRAULIC, PNEUMATIC, ELECTRIC SOLENOID, OR MOTOR-DRIVEN EQUIPMENT): LFNC. BOXES AND ENCLOSURES, ABOVEGROUND: NEMA 250, TYPE 3R. COMPLY WITH THE FOLLOWING INDOOR APPLICATIONS, UNLESS OTHERWISE INDICATED:

EXPOSED: EMT CONCEALED IN CEILINGS AND INTERIOR WALLS AND PARTITIONS: EMT, UNLESS MC ALLOWED PER "CONDUCTORS AND CABLES" SECTION. CONNECTION TO VIBRATING EQUIPMENT (INCLUDING TRANSFORMERS AND HYDRAULIC, PNEUMATIC, ELECTRIC SOLENOID, OR MOTOR-DRIVEN EQUIPMENT): FMC, EXCEPT USE LFMC IN DAMP OR WET LOCATIONS. DAMP OR WET LOCATIONS: RIGID STEEL CONDUIT. RACEWAYS FOR OPTICAL FIBER OR COMMUNICATIONS CABLE: EMT.

BOXES AND ENCLOSURES: NEMA 250, TYPE 1, EXCEPT USE NEMA 250, TYPE 4, NONMETALLIC IN DAMP OR WET LOCATIONS. MINIMUM RACEWAY SIZE: 1/2-INCH (16-MM) TRADE SIZE. DO NOT INSTALL ALUMINUM CONDUITS IN CONTACT WITH CONCRETE. INSTALLATION

COMPLY WITH NECA 1 FOR INSTALLATION REQUIREMENTS APPLICABLE TO PRODUCTS SPECIFIED IN PART 2 EXCEPT WHERE REQUIREMENTS ON DRAWINGS OR IN THIS ARTICLE KEEP RACEWAYS AT LEAST 6 INCHES (150 MM) AWAY FROM PARALLEL RUNS OF FLUES AND STEAM OR HOT-WATER PIPES. INSTALL HORIZONTAL RACEWAY RUNS ABOVE WATER AND STEAM PIPING

SUPPORT RACEWAYS AS SPECIFIED IN "HANGERS AND SUPPORTS FOR ELECTRICAL SYSTEMS." ARRANGE STUB-UPS SO CURVED PORTIONS OF BENDS ARE NOT VISIBLE ABOVE THE FINISHED SLAB. INSTALL NO MORE THAN THE EQUIVALENT OF THREE 90-DEGREE BENDS IN ANY CONDUIT RUN EXCEPT FOR COMMUNICATIONS CONDUITS, FOR WHICH FEWER BENDS ARE ALLOWED. CONCEAL CONDUIT AND EMT WITHIN FINISHED WALLS, CEILINGS, AND FLOORS, UNLESS OTHERWISE INDICATED.

RACEWAYS EMBEDDED IN SLABS: RUN CONDUIT LARGER THAN 1-INCH (27-MM) TRADE SIZE, PARALLEL OR AT RIGHT ANGLES TO MAIN REINFORCEMENT. WHERE AT RIGHT ANGLES TO REINFORCEMENT, PLACE CONDUIT CLOSE TO SLAB SUPPORT. ARRANGE RACEWAYS TO CROSS BUILDING EXPANSION JOINTS AT RIGHT ANGLES WITH **EXPANSION FITTINGS**

CHANGE FROM ENT TO RNC, TYPE EPC-40-PVC, RIGID STEEL CONDUIT, OR IMC BEFORE RISING ABOVE THE FLOOR RACEWAY TERMINATIONS AT LOCATIONS SUBJECT TO MOISTURE OR VIBRATION: USE INSULATING BUSHINGS TO PROTECT CONDUCTORS, INCLUDING CONDUCTORS SMALLER INSTALL PULL WIRES IN EMPTY RACEWAYS. USE POLYPROPYLENE OR MONOFILAMENT

PLASTIC LINE WITH NOT LESS THAN 200-LB (90-KG) TENSILE STRENGTH. LEAVE AT LEAST 12 INCHES (300 MM) OF SLACK AT EACH END OF PULL WIRE RACEWAYS FOR OPTICAL FIBER AND COMMUNICATIONS CABLE: INSTALL RACEWAYS. METALLIC AND NONMETALLIC, RIGID AND FLEXIBLE, WITH A MAXIMUM OF TWO 90-DEGREE BENDS OR EQUIVALENT FOR EACH LENGTH OF RACEWAY UNLESS DRAWINGS SHOW STRICTER REQUIREMENTS. SEPARATE LENGTHS WITH PULL OR JUNCTION BOXES OR TERMINATIONS AT DISTRIBUTION FRAMES OR CABINETS WHERE NECESSARY TO COMPLY WITH THESE REQUIREMENTS.

FLEXIBLE CONDUIT CONNECTIONS: USE MAXIMUM OF 72 INCHES (1830 MM) OF FLEXIBLE CONDUIT FOR RECESSED AND SEMIRECESSED LIGHTING FIXTURES, EQUIPMENT SUBJECT TO VIBRATION, NOISE TRANSMISSION, OR MOVEMENT; AND FOR TRANSFORMERS AND MOTORS. USE LFMC IN DAMP OR WET LOCATIONS SUBJECT TO SEVERE PHYSICAL DAMAGE. USE LFMC OR LFNC IN DAMP OR WET LOCATIONS NOT SUBJECT TO SEVERE PHYSICAL

RECESSED BOXES IN MASONRY WALLS: SAW-CUT OPENING FOR BOX IN CENTER OF CELL OF MASONRY BLOCK, AND INSTALL BOX FLUSH WITH SURFACE OF WALL

6.WIRING DEVICES

QUALITY ASSURANCE ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES: LISTED AND LABELED AS DEFINED IN NFPA 70, ARTICLE 100, BY A TESTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION, AND MARKED FOR INTENDED USE. COMPLY WITH NFPA 70.

RECEPTACLES FOR OWNER-FURNISHED EQUIPMENT: MATCH PLUG CONFIGURATIONS. CORD AND PLUG SETS: MATCH EQUIPMENT REQUIREMENTS.

PRODUCTS

STRAIGHT BLADE RECEPTACLES CONVENIENCE RECEPTACLES, 125 V, 20 A: COMPLY WITH NEMA WD 1, NEMA WD 6 CONFIGURATION 5-20R, AND UL 498.

PRODUCTS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE ONE OF THE FOLLOWING COOPER; 5351 (SINGLE), 5352 (DUPLEX). HUBBELL; HBL5351 (SINGLE), CR5352 (DUPLEX). LEVITON; 5891 (SINGLE), 5352 (DUPLEX) PASS & SEYMOUR; 5381 (SINGLE), 5352 (DUPLEX).

GFCI RECEPTACLES DUPLEX GFCI CONVENIENCE RECEPTACLES, 125 V, 20 A: PRODUCTS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE ONE OF THE FOLLOWING:

COOPER; GF20. PASS & SEYMOUR; 2084. HUBBELL EQUAL I FVITON EQUAL

WALL PLATES SINGLE AND COMBINATION TYPES TO MATCH CORRESPONDING WIRING DEVICES. PLATE-SECURING SCREWS: METAL WITH HEAD COLOR TO MATCH PLATE FINISH. MATERIAL FOR DAMP LOCATIONS: CAST ALUMINUM WITH SPRING-LOADED LIFT COVER, AND LISTED AND LABELED FOR USE IN "WET LOCATIONS." WET-LOCATION, WEATHERPROOF COVER PLATES: NEMA 250, COMPLYING WITH TYPE 3R

WEATHER-RESISTANT, DIE-CAST ALUMINUM WITH LOCKABLE COVER.

7.LIGHTING CONTROL DEVICES

ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES: LISTED AND LABELED AS DEFINED IN NFPA 70, ARTICLE 100, BY A TESTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION, AND MARKED FOR INTENDED USE.

COORDINATE LAYOUT AND INSTALLATION OF CEILING-MOUNTED DEVICES WITH OTHER CONSTRUCTION THAT PENETRATES CEILINGS OR IS SUPPORTED BY THEM, INCLUDING LIGHT FIXTURES, HVAC EQUIPMENT, SMOKE DETECTORS, FIRE-SUPPRESSION SYSTEM, AND PARTITION ASSEMBLIES.

PRODUCTS

BASIS-OF-DESIGN PRODUCT: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE THE PRODUCT INDICATED ON DRAWINGS OR A COMPARABLE PRODUCT BY ONE OF THE FOLLOWING:

INTERMATIC, INC SQUARE D; SCHNEIDER ELECTRIC.

WATT STOPPER (THE). ELECTRONIC TIME SWITCHES: ELECTRONIC, SOLID-STATE PROGRAMMABLE UNITS WITH ALPHANUMERIC DISPLAY: COMPLYING WITH UL 917. CONTACT CONFIGURATION: SPST

CONTACT RATING: 20-A BALLAST LOAD, 120/240-V AC. PROGRAM: 2 ON-OFF SET POINTS ON A 24-HOUR SCHEDULE, ALLOWING DIFFERENT SET POINTS FOR EACH DAY OF THE WEEK CIRCUITRY: ALLOW CONNECTION OF A PHOTOELECTRIC RELAY AS SUBSTITUTE FOR ON-OFF FUNCTION OF A PROGRAM ASTRONOMIC TIME: ALL CHANNELS

BATTERY BACKUP: FOR SCHEDULES AND TIME CLOCK. OUTDOOR PHOTOELECTRIC SWITCHES BASIS-OF-DESIGN PRODUCT: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE A PRODUCT BY ONE OF THE FOLLOWING:

INTERMATIC INC SQUARE D; SCHNEIDER ELECTRIC.

WATT STOPPER (THE)

DESCRIPTION: SOLID STATE, WITH SPST DRY CONTACTS RATED FOR 1800 VA TO OPERATE CONNECTED LOAD, RELAY, OR CONTACTOR COILS; COMPLYING WITH UL 773. LIGHT-LEVEL MONITORING RANGE: 1.5 TO 10 FC (16.14 TO 108 LX), WITH AN ADJUSTMENT FOR TURN-ON AND TURN-OFF LEVELS WITHIN THAT RANGE TIME DELAY: 30-SECOND MINIMUM, TO PREVENT FALSE OPERATION.

LIGHTNING ARRESTER: AIR-GAP TYPE. MOUNTING: TWIST LOCK COMPLYING WITH IEEE C136.10, WITH BASE. LIGHTING CONTACTORS BASIS-OF-DESIGN PRODUCT: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE A

PRODUCT BY ONE OF THE FOLLOWING EATON ELECTRICAL INC.; CUTLER-HAMMER PRODUCTS. GE INDUSTRIAL SYSTEMS; TOTAL LIGHTING CONTROL.

SQUARE D: SCHNEIDER ELECTRIC DESCRIPTION: ELECTRICALLY OPERATED AND ELECTRICALLY HELD, COMPLYING WITH NEMA ICS 2 AND UL 508. CURRENT RATING FOR SWITCHING: LISTING OR RATING CONSISTENT WITH TYPE OF LOAD SERVED, INCLUDING TUNGSTEN FILAMENT, INDUCTIVE, AND HIGH-INRUSH BALLAST

(BALLAST WITH 15 PERCENT OR LESS TOTAL HARMONIC DISTORTION OF NORMAL LOAD FAULT CURRENT WITHSTAND RATING: EQUAL TO OR EXCEEDING THE AVAILABLE FAULT CURRENT AT THE POINT OF INSTALLATION. FNCLOSURE: COMPLY WITH NEMA 250

PROVIDE WITH CONTROL AND PILOT DEVICES AS INDICATED ON DRAWINGS, MATCHING THE NEMA TYPE SPECIFIED FOR THE ENCLOSURE.

EXECUTION

FIELD QUALITY CONTROL OPERATIONAL TEST: VERIFY OPERATION OF EACH LIGHTING CONTROL DEVICE, AND ADJUST TIME DELAYS.

8.ENCLOSED SWITCHES

PRODUCT DATA: FOR EACH TYPE OF ENCLOSED SWITCH. INCLUDE DIMENSIONED ELEVATIONS, SECTIONS, WEIGHTS, AND MANUFACTURERS' TECHNICAL DATA ON FEATURES, PERFORMANCE, ELECTRICAL CHARACTERISTICS, RATINGS, ACCESSORIES, AND FINISHES. PRODUCT SELECTION FOR RESTRICTED SPACE: DRAWINGS INDICATE MAXIMUM DIMENSIONS FOR ENCLOSED SWITCHES AND CIRCUIT BREAKERS, INCLUDING CLEARANCES BETWEEN ENCLOSURES, AND ADJACENT SURFACES AND OTHER ITEMS. COMPLY WITH INDICATED MAXIMUM DIMENSIONS ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES: LISTED AND LABELED AS DEFINED

IN NFPA 70, BY A QUALIFIED TESTING AGENCY, AND MARKED FOR INTENDED LOCATION AND COMPLY WITH NFPA 70 COORDINATION COORDINATE LAYOUT AND INSTALLATION OF SWITCHES AND COMPONENTS WITH EQUIPMENT SERVED AND ADJACENT SURFACES. MAINTAIN REQUIRED WORKSPACE

CLEARANCES AND REQUIRED CLEARANCES FOR EQUIPMENT ACCESS DOORS AND PANELS.

PRODUCTS

FUSIBLE AND NONFUSIBLE SWITCHES MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING:

EATON ELECTRICAL INC.; CUTLER-HAMMER BUSINESS UNIT.

GENERAL ELECTRIC COMPANY; GE CONSUMER & INDUSTRIAL - ELECTRICAL SIEMENS ENERGY & AUTOMATION, INC.

SQUARE D; A BRAND OF SCHNEIDER ELECTRIC

TYPE GD, GENERAL DUTY, SINGLE THROW, 240-V AC, 800 A AND SMALLER: UL 98 AND NEMA KS 1, HORSEPOWER RATED, WITH CARTRIDGE FUSE INTERIORS TO ACCOMMODATE INDICATED FUSES, LOCKABLE HANDLE WITH CAPABILITY TO ACCEPT TWO PADLOCKS, AND INTERLOCKED WITH COVER IN CLOSED POSITION. TYPE HD, HEAVY DUTY, SINGLE THROW, [240] [600]-V AC, 1200 A AND SMALLER: UL 98 AND NEMA KS 1. HORSEPOWER RATED. WITH CLIPS OR BOLT PADS TO ACCOMMODATE [SPECIFIED] [INDICATED] FUSES, LOCKABLE HANDLE WITH CAPABILITY TO ACCEPT THREE PADLOCKS, AND INTERLOCKED WITH COVER IN CLOSED POSITION.

EQUIPMENT GROUND KIT: INTERNALLY MOUNTED AND LABELED FOR COPPER AND ALUMINUM GROUND CONDUCTORS. NEUTRAL KIT: INTERNALLY MOUNTED; INSULATED, CAPABLE OF BEING GROUNDED AND BONDED; LABELED FOR COPPER AND ALUMINUM NEUTRAL CONDUCTORS. LUGS: MECHANICAL TYPE, SUITABLE FOR NUMBER, SIZE, AND CONDUCTOR MATERIAL. SERVICE-RATED SWITCHES: LABELED FOR USE AS SERVICE EQUIPMENT

ENCLOSED SWITCHES AND CIRCUIT BREAKERS: NEMA AB 1, NEMA KS 1, NEMA 250, AND

UL 50, TO COMPLY WITH ENVIRONMENTAL CONDITIONS AT INSTALLED LOCATION.

INDOOR, DRY AND CLEAN LOCATIONS: NEMA 250, TYPE 1.

OUTDOOR LOCATIONS: NEMA 250, TYPE 3R.

EXECUTION

ENCLOSURES

ACCESSORIES:

INSTALL INDIVIDUAL WALL-MOUNTED SWITCHES AND CIRCUIT BREAKERS WITH TOPS AT UNIFORM HEIGHT UNLESS OTHERWISE INDICATED. COMPLY WITH NECA 1

IDENTIFICATION COMPLY WITH REQUIREMENTS IN SECTION "ELECTRICAL IDENTIFICATION." IDENTIFY FIELD-INSTALLED CONDUCTORS, INTERCONNECTING WIRING, AND COMPONENTS; PROVIDE WARNING SIGNS. LABEL EACH ENCLOSURE WITH ENGRAVED METAL OR LAMINATED-PLASTIC NAMEPLATE.

9.PANELBOARDS

PRODUCT DATA: FOR EACH TYPE OF PANELBOARD, SWITCHING AND OVERCURRENT PROTECTIVE DEVICE, TRANSIENT VOLTAGE SUPPRESSION DEVICE, ACCESSORY, AND COMPONENT INDICATED. INCLUDE DIMENSIONS AND MANUFACTURERS' TECHNICAL DATA ON FEATURES, PERFORMANCE, ELECTRICAL CHARACTERISTICS, RATINGS, AND FINISHES. OPERATION AND MAINTENANCE DATA: FOR PANELBOARDS AND COMPONENTS TO INCLUDE IN EMERGENCY, OPERATION, AND MAINTENANCE MANUALS

QUALITY ASSURANCE SOURCE LIMITATIONS: OBTAIN PANELBOARDS, OVERCURRENT PROTECTIVE DEVICES, COMPONENTS, AND ACCESSORIES FROM SINGLE SOURCE FROM SINGLE MANUFACTURER. PRODUCT SELECTION FOR RESTRICTED SPACE: DRAWINGS INDICATE MAXIMUM DIMENSIONS FOR PANELBOARDS INCLUDING CLEARANCES BETWEEN PANELBOARDS AND ADJACENT SURFACES AND OTHER ITEMS. COMPLY WITH INDICATED MAXIMUM DIMENSIONS. ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES: LISTED AND LABELED AS DEFINED IN NFPA 70, BY A QUALIFIED TESTING AGENCY, AND MARKED FOR INTENDED LOCATION AND APPLICATION.

COMPLY WITH NEMA PB COMPLY WITH NFPA 70. COORDINATION COORDINATE LAYOUT AND INSTALLATION OF PANELBOARDS AND COMPONENTS WITH OTHER CONSTRUCTION THAT PENETRATES WALLS OR IS SUPPORTED BY THEM, INCLUDING ELECTRICAL AND OTHER TYPES OF EQUIPMENT, RACEWAYS, PIPING, ENCUMBRANCES TO

WORKSPACE CLEARANCE REQUIREMENTS, AND ADJACENT SURFACES. MAINTAIN REQUIRED

WORKSPACE CLEARANCES AND REQUIRED CLEARANCES FOR EQUIPMENT ACCESS DOORS

SPECIAL WARRANTY: MANUFACTURER'S STANDARD FORM IN WHICH MANUFACTURER AGREES TO REPAIR OR REPLACE TRANSIENT VOLTAGE SUPPRESSION DEVICES THAT FAIL IN MATERIALS OR WORKMANSHIP WITHIN SPECIFIED WARRANTY PERIOD. WARRANTY PERIOD: FIVE YEARS FROM DATE OF SUBSTANTIAL COMPLETION.

KEYS: TWO SPARES FOR EACH TYPE OF PANELBOARD CABINET LOCK.

EXTRA MATERIALS

AND PANELS

GENERAL REQUIREMENTS FOR PANELBOARDS MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING:

EATON ELECTRICAL INC.; CUTLER-HAMMER BUSINESS UNIT. GENERAL ELECTRIC COMPANY; GE CONSUMER & INDUSTRIAL - ELECTRICAL SIEMENS ENERGY & AUTOMATION, INC. SQUARE D; A BRAND OF SCHNEIDER ELECTRIC.

ENCLOSURES: FLUSH- AND SURFACE-MOUNTED CABINETS AS SCHEDULED. RATED FOR ENVIRONMENTAL CONDITIONS AT INSTALLED LOCATION. INDOOR DRY AND CLEAN LOCATIONS: NEMA 250, TYPE 1. OUTDOOR LOCATIONS: NEMA 250, TYPE 3R. OTHER WET OR DAMP INDOOR LOCATIONS: NEMA 250, TYPE 4. PANELS AND TRIM: STEEL, FACTORY FINISHED IMMEDIATELY AFTER CLEANING AND

CONSISTING OF PRIME COAT AND THERMOSETTING TOPCOAT. BACK BOXES: GALVANIZED STEEL PHASE, NEUTRAL, AND GROUND BUSES: MATERIAL: HARD-DRAWN COPPER, 98 PERCENT CONDUCTIVITY. EQUIPMENT GROUND BUS: ADEQUATE FOR FEEDER AND BRANCH-CIRCUIT EQUIPMENT GROUNDING CONDUCTORS; BONDED TO BOX.

PRETREATING WITH MANUFACTURER'S STANDARD TWO-COAT, BAKED-ON FINISH

CONDUCTOR CONNECTORS: SUITABLE FOR USE WITH CONDUCTOR MATERIAL AND SIZES. MATERIAL: HARD-DRAWN COPPER, 98 PERCENT CONDUCTIVITY. MAIN AND NEUTRAL LUGS: MECHANICAL TYPE. GROUND LUGS AND BUS-CONFIGURED TERMINATORS: MECHANICAL TYPE. FEED-THROUGH LUGS: MECHANICAL TYPE, SUITABLE FOR USE WITH CONDUCTOR MATERIAL. LOCATE AT OPPOSITE END OF BUS FROM INCOMING LUGS OR MAIN DEVICE.

SERVICE EQUIPMENT LABEL: NRTL LABELED FOR USE AS SERVICE EQUIPMENT FOR

PANELBOARDS OR LOAD CENTERS WITH ONE OR MORE MAIN SERVICE DISCONNECTING AND OVERCURRENT PROTECTIVE DEVICES. PANELBOARD SHORT-CIRCUIT CURRENT RATING: RATED FOR SERIES-CONNECTED SYSTEM WITH INTEGRAL OR REMOTE UPSTREAM OVERCURRENT PROTECTIVE DEVICES AND LABELED BY AN NRTL. INCLUDE SIZE AND TYPE OF ALLOWABLE UPSTREAM AND BRANCH DEVICES, LISTED AND LABELED FOR SERIES-CONNECTED SHORT-CIRCUIT RATING BY AN NRTL. LIGHTING AND APPLIANCE BRANCH-CIRCUIT PANELBOARDS

MAINS: CIRCUIT BREAKER OR LUGS ONLY AS SCHEDULED. BRANCH OVERCURRENT PROTECTIVE DEVICES: BOLT-ON CIRCUIT BREAKERS, REPLACEABLE WITHOUT DISTURBING ADJACENT UNITS.

EXECUTION

INSTALL FILLER PLATES IN UNUSED SPACES.

INSTALLATION INSTALL PANELBOARDS AND ACCESSORIES ACCORDING TO NEMA PB 1.1. MOUNT TOP OF TRIM 90 INCHES (2286 MM) ABOVE FINISHED FLOOR UNLESS OTHERWISE INDICATED MOUNT PANELBOARD CABINET PLUMB AND RIGID WITHOUT DISTORTION OF BOX. MOUNT RECESSED PANELBOARDS WITH FRONTS UNIFORMLY FLUSH WITH WALL FINISH AND MATING

COMPLY WITH NECA 1 IDENTIFICATION PANELBOARD NAMEPLATES: LABEL EACH PANELBOARD WITH A NAMEPLATE COMPLYING WITH REQUIREMENTS FOR IDENTIFICATION SPECIFIED IN SECTION "ELECTRICAL

PRODUCT DATA: FOR EACH TYPE OF PRODUCT INDICATED. INCLUDE CONSTRUCTION DETAILS, MATERIAL, DIMENSIONS, DESCRIPTIONS OF INDIVIDUAL COMPONENTS, AND FINISHES FOR SPARE-FUSE CABINETS. INCLUDE THE FOLLOWING FOR EACH FUSE TYPE

INDICATED: QUALITY ASSURANCE ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES: LISTED AND LABELED AS DEFINED IN NFPA 70, BY A QUALIFIED TESTING AGENCY, AND MARKED FOR INTENDED LOCATION AND APPLICATION.

COMPLY WITH NEMA FU 1 FOR CARTRIDGE FUSES. COMPLY WITH NFPA 70.

PRODUCTS

MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING: COOPER BUSSMANN, INC. EDISON FUSE, INC.

FERRAZ SHAWMUT, INC. LITTELFUSE, INC. CARTRIDGE FUSES

CHARACTERISTICS: NEMA FU 1, NONRENEWABLE CARTRIDGE FUSES WITH VOLTAGE RATINGS CONSISTENT WITH CIRCUIT VOLTAGES.

EXECUTION

FUSE APPLICATIONS CARTRIDGE FUSES:

SERVICE ENTRANCE: CLASS RK1, FAST ACTING (0-600A); CLASS L, FAST ACTING (600A AND GREATER).

PRODUCT DATA: FOR EACH TYPE OF LIGHTING FIXTURE, ARRANGED IN ORDER OF FIXTURE DESIGNATION. INCLUDE DATA ON FEATURES, ACCESSORIES, FINISHES, AND THE

PHYSICAL DESCRIPTION OF LIGHTING FIXTURE INCLUDING DIMENSIONS. EMERGENCY LIGHTING UNITS INCLUDING BATTERY AND CHARGER.

ENERGY-FEFICIENCY DATA PHOTOMETRIC DATA, IN IESNA FORMAT, BASED ON LABORATORY TESTS OF EACH

LIGHTING FIXTURE TYPE, OUTFITTED WITH LAMPS, BALLASTS, AND ACCESSORIES IDENTICAL TO THOSE INDICATED FOR THE LIGHTING FIXTURE AS APPLIED IN THIS OPERATION AND MAINTENANCE DATA: FOR LIGHTING EQUIPMENT AND FIXTURES TO INCLUDE IN EMERGENCY, OPERATION, AND MAINTENANCE MANUALS.

WARRANTIES: SPECIAL WARRANTIES SPECIFIED IN THIS SECTION.

QUALITY ASSURANCE ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES: LISTED AND LABELED AS DEFINED IN NFPA 70, ARTICLE 100, BY A TESTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION, AND MARKED FOR INTENDED USE. COMPLY WITH NFPA 70.

COORDINATION COORDINATE LAYOUT AND INSTALLATION OF LIGHTING FIXTURES AND SUSPENSION SYSTEM WITH OTHER CONSTRUCTION THAT PENETRATES CEILINGS OR IS SUPPORTED BY THEM, INCLUDING HVAC EQUIPMENT, FIRE-SUPPRESSION SYSTEM, AND PARTITION ASSEMBLIES.

12. FIRE-ALARM SYSTEM (DEFERRED SUBMITTAL)

Shop Drawings: For fire-alarm system. Include plans, elevations, sections, details, and attachments to other work. Provide voltage drop and battery-size calculations. Show all devices and cable connections

QUALITY ASSURANCE Installer Qualifications: Personnel shall be trained and certified by manufacturer for installation of units required for this Project. Obtain fire-alarm system from single source from single manufacturer. Components shall be compatible with, and operate as, an extension of existing system. All components shall be listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended

location and application. PRODUCTS

MANUFACTURERS Manufacturers: Provide products by one of the following: Bosch Security Systems.

Fire Control Instruments, Inc.; a Honeywell company. Fire Lite Alarms; a Honeywell company. Gamewell; a Honeywell company. NOTIFIER; a Honeywell company Siemens Building Technologies, Inc.; Fire Safety Division.

SYSTEMS OPERATIONAL DESCRIPTION

SimplexGrinnell LP; a Tyco International company.

Fire-alarm signal initiation shall be by smoke detectors and duct smoke detectors. Fire-alarm signal shall continuously operate alarm-notification appliances, identify alarm at the fire-alarm control unit and remote annunciators, transmit an alarm signal to the remote alarm receiving station, switch heating, ventilating, and air-conditioning equipment controls to fire-alarm mode, and record events in the system memory

System trouble signal shall be initiated by open circuits, shorts, and grounds in designated circuits; opening, tampering with, or removing alarm-initiating and supervisory signal-initiating devices; loss of primary power at fire-alarm control unit; ground or a single break in fire-alarm control unit internal circuits; abnormal ac voltage at fire-alarm control unit: a break in standby battery circuitry: failure of battery charging: or an abnormal position of any switch at fire-alarm control unit or annunciator. System Trouble and Supervisory Signal Actions shall initiate notification appliance and annunciate at

fire-alarm control unit. FIRE-ALARM CONTROL UNIT Field-programmable, microprocessor-based, modular, power-limited design with electronic modules, complying with UL 864 and listed and labeled by an NRTL. Furnish with addressable control circuits for operation of mechanical equipment and elevator recall capabilities as required. Continuously adjustable slider; with single-pole or three-way switching module. Initiating devices, notification appliances, signaling lines, trouble signals, supervisory and digital alarm communicator transmitters shall be powered by 24-V dc source. Sealed lead calcium batteries shall be furnished for

SYSTEM SMOKE DETECTORS Photoelectric Smoke Detectors: Detector address shall be accessible from fire-alarm control unit and shall be able to identify the detector's location within the system and its sensitivity setting. Duct Smoke Detectors: Photoelectric type complying with UL 268A.

Weatherproof Duct Housing Enclosure: NEMA 250, Type 4X; NRTL listed for use with the supplied

detector. Furnish with sampling tubes and relay fan shutdown. NOTIFICATION APPLIANCES Combination devices shall be factory-integrated audible and visible devices in a single-mounting Horns: Electric-vibrating-polarized type, 24-V dc; with provision for housing the operating mechanism

behind a grille. Comply with UL 464. Horns shall produce a sound-pressure level of 90 dBA, measured

Visible Notification Appliances: Xenon strobe lights comply with UL 1971, with clear or nominal white

polycarbonate lens mounted on an aluminum faceplate. The word "FIRE" is engraved in minimum

10 feet (3 m) from the horn, using the coded signal prescribed in UL 464 test protocol.

1-inch- (25-mm-) high letters on the lens. Furnish with white faceplate and 15/30/75/110 cd field selectable output

secondary power

EXECUTION

EQUIPMENT INSTALLATION Comply with NFPA 72 for installation of fire-alarm equipment. Equipment Mounting: Install fire-alarm control unit and annuciator on finished floor with tops of cabinets not more than 72 inches (1830 mm) above the finished floor. Audible Alarm-Indicating Devices: Install 80" above the floor or 6" below ceiling, whichever is lower.

Visible Alarm-Indicating Devices: Install adjacent to each alarm bell or alarm horn and at 80" above the floor or 6" below ceiling, whichever is lower. Manual Fire Alarm Boxes: Install at 48" to the top of the device.

Install bells and horns on flush-mounted back boxes with the device-operating mechanism concealed

Gladfelter Engineering Group

and E. All other drawings should be considered the work of others. Further, drawings in this project set may contain drawing information, including but not limited to: architectural plans, sections and elevations, site plans and surveys and other information pertinent to showing the mechanical, plumbing and electrical work which is furnished by others, generally indicated by screened or light type. Gladfelter Engineering Group assumes no responsibility or liability for the accuracy or regulatory compliance for work prepared by others even though shown on MPE drawings. Gladfelter Engineering Group assumes responsibility only for the design of mechanical, plumbing and electrical disciplines contained herein, generally indicated in bold type.

Gladfelter Engineering Group assumes design responsibility for this project for only the mechanical, plumbing and electrical disciplines with drawing sheet number beginning with M, P

CONSTRUCTION

President & CEO

Kevin Campbell Senior Architect

8807 Monrovia Street Lenexa, Kansas 66215

Email:

913.322.8882 Phone: 913.322.8886

THIS DRAWING has been prepared by the Architect, or prepared under his direct supervision as an instrument of service and is intended for use only on this project. Al Drawings, Specifications, ideas and designs, including the overall layout, form, arrangement, and composition of spaces and elements portrayed, constitute the original, unpublished Work of the Architect. Any reproduction, use, or disclosure of the information contained herein without the written consent of the Architect is strictly prohibited.

kevin@dev-inc.com

COMPLY WITH all laws, codes, ordinances and regulations with authorities having jurisdiction and with requirements of the Landlord, if applicable. Do not start Work until all permits and required approvals are obtained

> **(** S

 \circ

GLADFELTER NUMBER -2000150421 06/06/2025

DRAWING ISSUANCE

PROJECT NO. 231206