

TEMPORARY BRACING GENERAL NOTES

1. ALL TEMPORARY STRUCTURAL WORK SHALL CONFORM TO THE 2025 WISCONSIN COMMERCIAL BUILDING CODE. ALL GOVERNING STANDARDS LISTED IN THESE NOTES SHALL BE THE EDITION REFERENCED IN THIS GOVERNING CODE.
2. THE TEMPORARY BRACING DETAILS SHOWN ON THESE DRAWINGS REPRESENT THE MINIMUM RECOMMENDED MEASURES TO PROVIDE OUT OF PLAN LATERAL STABILIZATION OF THE WEST WALL OF THE ANNEX.
3. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE MEANS, METHODS, SEQUENCING, INSTALLATION, MAINTENANCE, MONITORING AND REMOVAL OF ALL TEMPORARY SHORING, BRACING AND STABILIZATION SYSTEMS.
4. TEMPORARY BRACING SHALL REMAIN IN PLACE UNTIL PERMANENT STABILIZATION REPAIRS OR REINFORCING HAVE BEEN COMPLETED AND ARE CAPABLE OF SUPPORTING ALL REQUIRED LOADS.
5. DIMENSIONS AND ELEVATIONS OF EXISTING CONSTRUCTION GIVEN IN STRUCTURAL DRAWINGS ARE BASED ON INFORMATION CONTAINED IN VARIOUS ORIGINAL DESIGN AND CONSTRUCTION DOCUMENTS PROVIDED BY THE OWNER, AND LIMITED FIELD OBSERVATIONS AND MEASUREMENTS. THE CONTRACTOR SHALL VERIFY ALL INFORMATION PERTAINING TO EXISTING CONDITIONS BY ACTUAL MEASUREMENT AND OBSERVATION AT THE SITE. ALL DISCREPANCIES BETWEEN ACTUAL CONDITIONS AND THOSE SHOWN IN THE CONTRACT DOCUMENTS SHALL BE REPORTED TO THE ENGINEER OF RECORD FOR EVALUATION BEFORE THE AFFECTED CONSTRUCTION IS PUT IN PLACE.
6. PROTECT ADJACENT HISTORIC MATERIALS FROM DAMAGE DURING INSTALLATION OF TEMPORARY BRACING.

STRUCTURAL STEEL

1. ALL STRUCTURAL STEEL WORK SHALL CONFORM TO THE FOLLOWING GOVERNING STANDARDS:
- A. AISC 360 "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS".
 - B. AISC 303 "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES".
 - C. AMERICAN WELDING SOCIETY (AWS D1.1) "STRUCTURAL WELDING CODE - STEEL".
 - D. RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS (RCSC) "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS".
2. ALL STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS:
- A. WIDE FLANGE BEAMS, COLUMNS, AND STRUCTURAL TEES: ASTM A992.
 - B. HOLLOW STRUCTURAL SECTIONS: ASTM A500, GRADE C.
 - C. STRUCTURAL PIPE SECTIONS: ASTM A53, GRADE B.
 - D. CHANNELS, ANGLES, AND PLATES: ASTM A36 UNLESS OTHERWISE NOTED.
 - E. BOLTED CONNECTIONS SHALL BE PER ASTM F3125, GRADES ARE TO BE SELECTED AS FOLLOWS:
 - a. STANDARD BEAM TO BEAM/GIRDER: ASTM F3125, GRADES A325, F1852, A490 OR F2280 BOLTS IN SNUG-TIGHTENED JOINTS (3/4" DIAMETER MINIMUM WITH HARDENED WASHERS).
 - b. PER AWS D1.1, ALL BOLTS SHALL BE INSTALLED AS PRETENSIONED HIGH-STRENGTH BOLTS AND MEET THE REQUIREMENTS FOR SURFACE PREPARATION FOR SLIP CRITICAL CONNECTIONS WITH CLASS A SLIP COEFFICIENT OR HIGHER. THE AVAILABLE SHEAR STRENGTH OF BOLTED JOINTS USING STANDARD HOLES SHALL BE CALCULATED AS THAT FOR BEARING TYPE JOINTS.
3. STEEL CONNECTION SHALL BE STANDARD AISC FRAMED BEAM CONNECTIONS, AND SHALL BE COMPLETED BY AN EXPERIENCED STEEL DETAILER.
4. MINIMUM WELD SIZE IS 1/4" FILLET UNLESS NOTED OTHERWISE.
5. ALL BEAMS EXCEPT CANTILEVER BEAMS SHALL BE FABRICATED AND INSTALLED WITH NATURAL CAMBER UP. CANTILEVER BEAMS SHALL BE FABRICATED AND INSTALLED SO THAT NATURAL CAMBER RAISES CANTILEVER END.
6. FIELD CUTTING OR BURNING OF STEEL IS PROHIBITED EXCEPT WITH THE EXPRESS WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD. (IN WHICH CASE ALL BURNING OF STEEL MUST CONFORM TO THE THERMAL CUTTING REQUIREMENTS OF AISC AND AWS)
7. WELDING SHALL BE PERFORMED BY CERTIFIED, AWS-QUALIFIED WELDERS. WELDING ELECTRODES FOR CARBON STEEL SHALL BE AWS E5.1, CLASS E70XX. FOR ASTM A572 GRADE 50 KSI PLATE USE ELECTRODE E7018 OR APPROVED EQUAL.
8. SHOP PAINT EXTERIOR EXPOSED STEEL MEMBERS, STEEL MEMBERS NOT ENCASED IN CONCRETE OR SPRAY FIREPROOFED, AND ALL STEEL MEMBERS AT THE EXTERIOR WALL WITH TNEMEC V10-99.
9. FIELD PAINT ALL EXTERIOR EXPOSED MEMBERS WITH TNEMEC V530 OMNITHANE OR APPROVED EQUAL.
10. SHOP AND ERECTION DRAWINGS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL. NO FABRICATION OF STEEL SHALL COMMENCE WITHOUT APPROVED SHOP DRAWINGS.
11. PROVIDE MECHANICALLY GALVANIZED BOLTS FOR EXTERIOR APPLICATIONS.

POST-INSTALLED ADHESIVE AND MECHANICAL ANCHORS

1. POST INSTALLED ANCHORAGE SHALL BE INSTALLED BY QUALIFIED PERSONNEL PER THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII), AS INCLUDED IN THE ANCHOR PACKAGING, TO INTACT BASE MATERIAL. INSTALLATION OF ANCHORS SHALL BE CARRIED OUT BY AN INSTALLER TRAINED TO INSTALL THE SPECIFIED ANCHORS. NOTIFY ENGINEER OF RECORD PRIOR TO INSTALLATION IF BASE MATERIAL CONDITION DEVIATES FROM STRUCTURAL DRAWINGS OR ASSUMPTIONS AND CONDITIONS OF THE MPII. ALL HOLES SHALL BE DRY AND HAMMER DRILLED UNLESS OTHERWISE NOTED, AND ALL CONCRETE BASE MATERIAL TO RECEIVE ADHESIVE ANCHORS SHALL HAVE A MINIMUM AGE OF 21 DAYS.
2. INSTALLATION OF ADHESIVE ANCHORS IN A HORIZONTAL OR UPWARDLY INCLINED ORIENTATION AND SUPPORTING A SUSTAINED TENSION LOAD SHALL BE PERFORMED BY A CERTIFIED ADHESIVE ANCHOR INSTALLER. CERTIFICATION SHALL INCLUDE WRITTEN AND PERFORMANCE TESTS IN ACCORDANCE WITH THE ACI/CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM OR APPROVED EQUAL. PRIOR TO THE COMMENCEMENT OF INSTALLING ANCHORS PROVIDE OWNER AND ENGINEER OF RECORD WITH DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO INSTALL HORIZONTAL OR UPWARDLY INCLINED ADHESIVE ANCHORS SUPPORTING SUSTAINED TENSION LOADS ARE TRAINED AND CERTIFIED.
- A. OVERHEAD ADHESIVE ANCHORS MUST BE INSTALLED USING THE PISTON PLUG SYSTEM SPECIFIED BY THE MPII AND PRODUCED BY THE CORRESPONDING MANUFACTURER FOR THE ANCHOR SYSTEM BEING INSTALLED.
3. EXISTING REINFORCING BARS IN THE STRUCTURE MAY CONFLICT WITH SPECIFIC ANCHOR LOCATIONS. REINFORCING BARS SHALL NOT BE CUT WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER OF RECORD. UNLESS NOTED ON THE DRAWINGS THAT THE EXISTING REBARS CAN BE CUT, THE CONTRACTOR SHALL REVIEW THE EXISTING STRUCTURAL DRAWINGS AND SHALL UNDERTAKE TO LOCATE THE POSITION OF THE REINFORCING BARS BY A MEANS APPROVED BY THE ENGINEER OF RECORD.
4. ANCHOR CAPACITY IS DEPENDENT UPON SPACING BETWEEN ADJACENT ANCHORS, PROXIMITY OF ANCHORS TO EDGE OF CONCRETE, AND EMBEDMENT DEPTH INTO THE SUBSTRATE. INSTALL ANCHORS IN ACCORDANCE WITH SPACING, EDGE CLEARANCES, AND EMBEDMENT DEPTHS INDICATED ON THE DRAWINGS.
5. UNLESS OTHERWISE INDICATED, POST INSTALLED ANCHORAGE SHALL BE ADHESIVE TYPE HILTI HIT-HY 200-R INTO CONCRETE OR HILTI HIT-HY 270 INTO BRICK MASONRY. GROUT FILLED CMU OR UNGROUTED CMU BASE MATERIAL PROVIDE MESH SCREEN IN UNGROUTED CMU, UNREINFORCED MASONRY CONSTRUCTION, AND BRICK MASONRY WITH HOLES OR VOIDS.
6. SUBSTITUTION REQUESTS FOR ALTERNATE ANCHORAGE PRODUCTS SHALL BE SUBMITTED TO ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO USE. THIS SHALL INCLUDE MANUFACTURER PRODUCT DATA AND CALCULATIONS DEMONSTRATING THAT THE PROPOSED SUBSTITUTE CAN ACHIEVE THE PERFORMANCE VALUES OF THE SPECIFIED PRODUCT. ANCHOR CAPACITY USED IN DESIGN SHALL BE BASED ON THE TECHNICAL DATA PUBLISHED BY THE MANUFACTURER OR SUCH OTHER METHOD AS APPROVED BY THE ENGINEER OF RECORD. SUBSTITUTIONS WILL BE EVALUATED BY THEIR HAVING AN ICC-ES EVALUATION REPORT SHOWING COMPLIANCE WITH THE RELEVANT BUILDING CODE, SEISMIC USE, LOAD RESISTANCE, INSTALLATION CATEGORY, AND AVAILABILITY OF MPII. ADHESIVE ANCHOR EVALUATION WILL ALSO CONSIDER CREEP, IN-SERVICE TEMPERATURE AND INSTALLATION TEMPERATURE AND MUST PROVIDE INFORMATION ON THESE ITEMS. SUBSTITUTION REQUESTS FOR ALTERNATE PRODUCTS MUST BE APPROVED IN WRITING BY THE ENGINEER OF RECORD PRIOR TO USE.

FRAMING LUMBER

1. ALL FRAMING LUMBER WORK SHALL CONFORM TO THE FOLLOWING GOVERNING STANDARDS:
- A. AMERICAN WOOD COUNCIL "WOOD FRAME CONSTRUCTION MANUAL FOR ONE- AND TWO-FAMILY DWELLINGS".
 - B. AMERICAN WOOD COUNCIL "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION", "NDS SUPPLEMENT: DESIGN VALUES FOR WOOD CONSTRUCTION", AND "SPECIAL DESIGN PROVISIONS FOR WIND AND SEISMIC".
2. FRAMING LUMBER SHALL HAVE EACH PIECE GRADE STAMPED, SHALL BE SURFACED DRY (EXCEPT STUDS, WHICH SHALL BE KILN DRIED) AND SHALL CONFORM TO THE FOLLOWING SPECIES AND GRADES:
- A. RAFTERS AND JOISTS: DOUGLAS FIR-LARCH #2, SPRUCE PINE FIR #2, OR HEM FIR #2
 - B. BEAMS, GIRDERS AND HEADERS: DOUGLAS FIR-LARCH #1, SPRUCE PINE FIR #1, OR HEM FIR #1
 - C. STUDS AND PLATES: DOUGLAS FIR-LARCH STUD GRADE, SPRUCE PINE FIR STUD GRADE, OR HEM FIR STUD GRADE
3. TIMBER LUMBER SHALL CONFORM TO THE FOLLOWING SPECIES AND GRADES:
- A. POST AND TIMBER: DOUGLAS FIR-LARCH #1, SPRUCE PINE FIR #1, OR HEM FIR #1
 - B. BEAMS AND STRINGERS: DOUGLAS FIR-LARCH #1, SPRUCE PINE FIR #1, OR HEM FIR #1
4. FASTENING SHALL BE IN ACCORDANCE WITH THE MOST RESTRICTIVE OF THE GOVERNING LOCAL/STATE BUILDING CODE AND THE MANUFACTURER'S RECOMMENDED FASTENING SCHEDULES.
5. BUILT UP BEAMS LESS THAN 8" DEEP SHALL BE SPIKED TOGETHER WITH (2) 16d NAILS @16" ON CENTER. BUILT UP BEAMS GREATER THAN 8" DEEP SHALL BE SPIKED TOGETHER WITH (3) 16d NAILS @16" ON CENTER.
6. NO NEW OR EXISTING JOISTS SHALL BE CUT OR NOTCHED WITHOUT APPROVAL.

STANDARD ABBREVIATIONS

ADD'L ADDITIONAL
ADJ. ADJACENT
A/E DESIGN TEAM OF RECORD
ALT. ALTERNATE
ANCH. ANCHOR
APPROX. APPROXIMATE/APPROXIMATELY
ARCH. ARCHITECT/ARCHITECTURAL
BLDG. BUILDING
BM. BEAM
B.O. BOTTOM OF
BOT. BOTTOM
BRG. BEARING
BSMT. BASEMENT
CANT. CANTILEVER
CFS. COLD FORMED STEEL
C.I.P. CAST IN PLACE
C.J. CONTRACTION JOINT
CLG. CEILING
CLR. CLEAR
CMU CONCRETE MASONRY UNIT
COL. COLUMN
COMP. COMPOSITE
CONC. CONCRETE
CONST. CONSTRUCTION
CONT. CONTINUOUS
COORD. COORDINATE/COORDINATION
CONTR. CONTRACTOR
COTR. CONTRACT OFFICER'S
TECHNICAL REPRESENTATIVE
CTR. CENTER
DBL. DOUBLE
DEMO DEMOLITION/DEMOLISH
DIA. DIAMETER
DIAG. DIAGONAL
DIM. DIMENSION
D.L. DEAD LOAD
DN. DOWN
DTL. DETAIL
DWG(S) DRAWING(S)
DWL. DOWEL
EA. EACH
E.F. EACH FACE
E.J. EXPANSION JOINT
EL. ELEVATION
ELEC. ELECTRICAL
ELEV. ELEVATOR
EMBED. EMBEDMENT
E.O. EDGE OF

ENGR. ENGINEER
E.O.R. ENGINEER OF RECORD
E. EQUAL
E.S. EACH SIDE
E.W. EACH WAY
EXP. EXPANSION
EXT. EXTERIOR
FDN. FOUNDATION
FIN. FINISH
FLR. FLOOR
FRMG. FRAMING
F.S. FAR SIDE
FT. FEET
FT.G. FOOTING
GAGE
GALV. GALVANIZED
G.B. GRADE BEAM
HDR. HEADER
HGR. HANGER
HORIZ. HORIZONTAL
H.P. HIGH POINT
HT. HEIGHT
HVAC HEATING, VENTILATION, & AIR CONDITIONING
I.D. INSIDE DIAMETER
I.F. INSIDE FACE
I.J. ISOLATION JOINT
INFO INFORMATION
INT. INTERIOR
JT. JOINT
K. KIP
LB. POUND
DIA. LIVE LOAD
LLB. LONG LEGS BACK-TO-BACK
LLH. LONG LEG HORIZONTAL
LLV. LONG LEG VERTICAL
LP. LOW POINT
L.W. LONG WAY
L.W. LIGHTWEIGHT
MAS. MASONRY
MAX. MAXIMUM
MECH. MECHANICAL
MEP MECH. , ELECT. , PLUMBING, & FIRE PROTECTION
MFR. MANUFACTURER
MIN. MINIMUM
MISC. MISCELLANEOUS
M.O. MASONRY OPENING
MPII MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS
N.F. NEAR FACE
N.I.C. NOT IN CONTRACT

STANDARD ABBREVIATIONS FOR EXISTING STRUCTURES

C.I. CAST IRON
(E) EXISTING MEMBER OR DIMENSION
EXIST. EXISTING
T.C. TERRAZZOTTA
U.P. UNDERPINNING
V.I.F. VERIFY IN FIELD

STANDARD ABBREVIATIONS FOR WOOD STRUCTURES

NO. NUMBER
N.S. NEAR SIDE
ACT. ACTUAL
GLULAM GLUE LAMINATED TIMBER
LSL LAMINATED STRAND LUMBER
LVL LAMINATED VENEER LUMBER
NOM. NOMINAL
PSL PARALLEL STRAND LUMBER
P.T. PRESERVATIVE TREATED
R.O. ROUGH OPENING
SQ. SQUARE
T&G TONGUE & GROOVE

LEGEND

EXISTING WALL (SEE NOTES FOR MATERIAL)

WALL BELOW

EXISTING ELEMENT TO BE DEMOLISHED

STEEL COLUMN

WOOD COLUMN

EXISTING WOOD COLUMN

COLUMN ABOVE / BELOW

HANGER COLUMN ABOVE / BELOW

EXISTING WOOD BEAM

WOOD BEAM

EXISTING WOOD JOIST

WOOD JOIST

EXISTING STEEL BEAM

STEEL BEAM

EXISTING BEAM TO BE DEMOLISHED

STEEL LINTEL (SEE SCHEDULE)

STEEL BRACING

LEDGER ANGLE (SEE DETAIL)

SLOPED STEEL BEAM (TAIL INDICATES HIGH END)

BENT STEEL FRAMING

SHEAR CONNECTION

MOMENT CONNECTION

STEEL BEAM WALL PLATE CONNECTION (SEE DETAIL)

BEAM BEARING PLATE IN CONCRETE OR MASONRY (SEE DETAIL)

RAMP/SLOPED FLOOR (TAIL INDICATES HIGH END)

STEP IN FLOOR

TOP OF FLOOR ELEVATION

SPOT ELEVATION

FRAMING ELEVATION / WALL ELEVATION

COLUMN LINE

KEYNOTE

REVISION

PROPERTY LINE

TOP OF FRAMING ELEVATION RELATIVE TO DATUM

Project Title

Turner Hall Annex
West Wall Temporary
Stabilization

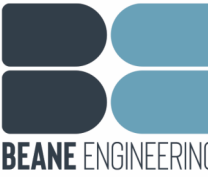
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Issuance

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1	07/27/2026	PERMIT SET

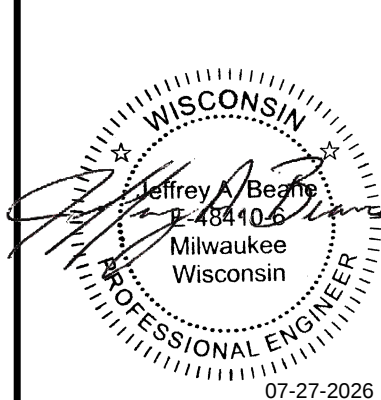
Structural engineer
Beane Engineering
231 E. Buffalo Street - Suite 301
Milwaukee, WI 53202
office: 414.914.9330
mobile: 917.31837004



sheet title

GENERAL NOTES &
LEGEND

seal & signature



date

07/27/2026

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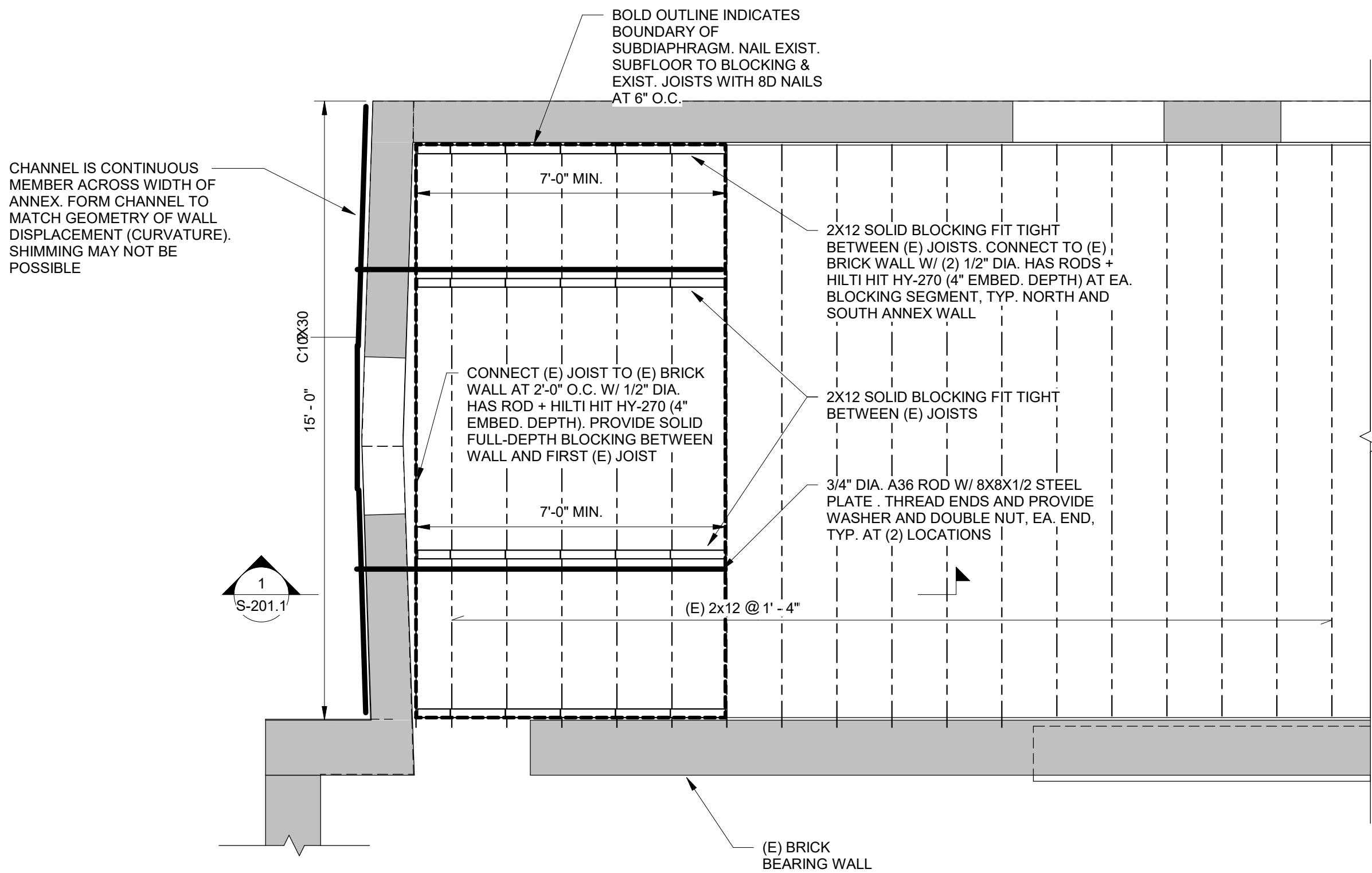
S-001.1

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SHEET LIST - CHANNELS

SHEET NUMBER	SHEET NAME
S-001.1	GENERAL NOTES & LEGEND
S-101.1	PARTIAL SECOND FLOOR & ROOF ANNEX FRAMING PLANS
S-201.1	BUILDING SECTIONS & ISOMETRIC

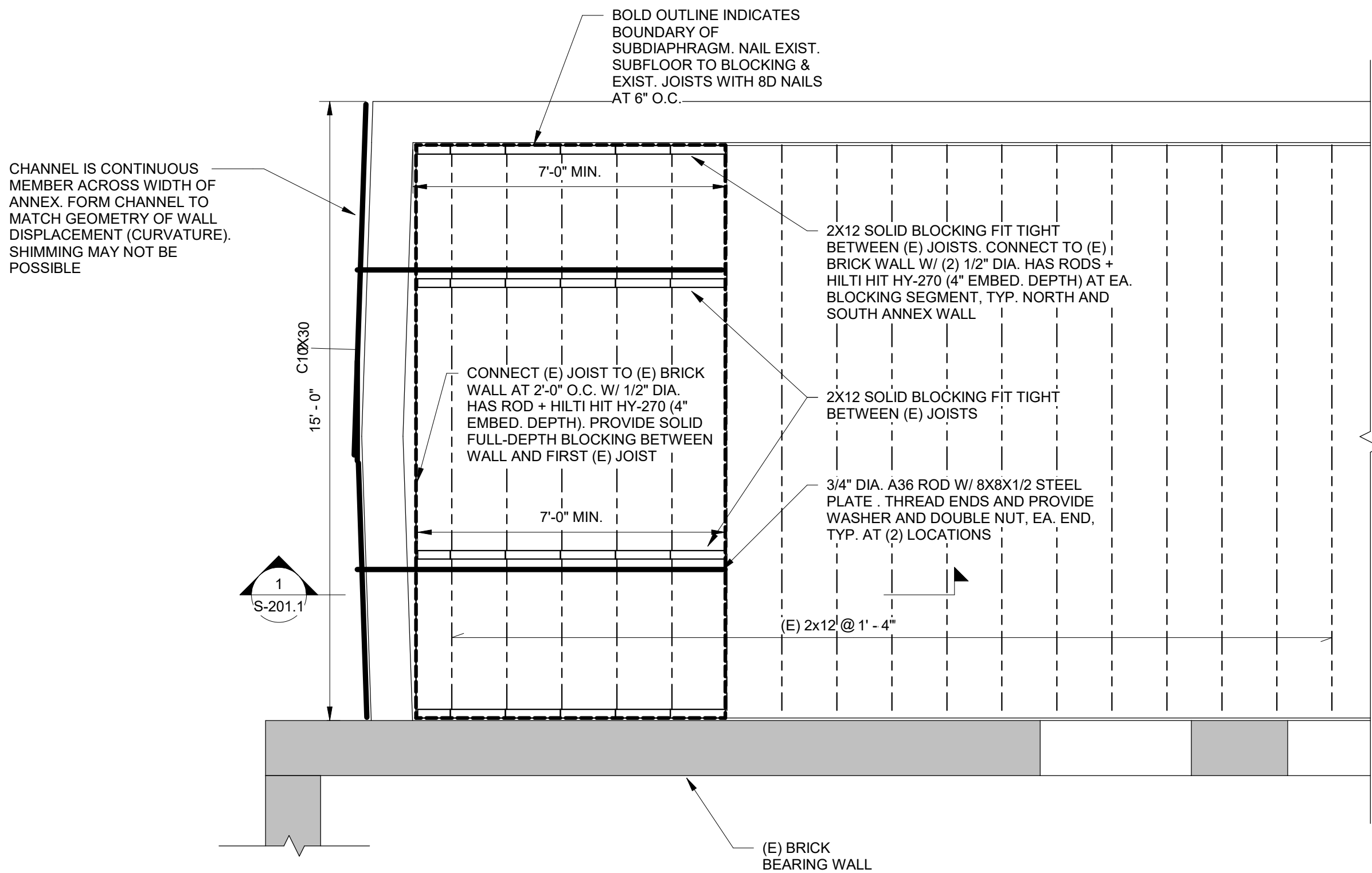


1 PARTIAL SECOND FLOOR ANNEX FRAMING PLAN

S-101.1 3/8" = 1'-0"

PLAN NOTES:

- REFER TO S-001 FOR TEMPORARY BRACING GENERAL NOTES.
- TEMPORARY STABILIZATION SHALL BE INSTALLED IN A MANNER THAT MINIMIZES DAMAGE TO HISTORIC MATERIALS AND PERMITS REMOVAL WITHOUT UNNECESSARY ALTERATION OF HISTORIC FABRIC.
- EXISTING HISTORIC MATERIALS SHALL NOT BE CUT, DRILLED, OR REMOVED EXCEPT WHERE SPECIFICALLY APPROVED BY THE STRUCTURAL ENGINEER AND OWNER.
- WERE PRACTICAL USE BEARING PLATES, TIMBER BLOCKING, OR OTHER MEASURES TO DISTRIBUTE LOADS AND PREVENT LOCALIZED DAMAGE TO HISTORIC MASONRY OR TIMBER.
- SCOPE OF WORK PRESENTED IS FOR TEMPORARY OUT OF PLANE LATERAL STRUCTURAL STABILIZATION OF THE WEST WALL OF THE ANNEX. ADDITIONAL COORDINATION IS REQUIRED BY GENERAL CONTRACTOR FOR ARCHITECTURAL FINISH, ELECTRICAL AND OTHER REMOVALS TO MAKE STRUCTURE SHOWN ACCESSIBLE.
- THE ENGINEERED DRAWINGS DO NOT IMPLY BEANE ENGINEERING HAS INSPECTED THE COMPLETED TEMPORARY STRUCTURE.
- THE CONTRACTOR SHALL PROVIDE OPTICAL MONITORING BEFORE ANY WORK COMMENCES AND AFTER INSTALLATION OF TEMPORARY BRACING. OPTICAL MONITORING SHALL BE PROVIDED IN ANNEX LOCATIONS PERFORMED MAY-AUGUST 2024, MINIMUM.



3 PARTIAL ROOF ANNEX FRAMING PLAN

S-101.1 3/8" = 1'-0"

Project Title

Turner Hall Annex
West Wall Temporary
Stabilization

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Structural engineer

Beane Engineering

231 E. Buffalo Street - Suite 301

Milwaukee, WI 53202

office: 414.914.9330

mobile: 917.31837004



sheet title

PARTIAL SECOND
FLOOR & ROOF ANNEX
FRAMING PLANS

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date

07/27/2026

scale

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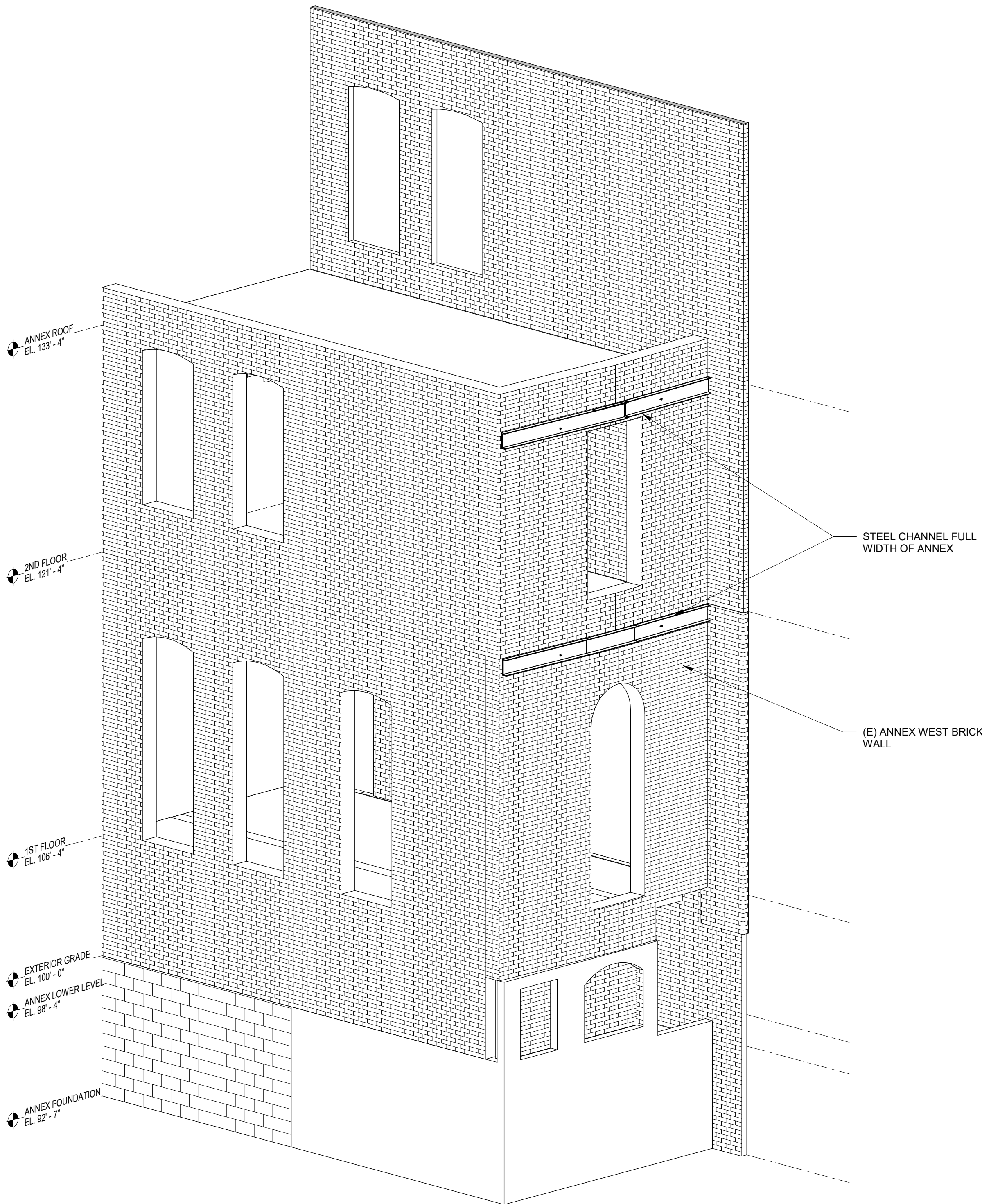
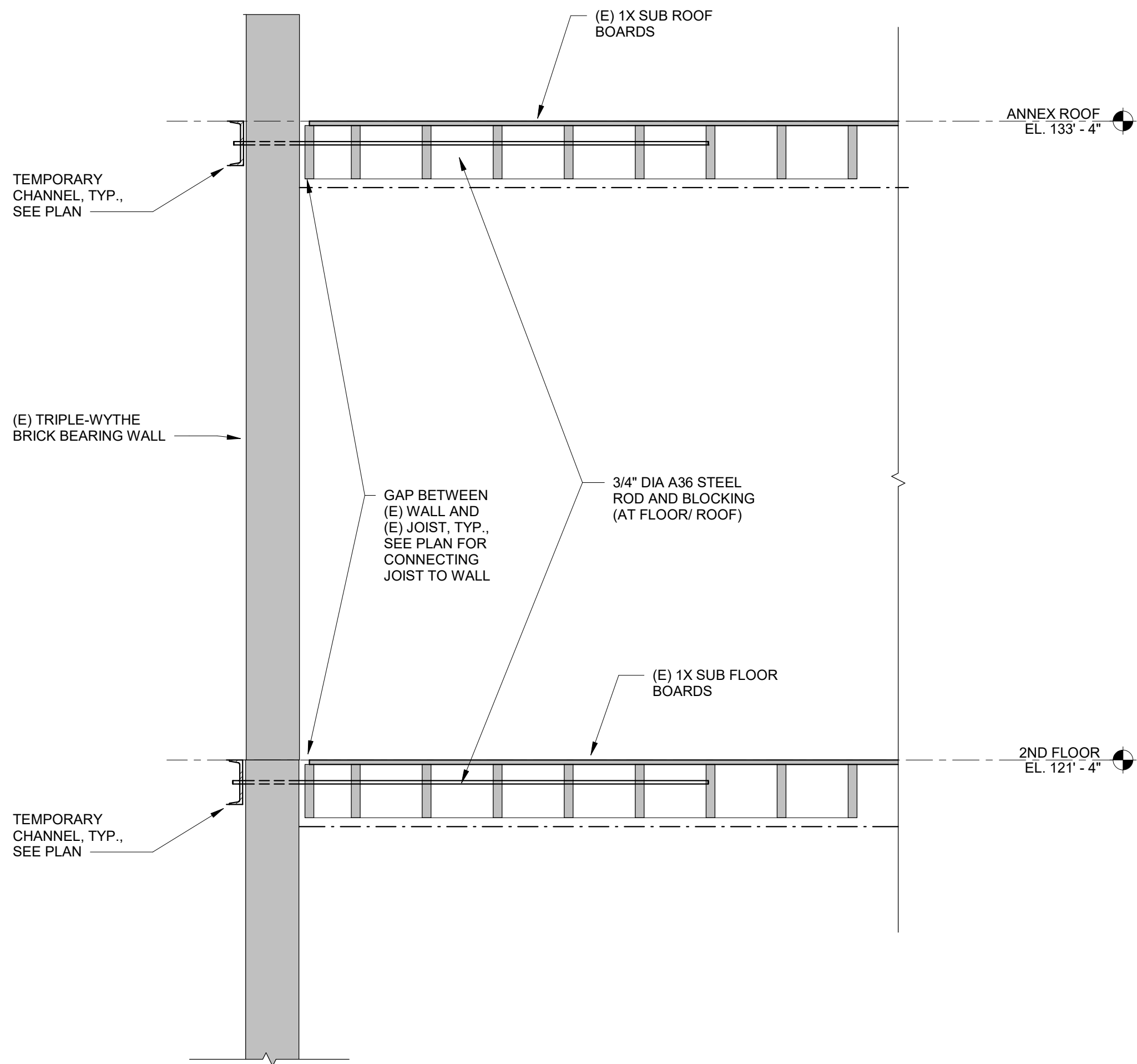


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S-101.1

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NOTE: ISOMETRIC IS DIAGRAMMATIC ONLY FOR REPRESENTATION OF TEMPORARY STEEL VISIBLE AT EXTERIOR WALL.

1 SECTION
S-201.1 1/2" = 1'-0"

3 ANNEX ISOMETRIC
S-201.1

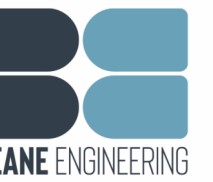
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Beane Engineering
231 E. Buffalo Street - Suite 301
Milwaukee, WI 53202
office: 414.914.9330
mobile: 917.31837004



sheet title
**BUILDING SECTIONS &
ISOMETRIC**

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